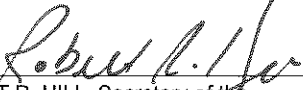


PI hereby certify that the following agenda was posted at least 72 hours prior to the time of the meeting so noticed below at 24251 Los Alisos Boulevard, Lake Forest, California.


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

**October 25, 2018
7:30 a.m.**

CALL MEETING TO ORDER – President Goldman

PLEDGE OF ALLEGIANCE – President Goldman

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 Christopher Magill, Truck Driver, for 15 years of service with the District.

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

No acknowledgement this month.

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

No acknowledgement this month.

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 minutes of the September 27, 2018 Board meeting.

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

There are no action items.

GENERAL MANAGER INFORMATION ITEMS

- 3. General Manager's Monthly Report (Report Included)

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

- 4. 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.

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

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

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

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

- a. SOCWA Board Meeting – October 4, 2018
- b. SOCWA Special Board Meeting – October 4, 2018
- c. SOCWA Engineering Committee Meeting – October 11, 2018

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

- a. MWDOC Planning/Operations Committee – October 1, 2018
- b. MWDOC/MET Directors Workshop – October 3, 2018
- c. MWDOC Administration & Finance Committee – October 10, 2018
- d. MWDOC Public Affairs & Legislation Committee – October 15, 2018
- e. MWDOC Board Meeting – October 17, 2018
- f. MWDOC Managers Meeting – October 25, 2018

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

- a. Report on the October 10, 2018 LAFCO meeting

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

There was no meeting.

11. **ISDOC Meetings** (Reference Material Included)

- a. Report on the October 2, 2018 ISDOC Executive Committee Meeting

12. **WACO Meetings** (Reference Material Included)

- a. Report on the October 5, 2018 WACO Meeting
- b. Report on the October 16, 2018 WACO Planning Committee meeting

13. **City Coordination Efforts**

There was no meeting.

COMMITTEE AND GENERAL INFORMATION

14. **Dates to Remember for October/November 2018** (Reference Material Included)

15. **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.

REGULAR SESSION

REPORT ON CLOSED SESSION (Legal Counsel)

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

ADJOURNMENT

Recommended Action: The Board will be requested to take action adjourning today's Board meeting to **Tuesday, November 20, 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
September 27, 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 September 27, 2018 at the El Toro Water District Administrative Offices, 24251 Los Alisos Boulevard, Lake Forest, California.

Vice President Vergara 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, GILBERT J. GRANITO, General Counsel, 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

There were no acknowledgements.

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

There were no acknowledgements.

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 August 16, 2018 Special Board meeting minutes.
2. Consider approving the August 21, 2018 Engineering Committee meeting minutes.
3. Consider approving the August 21, 2018 Finance Committee meeting minutes.
4. Consider approving the August 23, 2018 Board meeting minutes.

Director Freshley made a correction to the minutes, which the Board Secretary noted and will correct.

Motion: Director Freshley made a Motion, seconded by Director Monin, and unanimously carried across the Board to approve the Consent Calendar, with Director Freshley's suggested correction.

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.

Director/Committee Reporting

Director Adjarian stated that he attended the MWDOC/MET Directors workshop, the SOCWA Board meeting, WACO, a SCE Water conference, WACO Planning Committee, SOCWA Finance Committee, LF Chamber of Commerce meeting, and will be talking about the CA Water Fix on TV-6.

Director Monin stated that he attended WACO, ISDOC Executive Committee, MWDOC/MET Directors workshop, MWDOC Admin/Finance, MWDOC Planning/Operations, WACO Planning Committee, the LF Legislative luncheon, and the CSDA conference.

Vice President Vergara stated that he attended the MWDOC Planning/Operations meeting, MWDOC/MET Directors workshop, WACO, MWDOC Admin/Finance, MWDOC Board meeting, the Scott Colton Celebration of Life, the LF Legislative lunch meeting, and will be attending the memorial service for Wayne Clark.

Director Freshley stated that she attended WACO, LAFCO, SOCWA Board, SOCWA Finance, LF Legislative lunch meeting, Women in Water breakfast, and CSDA Governance Training,

President Goldman stated that he attended the SOCWA Board meeting, WACO, annual WaterReuse conference, the CASA Board retreat, and a meeting later today with IRWD as a follow-up to the SOCWA Board meeting, and the WEFTEC conference.

General Manager Action Items

R-6 Reservoir Sodium Hypochlorite Tank Replacement Project

Mr. Cafferty stated that the two 5,000 gallon Sodium Hypochlorite Storage Tanks at the R-6 Reservoir are nearly 20 years old and beginning to show signs of fatigue. He further stated that staff had several contractors take a look at them, and it was determined that they are unrepairable and the manufacturer recommends replacing the tanks due to leaks and internal wear.

President Goldman asked how to determine share of costs with MNWD and SMWD. Mr. Cafferty replied that the original agreement states that SMWD pays 25% of capital costs for the inlet/outlet system and MNWD pays 5%.

Director Monin asked what happens to the old tanks. Mr. Cafferty replied that there are certain protocols that have to be followed for disposal of the tanks.

Director Freshley asked if this project has to be staged. Mr. Cafferty replied yes, the contractor will drain and replace the tanks one at a time.

Mr. Cafferty stated that this project is a carry-over from last year's capital budget.

President Goldman asked for a Motion.

Motion: Director Adjarian made a Motion, seconded by Director Monin and unanimously carried across the Board that the Board authorize the District's General Manager to enter into a contract with S.S. Mechanical Construction Corp. in the amount of \$213,224.00 for construction of the R-6 Reservoir Sodium Hyperchlorite Tank Project.

Roll Call Vote:

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

ETWD Emergency Storage Analysis/Formation of a South Orange County Water Storage Coalition

Mr. Hill stated that there has been a lot of discussion about system and supply reliability, and the Orange County Water Reliability Study is still in progress. He further stated that staff attended a workshop last week on this topic.

Mr. Hill stated that some time ago a South County Water Reliability Study was done with MWDOC leading the effort. He further stated that it concluded that when it comes to a MET pipeline system break, it is probably going to be 2 weeks, but the more significant exposure would be to a Diemer outage. Mr. Hill

stated that MET has invested millions of dollars in improving reliability at the Diemer filtration plant in Yorba Linda.

Mr. Hill stated that based on MET's input, the goal or objective was to be able to withstand a 60-day interruption of the Diemer Filtration plant. He further stated that SMWD wants to form a South Orange County Water Storage Coalition.

Mr. Hill stated that staff will discuss with the Board whether we want to provide a non-binding letter of interest to SMWD in being part of the coalition. He further stated that SMWD would like to know a specific amount of storage we would be interested in.

Mr. Cafferty stated that the R-6 capacity is 275 million gallons (mg), and ETWD owns 124.5 mg, MNWD owns 13 mg, and SMWD owns 137.5 mg. He further stated that tank storage in the R-1 Reservoir is 3 mg, R-2 Reservoir is 2 mg, R-3 Reservoir is 2 mg, R-4 Reservoir is 3 mg, and R-5 Reservoir is 2 mg, for a total of 12 mg.

Director Freshley asked how much is a million gallons of water. Mr. Cafferty replied that approximately 325,000 gallons of water equal an acre foot.

Mr. Cafferty stated that the R-6 Reservoir at minimum operating level capacity is 268 mg, and ETWD's emergency capacity is 121 mg. He further stated that staff assumes tank emergency storage at 50% capacity or 6 mg, for a total storage of 127 mg.

Mr. Cafferty stated that staff evaluated 4 years of billing data from 2014-2018, and selected the 2017/18 demands for a conservative analysis. He further

stated that the analysis incorporates the impact of the Phase II Recycled Water Project offset of potable demands.

Mr. Cafferty stated that the sources of supply include the Diemer Treatment plant, and the Baker Water Treatment plant which takes water from the Colorado River. He further stated that storage analysis includes demand conditions such as winter, average daily demand, and summer.

Mr. Cafferty stated that ETWD can already meet a 60 day outage of MWD treated water supplies under winter conditions. He further stated that existing storage provides ETWD a reasonably good position relative to 60 day outage of MWD treated water supplies under average day conditions. Mr. Cafferty noted that far more aggressive conservation would be required to meet a 60 day outage in summer demand conditions.

Mr. Cafferty stated that potential storage and reliability projects in South County could include the Cadiz Water Bank project, the Strand Ranch project, the Doheny Desal project, and the Poseidon Desal project. He further stated that other projects include the South County Regional Interconnection, the EOCF #2 groundwater emergency pump-in, the Irvine Lake emergency supply to the Baker Treatment Plant, and the ETWD Phase III Recycled Water project.

Mr. Cafferty stated that SMWD is seeking a non-binding letter of interest and a specific amount of storage.

President Goldman asked what other agencies are signing up for the emergency storage coalition. Mr. Hill replied that staff will survey the neighboring agencies to see who is confirming commitments.

President Goldman suggested that the Board consider identifying 500 acre feet of storage in a non-binding letter of interest.

President Goldman asked for a Motion.

Motion: Director Adjarian made a Motion, seconded by Vice President Vergara and unanimously carried across the Board to authorize the District's General Manager to prepare and submit a non-binding letter of interest to SMWD to participate in the proposed South Orange County Water Storage Coalition for the amount of 500 acre feet of storage.

Roll Call Vote:

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

Proposed Ratification of a Revision to the Employee Handbook

Mr. Hill stated that in March 2018 the Employee Handbook was updated and approved by the Board to replace the existing manual in it's entirety with the labor laws updated.

Mr. Hill stated that steel-toed boots are required for the staff who work in the field. He further stated that boot prices have increased and that the boot allowance is not sufficient to cover the cost of the boots.

Mr. Hill stated that staff did an agency survey and the allowance is between \$200 and \$500 with the average allowance being \$320 per year.

President Goldman asked for a Motion.

Motion: Director Monin made a Motion, seconded by Director Adjarian and unanimously carried across the Board to ratify a revision to Section VI – Management/Employee Relations – Expenses and Expense Accounts of the Employee Handbook increasing the Safety Boot Allowance from \$200 to \$300 per year, retroactive to July 1, 2018.

Roll Call Vote:

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

MWDOC Legislative Policy Principles

Mr. Hill stated that every year the District contributes to MWDOC's lobbyists general fund budget. He further stated that MWDOC is asking for recommendations no later than Friday, October 5, 2018.

Mr. Hill stated that staff is not recommending providing MWDOC with suggested changes.

Director Freshley stated that she read the materials and agree with MWDOC's objectives. Director Adjarian stated that he also agreed.

President Goldman stated that there is no action needed on this proposal.

Resolution No. 18-9-2 Biennial Review of Conflict of Interest Code

Mr. Hill stated that this Code is reviewed every two years, and the only amendment is adding the Project Engineer as a position required to file a Form 700 since he is involved with Contractors. He further added that this position does not file with the FPPC.

President Goldman asked for a Motion.

Motion: Director Monin made a Motion, seconded by Director Freshley and unanimously carried across the Board to approve and adopt Resolution No. 18-9-2, and to authorize the Recording Secretary to disclose to the County Board of Supervisors office using e-disclosure that the District's Conflict of Interest Code will be amended in 2018.

Roll Call Vote:

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

Resolution No 18-9-3 Supporting Water Professionals Appreciation Week

Mr. Hill stated that Oct 6 thru 14th is California Water Professionals Appreciation Week. He further stated that the webpage will be expanded and we will use social media, CAG, and TV-6 to expand on this.

Director Adjarian noted that the second paragraph of the reference material mentions the ACWA Deputy Executive Director for External Affairs Jennifer Persike, however Jennifer has retired.

President Goldman asked for a Motion.

Motion: Director Adjarian made a Motion, seconded by Director Monin and carried unanimously across the Board to approve Resolution No. 18-9-3 supporting California Water Professionals Appreciation Week.

Roll Call Vote:

| | |
|-------------------|-----|
| Director Adjarian | aye |
|-------------------|-----|

| | |
|------------------------|-----|
| Director Monin | aye |
| Director Freshley | aye |
| Vice President Vergara | aye |
| President Goldman | aye |

General Manager Information Items

General Manager's Monthly Report

Mr. Hill stated that the Customer Service report is looking good.

There were no other comments.

State Drought Regulations – Monthly Report

Mr. Hill stated that we continue to file the monthly water usage reports to the State compared to our 2013 usage. He further stated that we included Recycled Water sales, and are still at 24% overall.

Legislative Reports

Mr. Hill stated that SB 998, which wants one size fits all for shutting off customers for non-payment, is on the Governor's desk for signature. He further stated that staff will be having a meeting to discuss the District's current process for handling non-payment customers, and how this bill will impact the District.

Mr. Hill stated that AB 2050 which is taking the place of SB 623, Water Tax is also on the Governor's desk for signature. He further stated that SB 845, Urban Water Suppliers, and SB 844, Agricultural Suppliers which was trying to replace SB 623 Water Tax both failed, but could return next year.

Mr. Granito reported that it is highly probable that SB 998 will be signed by the Governor. If so, the compliance date is February 1, 2020.

Director Freshley stated that whoever wrote the County of Orange Report on the LAFCO update, the last paragraph, she didn't get the same interpretation at all while she attended the meeting. Mr. Hill replied that the Lewis Consulting Group who is a consultant for MWDOC wrote the summary.

Public Education and Outreach/Water Conservation Reports

Mr. Hill stated that Ms. Seitz is attending a California Emergency Services Association conference in Indian Wells. He further stated that ETWD will be joining the group for \$110 the first year and \$75/year afterwards.

Director Freshley stated that in the report there are 4 different activities and asked if the Board members could attend. Mr. Hill replied that Ms. Seitz previously sent this list of outreach activities to the Directors so that they are aware of what is going on in the community and could attend if interested.

President Goldman stated that the outreach events are not compensable events.

SOCWA Reports

President Goldman stated that at the SOCWA Board meeting there was an open discussion item that was somewhat disturbing by the SOCWA General Manager that suggested that all agencies have liability if there is a third party lawsuit associated with the failure of SOCWA facilities regardless of the membership in individual project committees. He further stated that the SOCWA General Manager suggested that the lack of financial support of capital projects at the Coast Treatment Plant by MNWD could lead to catastrophic failures and each of the member agencies would all be liable.

Director Adjarian stated that the SOCWA Board directed the General Manager to provide a list of critical projects that need attention within the next 12-18 months and the cost associated with them. President Goldman stated that what was presented was a \$15 million project.

Mr. Cafferty stated that at the Engineering Committee meeting they laid out a 10-year capital plan for the Regional Treatment Plant at which ETWD owns solids handling capacity, for a \$95 million total cost over the next 10 years, of which ETWD is responsible for approximately \$8 million, which is double what was discussed last year.

Director Adjarian stated that at the Finance Committee meeting they discussed the 2016/17 Use Audit, 2017/18 staff presentations, and an update from MNWD regarding their analysis of unfunded liability. He further stated that MNWD is still reviewing additional data, so this is still pending. Director Adjarian stated that they recommended approval of the 2016/17 Use Audit.

Mr. Cafferty stated that SOCWA is reviewing the O&M costs and some agencies may get a refund while others may incur additional costs.

MWDOC

Director Monin stated that at the Planning & Operations meeting they discussed the status of the Orange County Water Reliability, the MWDOC Strand Ranch pilot, and water loss control. Vice President Vergara stated that they had a presentation by IRWD on the Strand Ranch project

Director Monin stated that at the MWDOC/MET Workshop they discussed MET Chairmanship, and the Santa Ana Regional Conservation program.

Director Monin stated that at the Admin/Finance meeting they discussed a MWDOC Water Facilities meeting, a presentation from HighMark regarding OPEB and pension trust investments, 2018/19 choice programs, an award for seismic retrofits, Prudent companion policy, FEMA and AWWA disaster resource workshops, and the ACC-OC advocacy conference.

Vice President Vergara stated that the companion policy is when a Director attends a conference and brings their spouse along.

Vice President Vergara stated that at the Board meeting they approved everything on the agenda.

Mr. Hill stated that Mr. Cafferty attended the Orange County Water Reliability Study workshop which was held in lieu of the Managers meeting.

LAFCO

Director Adjarian stated that the Commission approved the MSR for the City of San Juan Capistrano Water and Wastewater Utility, and there was no emphasis on which agency to recommend.

SOCWMA

Mr. Cafferty stated that at the Management Committee they discussed south and north county disadvantaged community applications, and ETWD will now be a part of the sub-committee that will review projects.

ISDOC Meetings

Director Monin stated that they discussed joining the Fire Authority.

WACO Meetings

Vice President Vergara stated that they discussed potential new water supplies, and who should attend and speak at the WACO Planning Committee meetings.

City Coordination Efforts

There were no comments.

Committee and General Information

There were no comments.

Dates to Remember

There were no comments.

Carry-Over Pending Matters

Mr. Cafferty stated that Cyber Security, and System Vulnerability are on-going projects, and Phase III Recycled Water will be discussed at the upcoming Special Board meeting, and we are focused on these projects.

Director Comments/Non-Agenda Items

Director Freshley stated that she sat in on a City meeting where they discussed a cell tower that Verizon is proposing to put on ETWD's property. She further stated that they passed Ordinances within our service area regarding access to the cell tower and any graffiti removal. She asked who is responsible for the upkeep on the cell tower and any removals.

Mr. Cafferty stated that there is a separate lease document between the District and Verizon. He further stated that the District has several cell site leases within the service area, and when the towers go away, the lease holder is responsible for taking them down.

Attorney Report

Mr. Granito reported that there is a need for a Closed Session today for staff to provide an update on the SCE claim.

Recess

At approximately 9:34 o'clock a.m. the Board took a short recess.

Regular Session

Closed Session

At approximately 9:37 o'clock a.m. the Board returned to Regular Session and immediately went into Closed Session.

Regular Session/Open Session Report

At approximately 9:45 o'clock a.m. the Board returned to Regular Session. Also at this time, Ms. Welsch returned to the meeting.

Mr. Granito reported that at approximately 9:37 o'clock a.m. the Board went into Closed Session to discuss item #2 of today's Closed Session agenda. He further reported that during this phase of the Closed Session, the General Counsel, General Manager, and Assistant General Manager led a discussion on the Claim filed by Southern California Edison (SCE) on August 20, 2018, and during the Closed Session the Board rejected that Claim. No further reportable action was taken.

Adjournment

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

Motion: Director Monin moved, seconded by Director Freshley and unanimously carried that today's meeting be hereby adjourned at 9:45 o'clock

a.m. to Thursday, October 25, 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

GENERAL MANAGER'S REPORT

October 2018

I. OFFICE OF THE GENERAL MANAGER

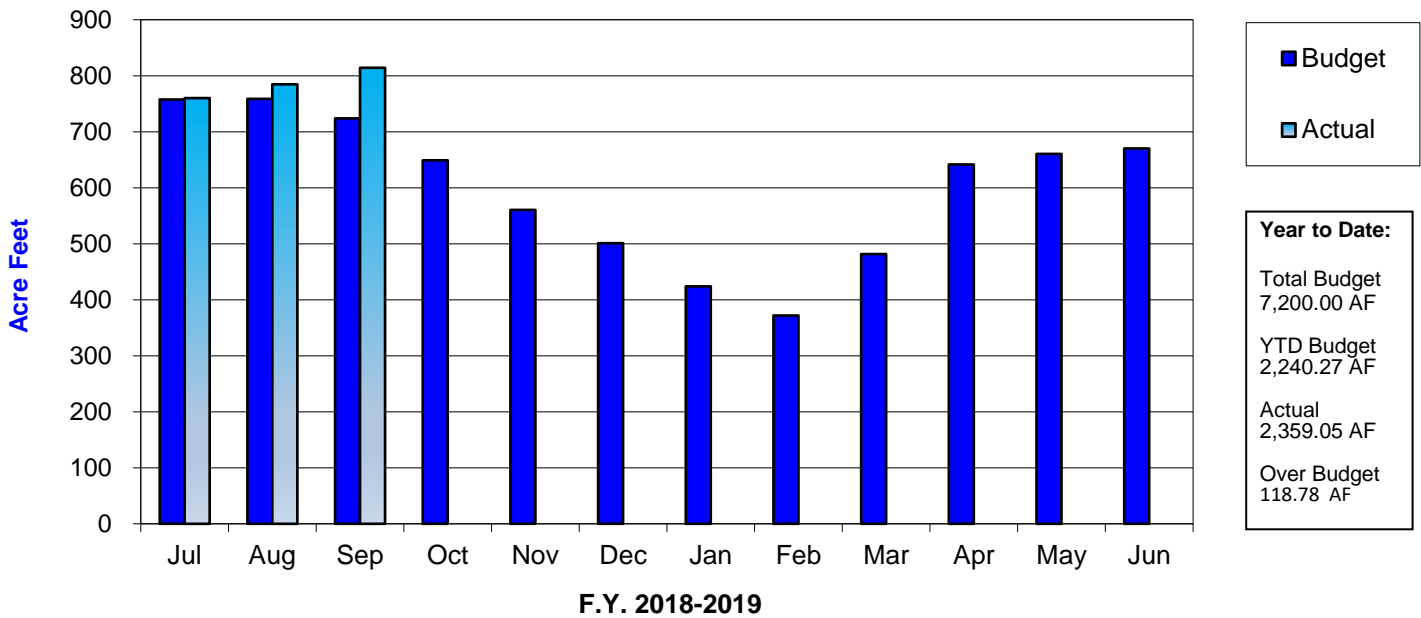
- Attended Chair/GM Meetings
- Attended Agenda Review
- Attended MWDOC Managers Meeting
- Attended Engineering & Finance Committee Meetings
- Attended Regular Board Meeting
- Attended South County Agencies Meeting
- Attended Meeting at IRWD Regarding SOCWA Issues
- Attended Conference Call Meeting with Richard Babbe of PFM
- Attended Special Board Meeting
- Attended ETWD/Poseidon Resources Meeting at ETWD
- Attended IRWD/ETWD Interagency Meeting
- Attended RRC Meeting

II. DOMESTIC AND RECYCLED WATER SALES

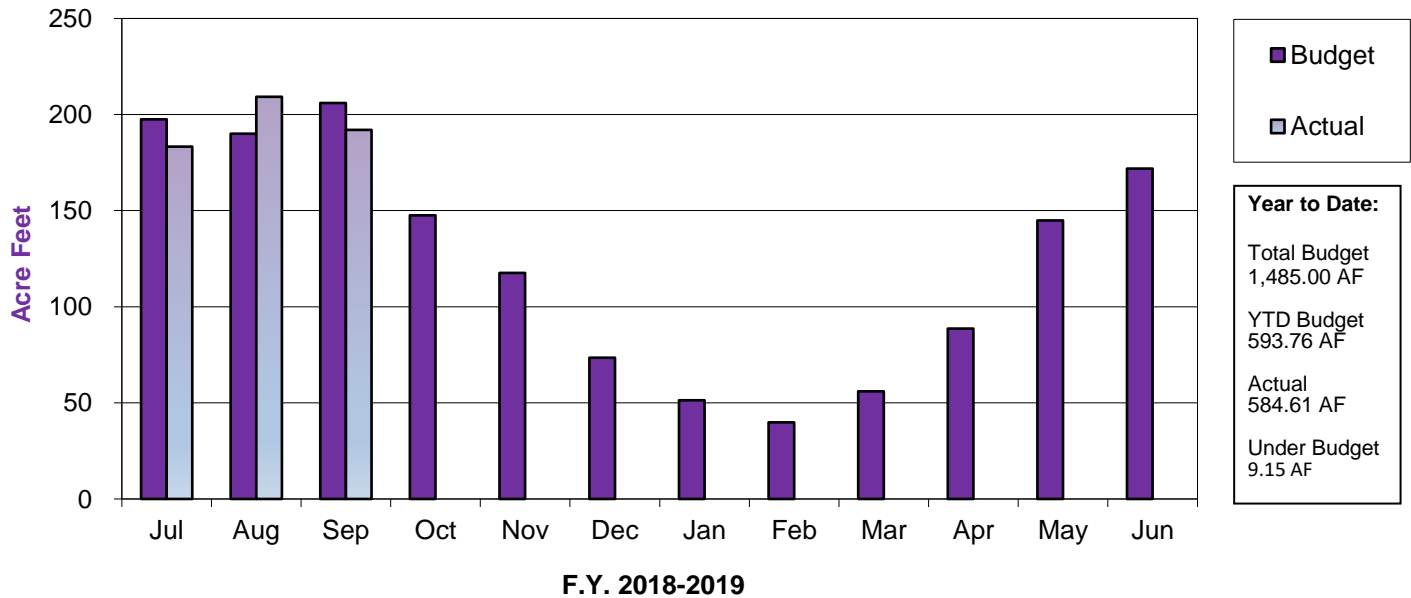
Actual domestic sales for the year-to-date as of September 30, 2018 are 2,359.05 acre-feet. This compares to year-to-date budgeted domestic sales of 2,240.27 acre-feet. The year-to-date variation in actual to budgeted sales reflects an increase of 118.78 acre-feet. Actual sales are 8.27 acre-feet higher than last year-to-date actual sales for the same period.

Actual recycled sales for the year-to-date as of September 30, 2018 are 584.61 acre-feet. This compares to year-to-date budgeted recycled sales of 593.76 acre-feet. The year-to-date variation in actual to budgeted sales reflects a decrease of 9.15 acre-feet. Actual sales are 32.87 acre-feet higher than last year-to-date actual sales for the same period.

POTABLE WATER SALES



RECYCLED WATER SALES



Customer Service Activity Report

SEPT 2018

| Regular Service Calls | SEPT 2018 | SEPT 2017 | Telephone Calls | SEPT 2018 | SEPT 2017 |
|---|-------------|------------|--|------------------|------------------|
| Serviceman Dispatched to Read, Connect/Disconnect Service | 57 | 63 | Change of Service: (CR / DR within and/or outside of ETWD service area) | 89 | 97 |
| Field Investigations: | | | Billing / Payment & Graph Inquires | 312 | 437 |
| Check for leaks-calls to CS | | | Assistance with online payments and ETWD's portal (cc, echecks) | 78 | 149 |
| Office:(irrigation,meter,street leaks) | | | Variance / Waiver Inquiries | 44 | 98 |
| Customer Responsible | 23 | 20 | Variance / Waiver Requests Processed | 14 | 27 |
| District Responsible | 7 | 11 | Ordinance Infraction / Water Waste Complaints | 5 | 4 |
| None found/other | 9 | 10 | | | |
| High Reads Checked - High Consumption (Billing Dept.) | | | Other Districts | 50 | 133 |
| Cust Leaks: _3_ No Leaks: _3_ | 6 | 24 | Phone Transfers to other Departments within ETWD | 112 | 146 |
| Check Stopped Slowed Meters-Low Consumption (Billing) | 1 | 2 | Calls for the Board of Directors | 2 | 2 |
| Re-Check Read | 5 | 12 | Recycled Water | 0 | 6 |
| Ordinance Infraction | 3 | 4 | Water Quality Taste - Odor - Color | 1 | 1 |
| Recycled Water | 0 | 0 | Leaks / Breaks | 26 | 61 |
| Water Quality: Taste / Odor / Color | 1 | 0 | Flooding (Hydrant) Meter calls | 3 | 2 |
| Phone response: _1_ Field response: _0_ | | | Sewer Problems (odor / spill) | 6 | 2 |
| Flooding (Hydrant) Meters issued | 2 | 0 | Backflow / Cross Connection (questions or yearly testing forms) | 5 | 6 |
| Sewer - Odor/Stoppage/ Manhole Covers | 7 | 2 | ETWD facilities inquiries: Boxes/Covers/Lids/Hydrants/Pump Stations/Graffiti/ "Gen. Maint" | 2 | 2 |
| Meter Box: Lids / Covers Replaced | 15 | 10 | Tyco (ADT) Calls (Alarms to ETWD facilities) | 1 | 6 |
| Meter Box Clean, Digout | 8 | 4 | ATT Calls (access to tower sites) | 0 | 0 |
| Raised Meter Box | 1 | 1 | SCE Calls (access to tower sites) | 1 | 0 |
| Trim Bushes / Meter Obstruction | 17 | 6 | Pager Calls specifically for Pump Stations - SCADA | 0 | 0 |
| General Maintenance Response | 2 | 7 | Payment Extensions | 79 | 129 |
| Fire Hydrants: Hit / Leaks / Caps | 0 | 3 | Delinquent Payment Calls to Customer 's (automatic dialer) | 39 | 2 |
| Pressure(psi) Checks / Reads | 3 | 1 | Return Calls from customers left on our voice mail system. | 31 | 38 |
| CSSOV (Angle Meter/Ball Valve/Gate Valve/Globe Valve) chk,repair,replaced | 13 | 8 | Email Correspondence | 55 | 283 |
| Bees Removed | 1 | 3 | Maintenance Service Order | | |
| Backflow / Cross Connection | 1 | 3 | Requests (bees, psi, fogged-dirty registers) | 2 | 0 |
| Fogged Registers | 11 | 0 | **Misc.. (other: employment, deliveries, sales calls) | 43 | 0 |
| OMCOP: Old Meter Change - Out Program | 5 | 8 | | | |
| Other: (uncommon non-maintenance) | 4 | 2 | | | |
| On-Call After Hrs. CS Response | 20 | 32 | | | |
| # 48/24 Hr. Door Hangers Hung | 178 | 170 | | | |
| # Locked Off For Non-Pay (Disconnect) | 14 | 14 | | | |
| Removed Meter | 0 | 1 | | | |
| New Meter | 0 | 4 | | | |
| Unread Meters | 28 | 16 | | | |
| Total Field Investigations | 442 | 441 | Total Telephone Calls | 1000 | 1631 |
| Uncollectible Accounts: | | | Credit Card Payments | SEPT 2018 | SEPT 2017 |
| Budget YTD | \$ 5,000.00 | \$5,000 | REGULAR | 628 \$70,774.44 | 603 \$72,891.39 |
| Actual YTD | \$ (114.00) | \$5,711 | DISCONNECTS | | |
| * = New Code | | | | | |

EL TORO WATER DISTRICT COLLECTION SYSTEM ACTIVITY REPORT

MONTH ENDING: September 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 | | 11,443 | | | |
| Laguna Woods Village | | | | | |
| New World | | | | | |
| TOTAL | | 11,443 | | | |
| HYDRO-CLEANING | | FOOTAGE | COMMENTS: | | |
| Outside Laguna Woods Village | | 13,488 | | | |
| Laguna Woods Village | | 419 | | | |
| New World | | | | | |
| Private System | | | | | |
| Hot Spots | | 23,785 | | | |
| ETWD TOTALS: | | 37,692 | | | |
| SANTA MARGARITA TOTALS: | | | | | |
| COMBINED TOTALS: | | 37,692 | | | |
| TV INSPECTIONS | | FOOTAGE | COMMENTS: | | |
| Outside Laguna Woods Village | | | | | |
| Laguna Woods Village | | 10,344 | | | |
| New World | | | | | |
| Private System | | | | | |
| Other | | | | | |
| TOTAL | | 10,344 | | | |
| Wet Wells | | Number | 3 | MATHIS-WESTLINE-VEEH-1 & 2 | |
| Flow Meter/Sampling | | Number | | | |
| WATER TANK FILLS 37 | | 37,000 | | | |

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

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

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

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

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

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

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

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

| EL TORO WATER DISTRICT MONTHLY POTABLE WATER QUALITY ANALYSIS | | | | | |
|--|--------------------|------------|---------------------|-------------|----------|
| MONTH: | | September | YEAR : 2018 | | |
| CONSTITUENT ANALYSIS | | INSIDE LAB | | OUTSIDE LAB | |
| | MCL | NO. | RESULTS | NO. | RESULTS |
| | | | | | |
| 1 Microbiological | Pres/Absence | 147(A) | Pres/Absence | | Average |
| 2 Chlorine (ppm) | Detectable Resid | 191 | Average = 1.26 ppm | | |
| 3 TTHM (ppb) (Stage 2) | 0.080 ppb | | N/A | 8 | 24.6 ppb |
| 3 HAA5 (ppb) (Stage 2) | 0.060 ppb | | N/A | 8 | 13.5 ppb |
| 4 Physical Quality: | | | RANGE | | |
| Turbidity (ppm) | 5 NTU | 20 | 0.03 to 0.18 | | |
| Odor | 3 Units | 20 | ND<1 | | |
| Color | 15 Units | 20 | ND<5 | | |
| Temperature | No standard | 20 | 79°F To 85°F | | |
| 5 Nitrite (Alert/Action level)ppm | 0.015 to 0.030 ppm | 89 | 0.000 to 0.018 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 |

Weekly Water Quality System Status

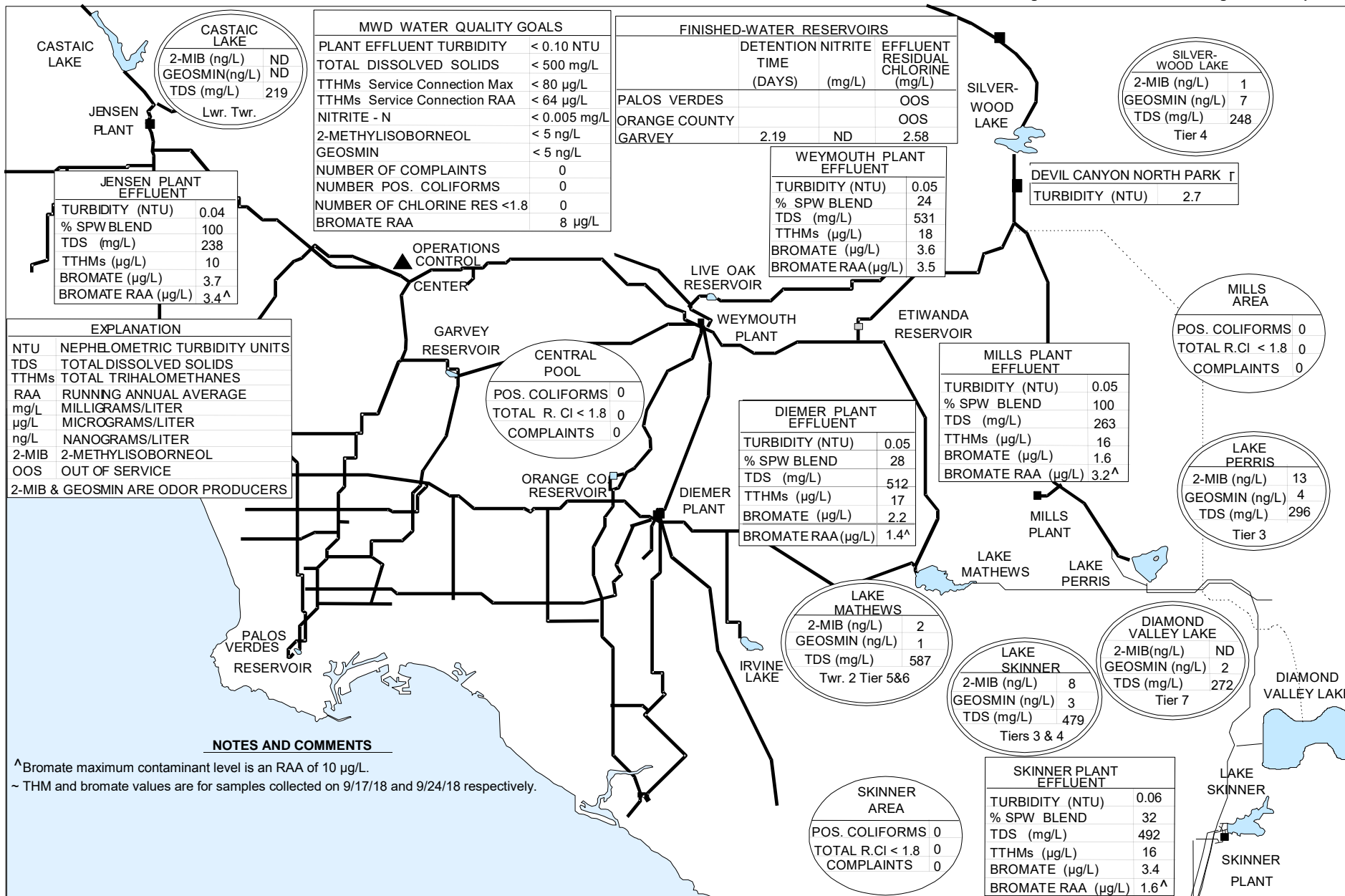
Wednesday, October 10, 2018

Printed On: 10/10/2018 3:34:32 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

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



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

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

MICROBIOLOGICAL MONITORING

SEPTEMBER 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 |

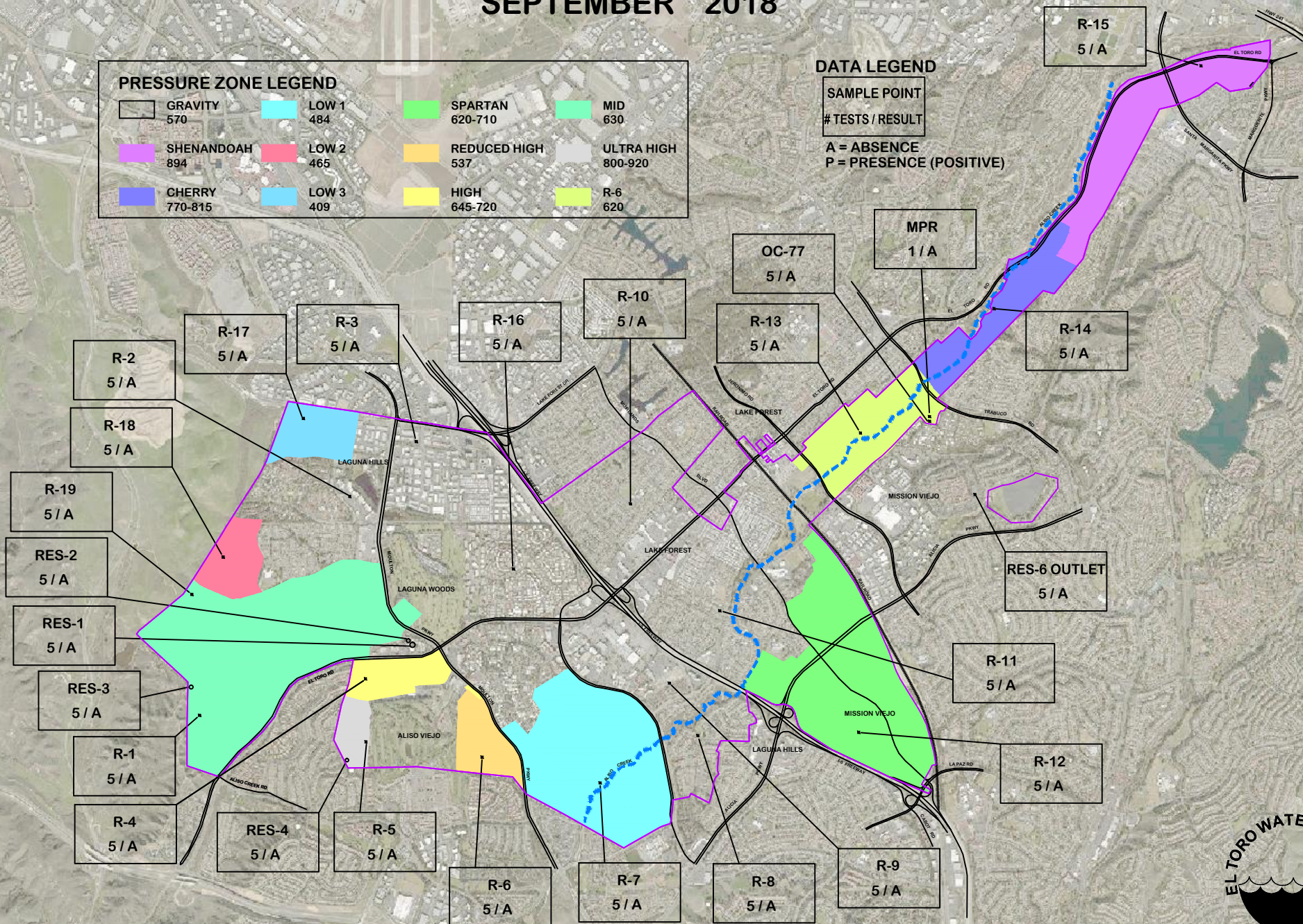
DATA LEGEND

SAMPLE POINT

TESTS / RESULT

A = ABSENCE

P = PRESENCE (POSITIVE)



CHLORINE RESIDUAL MONITORING

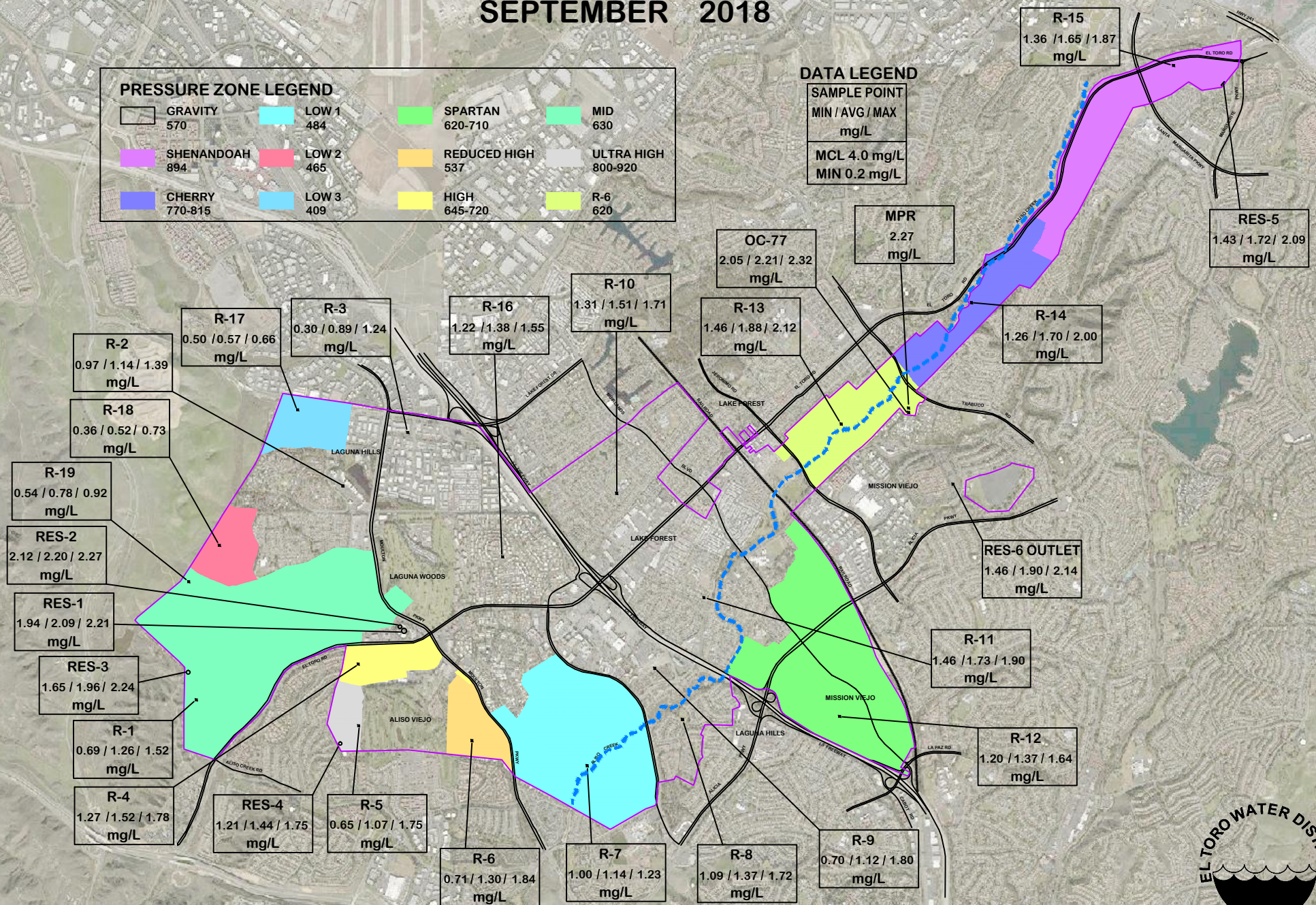
SEPTEMBER 2018

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 |

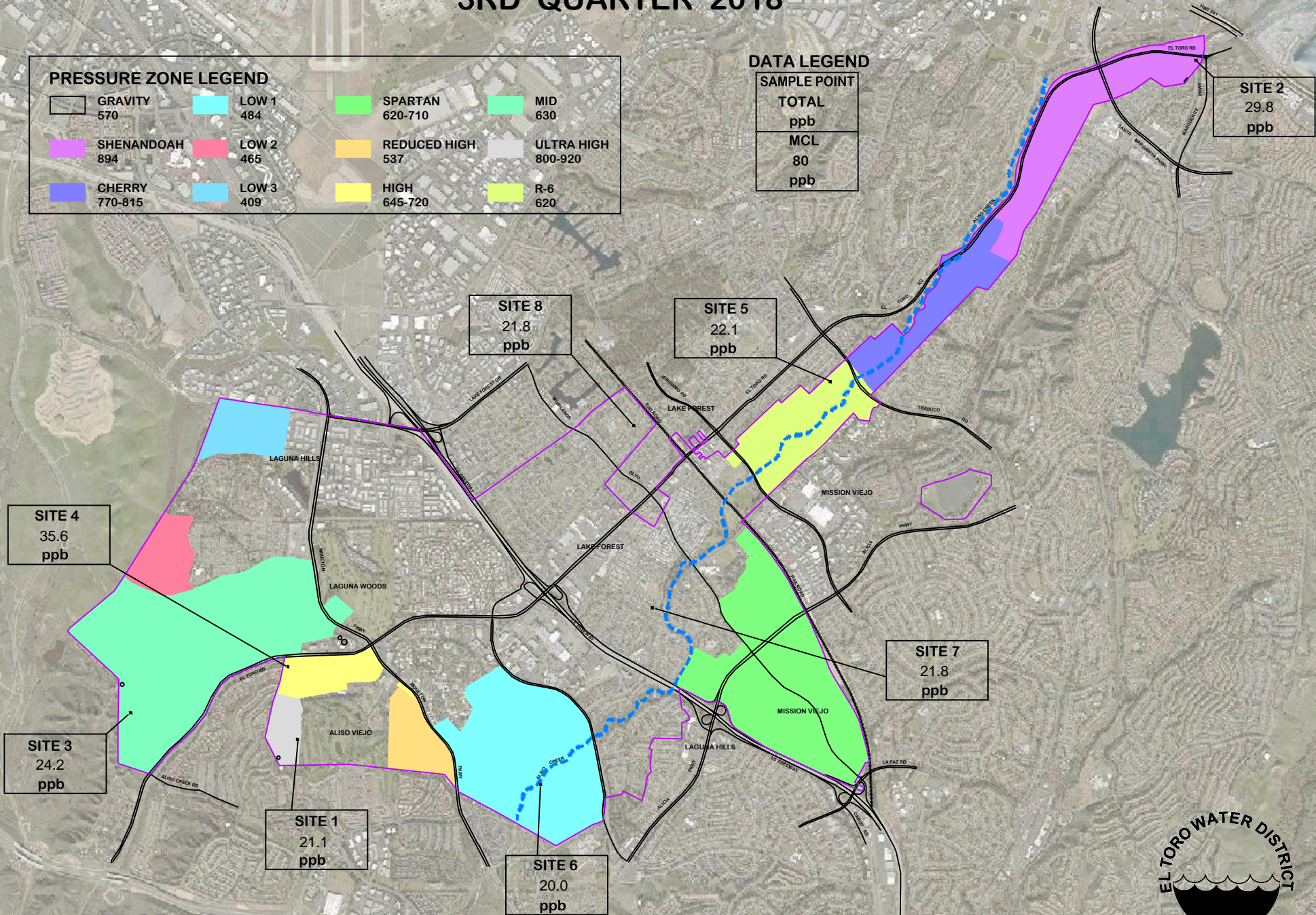
DATA LEGEND

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



STAGE 2 TOTAL TRIHALOMETHANES (TTHM) MONITORING

3RD QUARTER 2018



STAGE 2 HALOACETIC ACIDS (HAA5) MONITORING

3RD QUARTER 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 ppb |
| MCL 60 ppb |

ND : NONE
DETECTED

SITE 2
12.2
ppb

SITE 8
14.1
ppb

SITE 5
13.2
ppb

SITE 4
24.6
ppb

SITE 3
8.6
ppb

SITE 1
11.4
ppb

SITE 6
10.4
ppb

SITE 7
13.8
ppb



FLUORIDE MONITORING

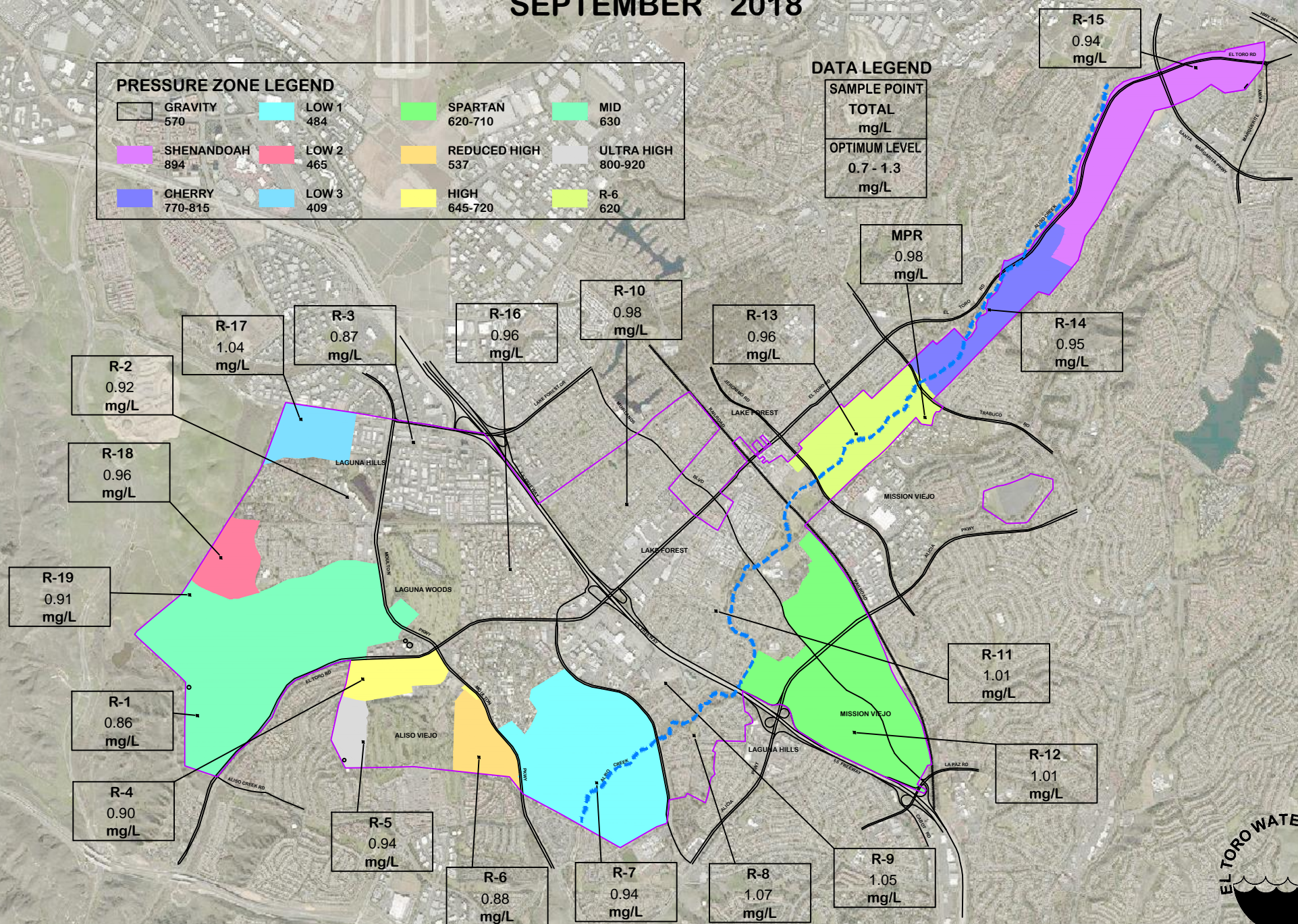
SEPTEMBER 2018

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

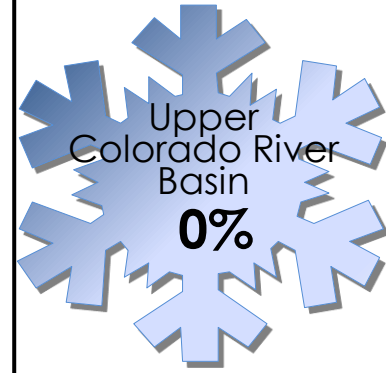
| SAMPLE POINT |
|------------------------------------|
| TOTAL mg/L |
| OPTIMUM LEVEL 0.7 - 1.3 mg/L |





Water Supply Conditions Report

As of: 10/08/2018

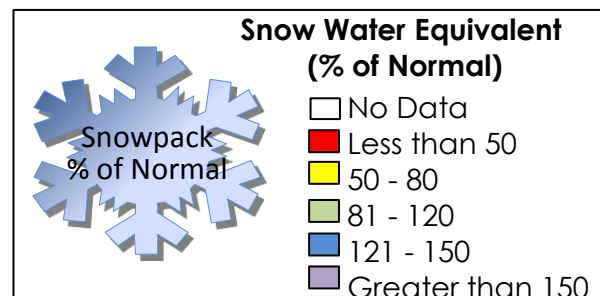
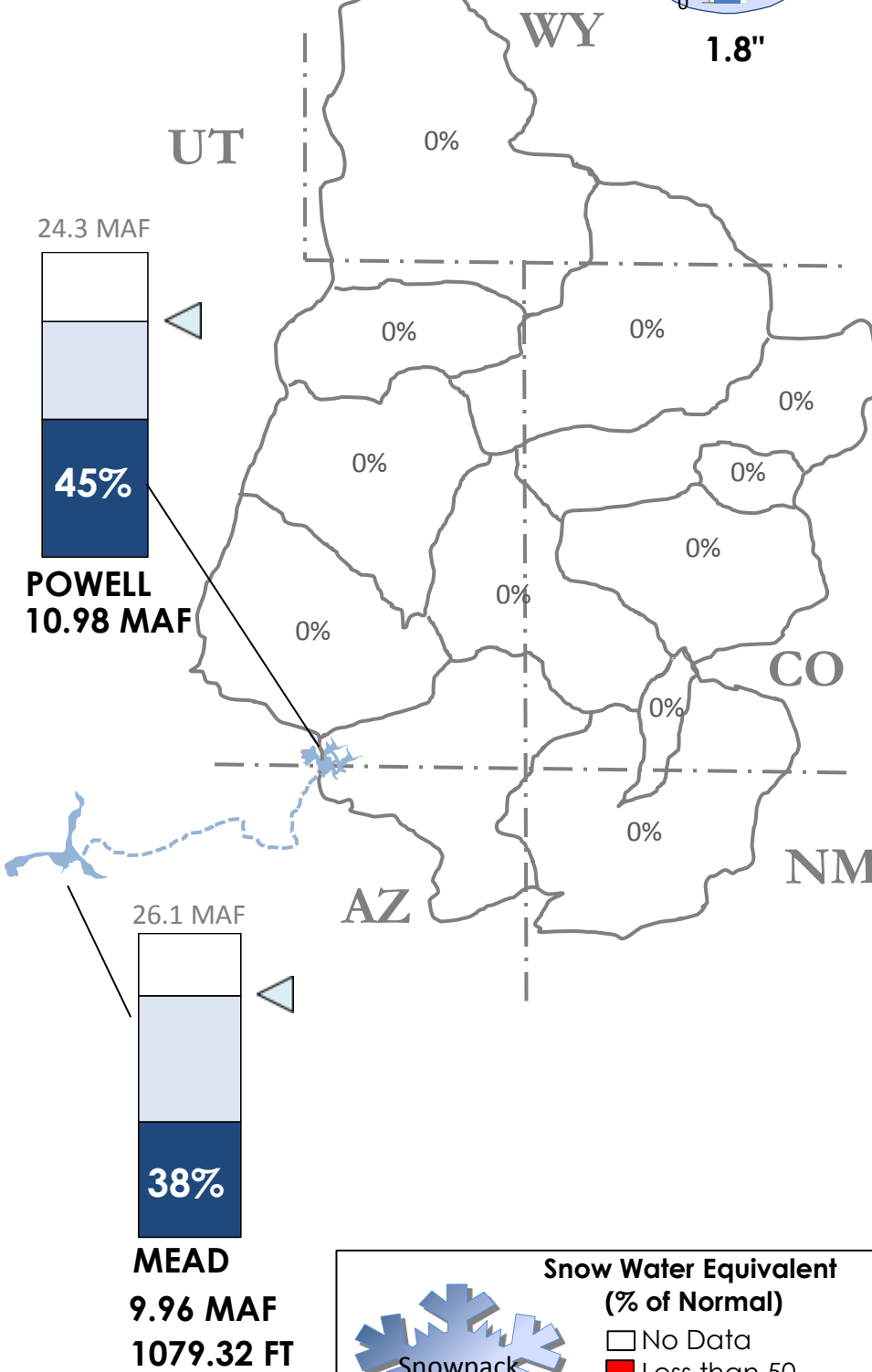
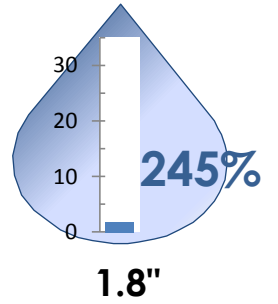


2018 Colorado River

854,752 AF

68% of full CRA

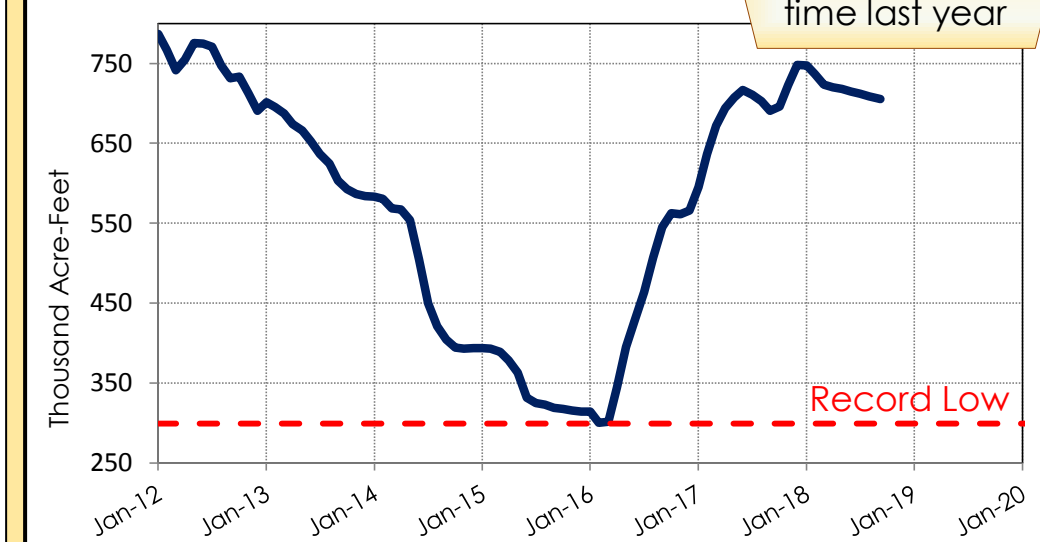
Does not include storage withdrawals



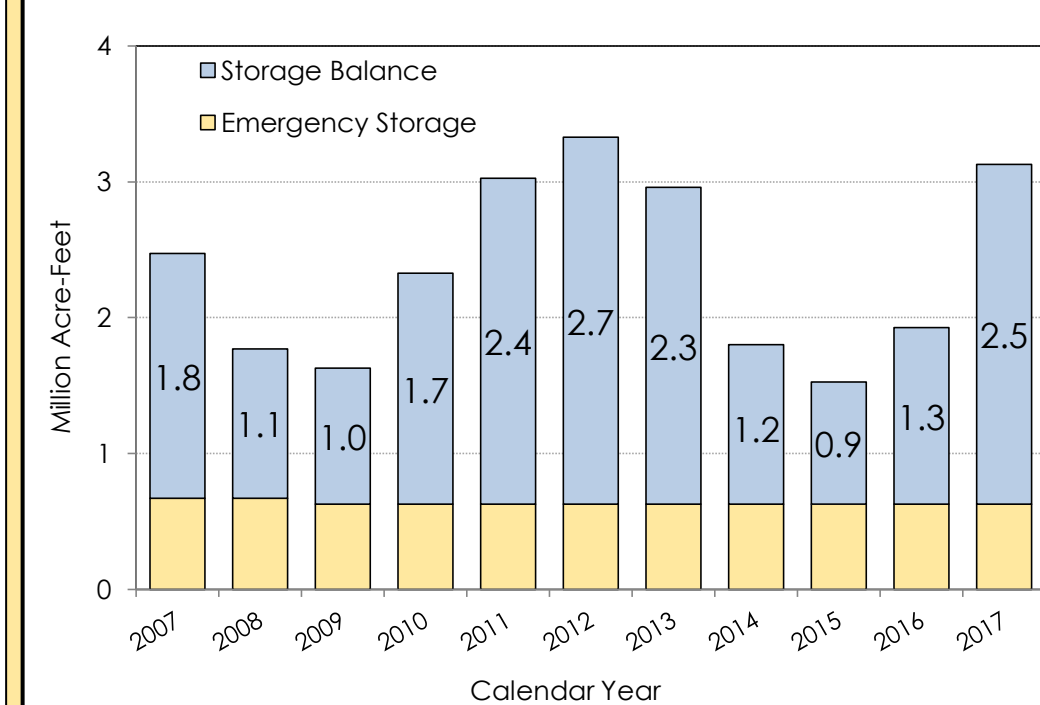
Diamond Valley Lake Storage

Capacity: 810 TAF

14 TAF more in storage than this time last year



MWD Storage Reserve Levels



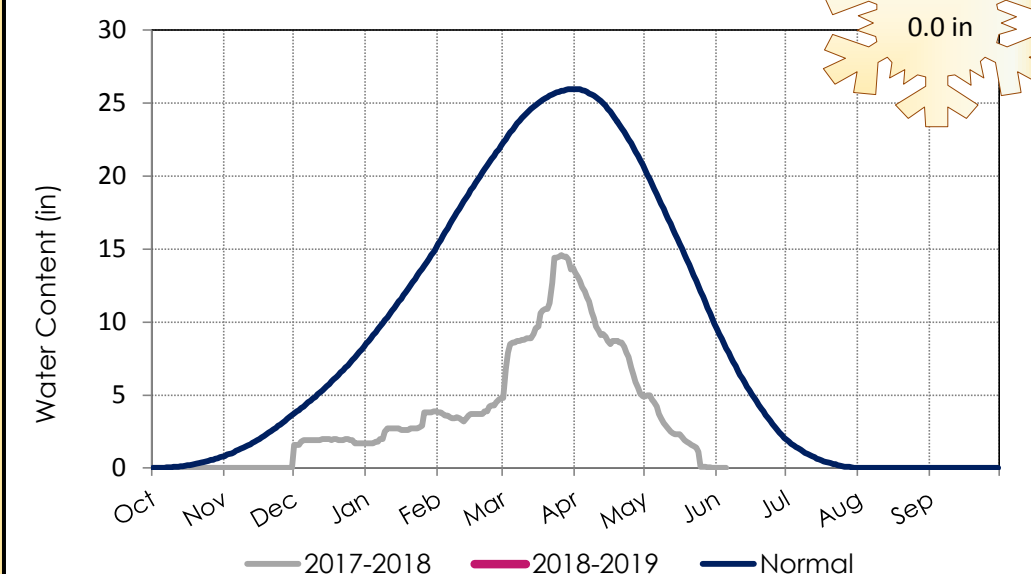
This report is produced by the Water Resource Management Group and contains information from various federal, state, and local agencies. The Metropolitan Water District of Southern California cannot guarantee the accuracy or completeness of this information. Readers should refer to the relevant state,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

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

This report is best printed double sided on legal size paper (8.5" x 14") and folded in quarters



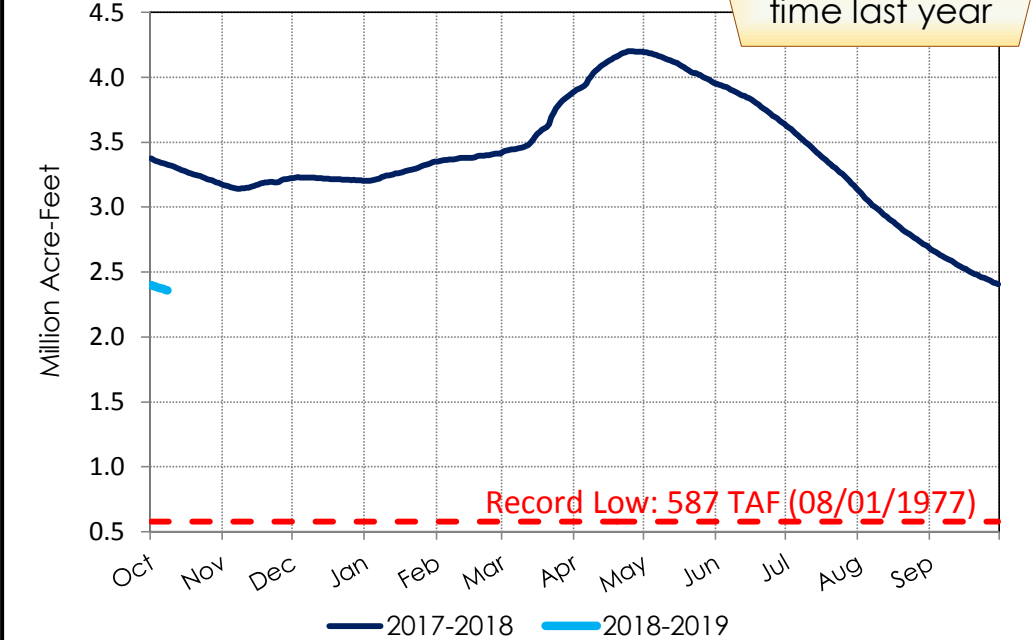
Southern Sierra Snowpack



Lake Shasta Reservoir Storage

Capacity: 4.55 MAF

969 TAF less in storage than this time last year



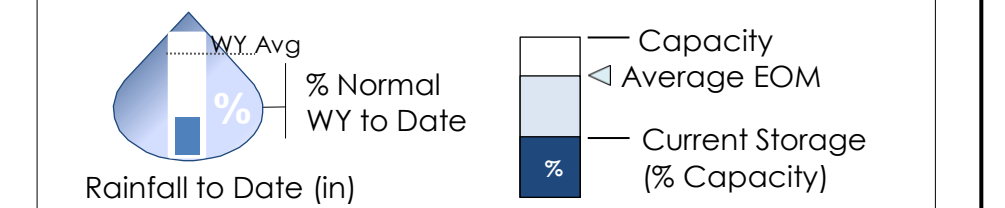
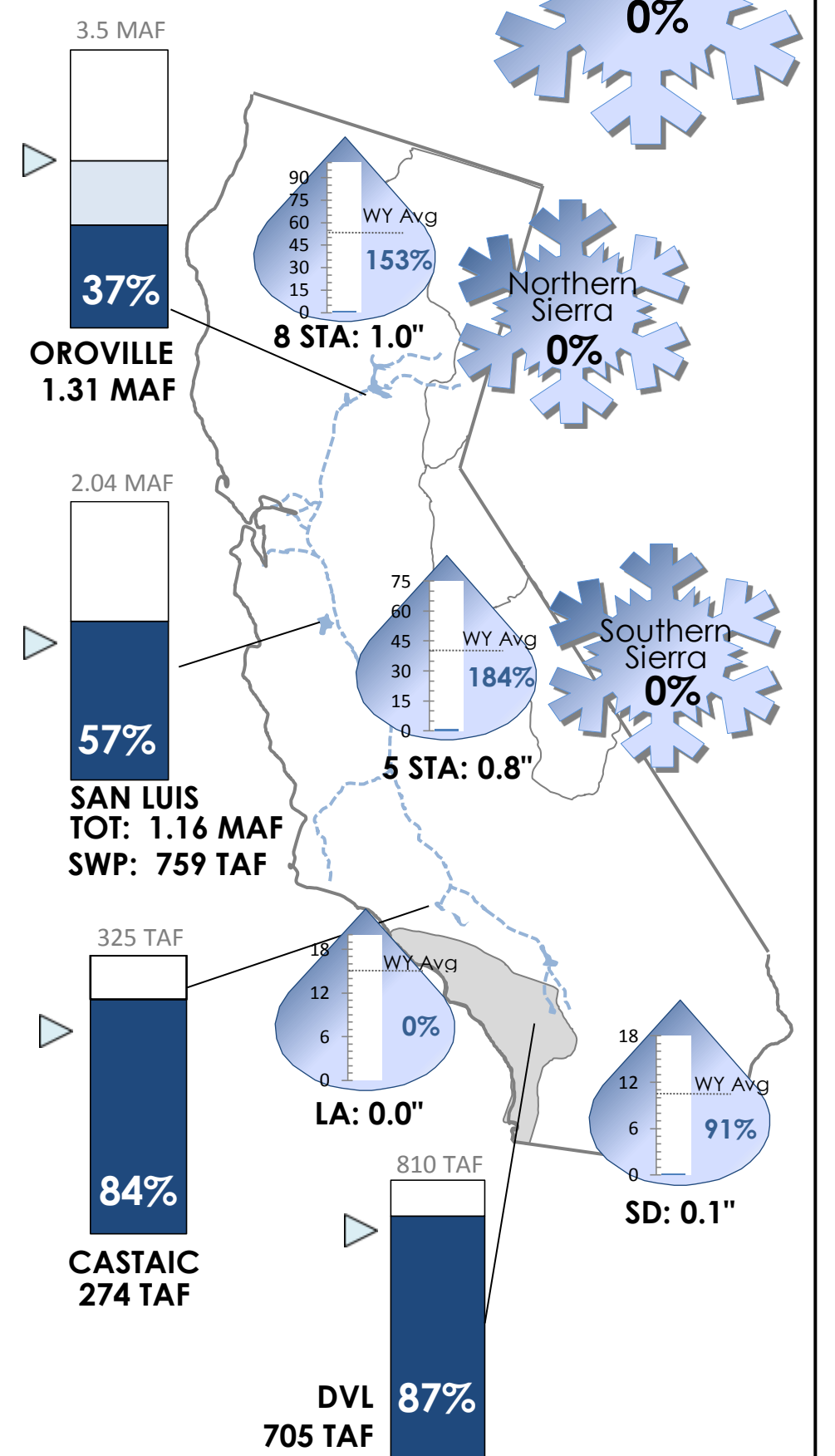
Water Supply Conditions Report

As of: 10/08/2018

2018 SWP Allocation

669,025 AF

35% of Table A



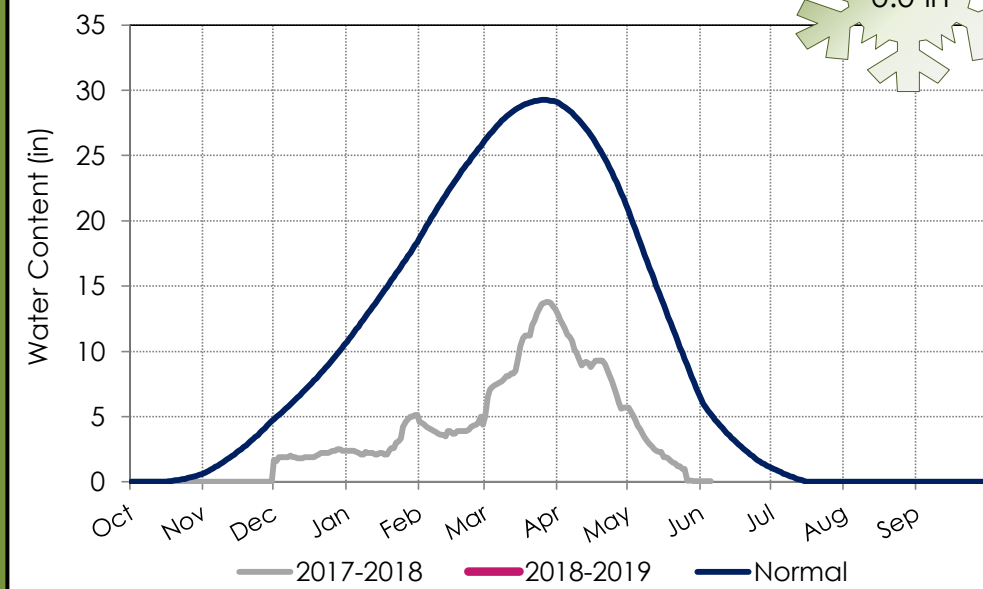
Flip Over for CRA Data

Turn page for more SWP Data

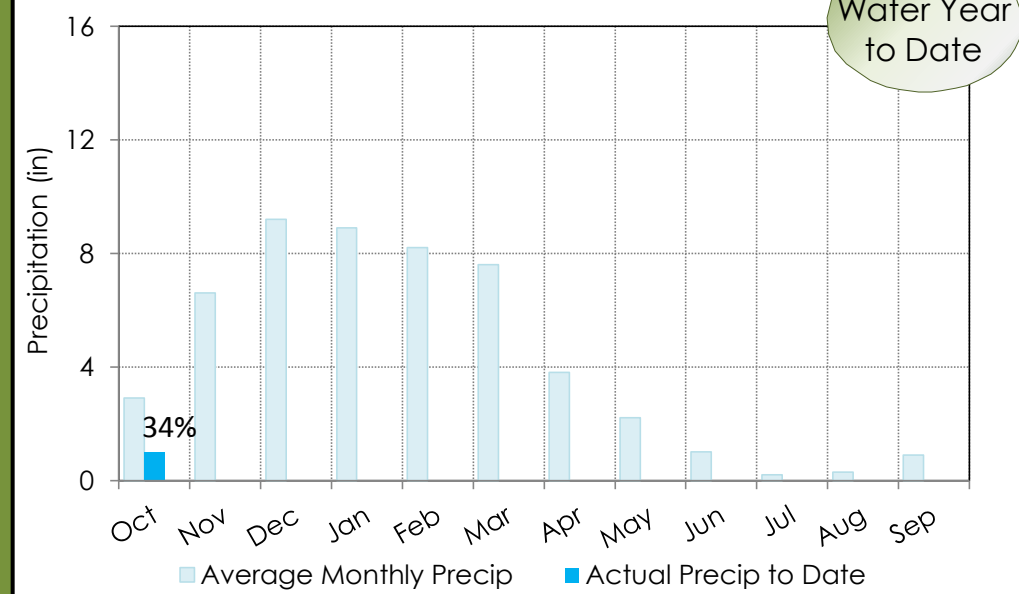
As of: 10/08/2018

State Water Project Resources

Northern Sierra Snowpack

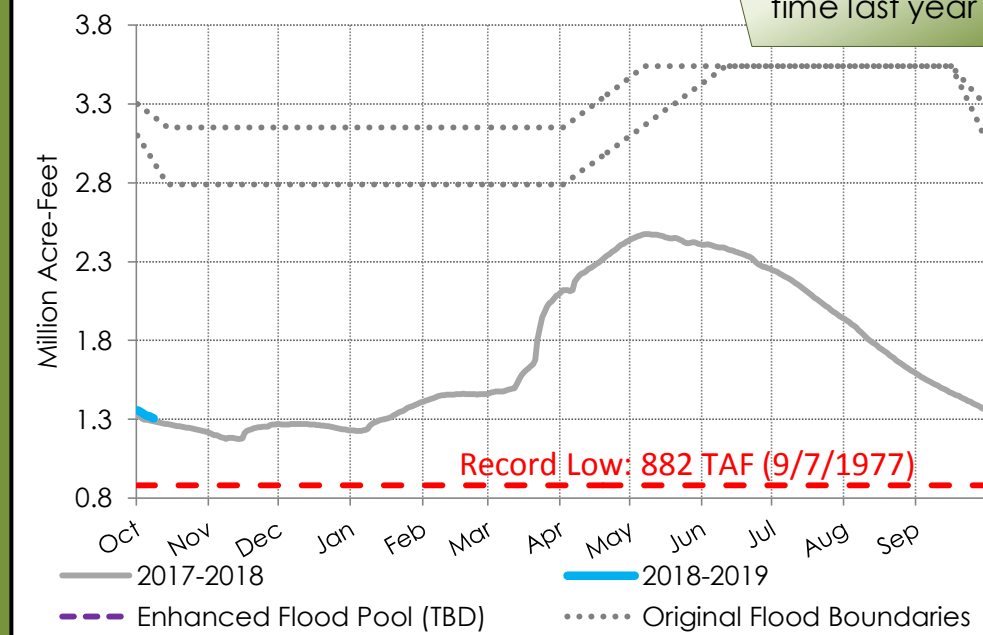


8 Station Index Precip

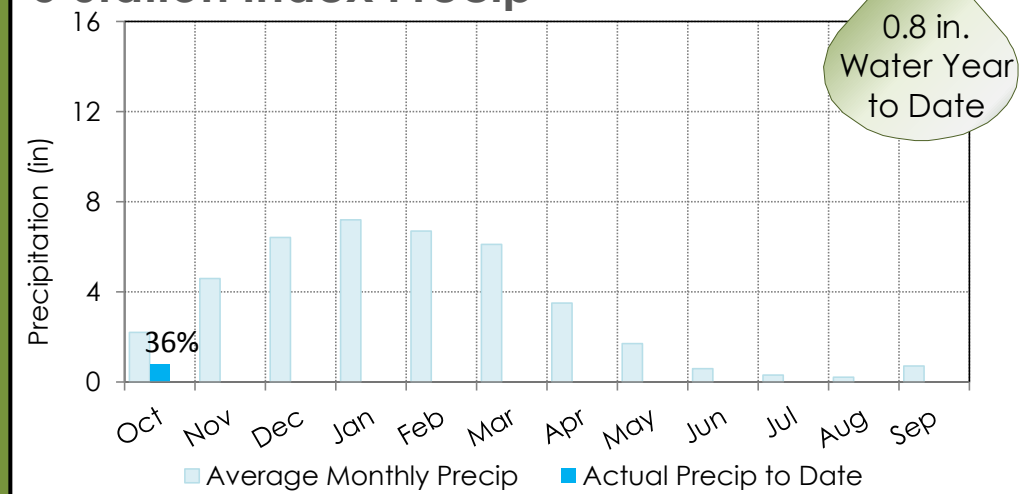


Oroville Reservoir Storage

Capacity: 3.5 MAF



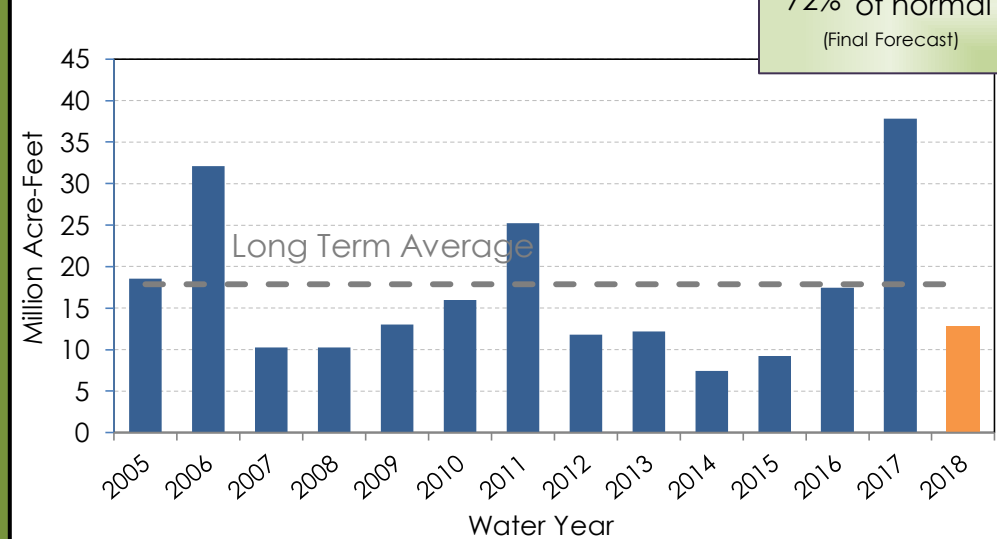
5 Station Index Precip



Other SWP Contract Supplies for 2018 (AF)

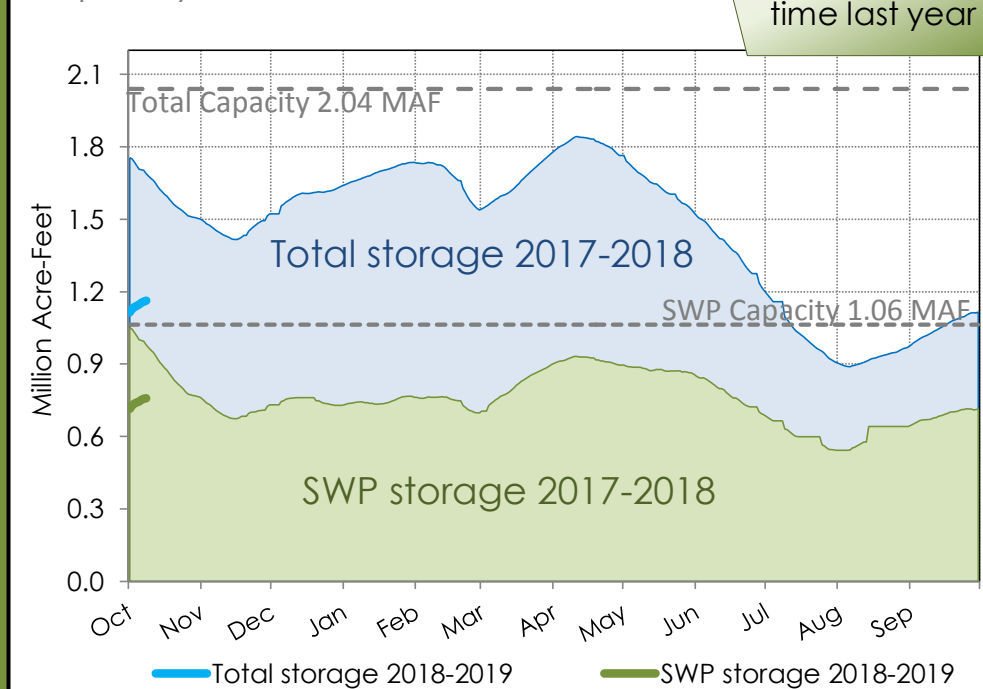
| | |
|----------------------|---------|
| Transfer/Exchanges | 15,000 |
| Article 14b | 27,500 |
| Pool A/B (Purchased) | 0 |
| Carryover Supplies | 297,000 |

Sacramento River Runoff



San Luis Reservoir Storage

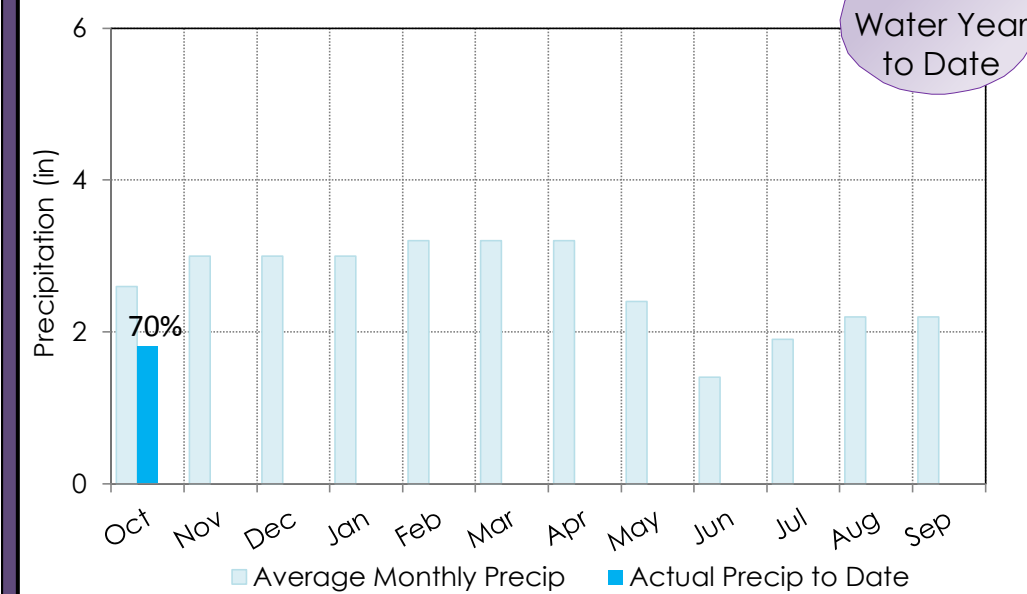
Capacity: 2.04 MAF



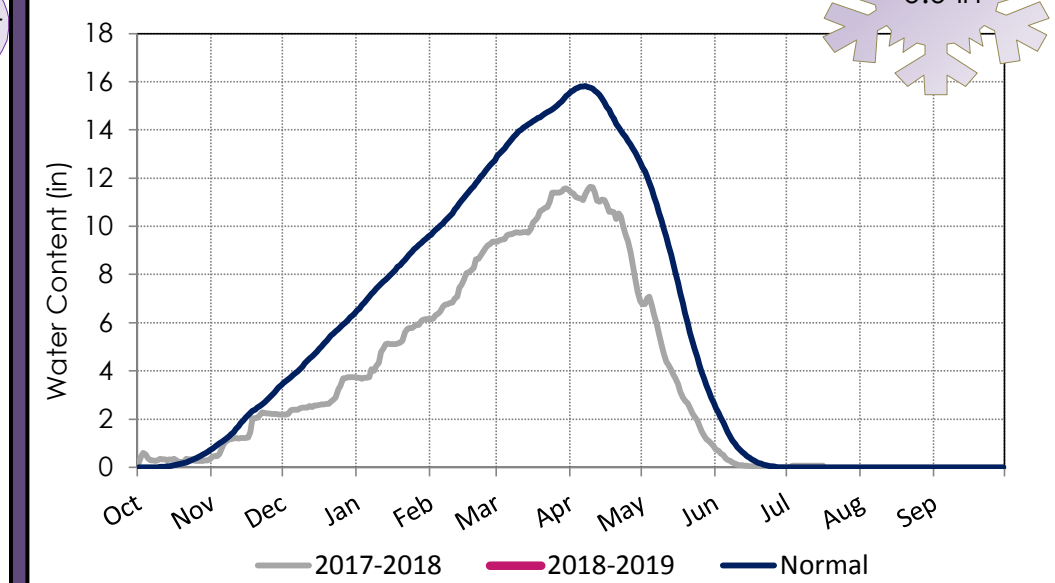
Colorado River Resources

As of: 10/08/2018

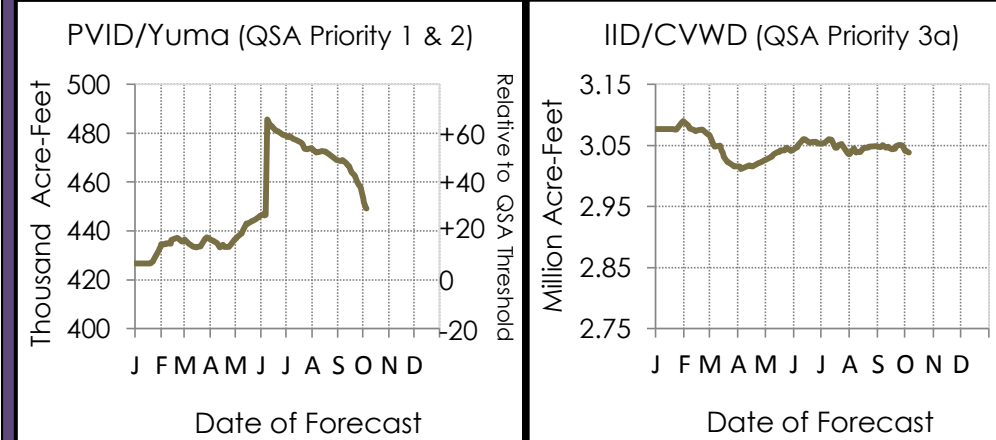
Upper Colorado Basin Precip



Upper Colorado Basin Snowpack

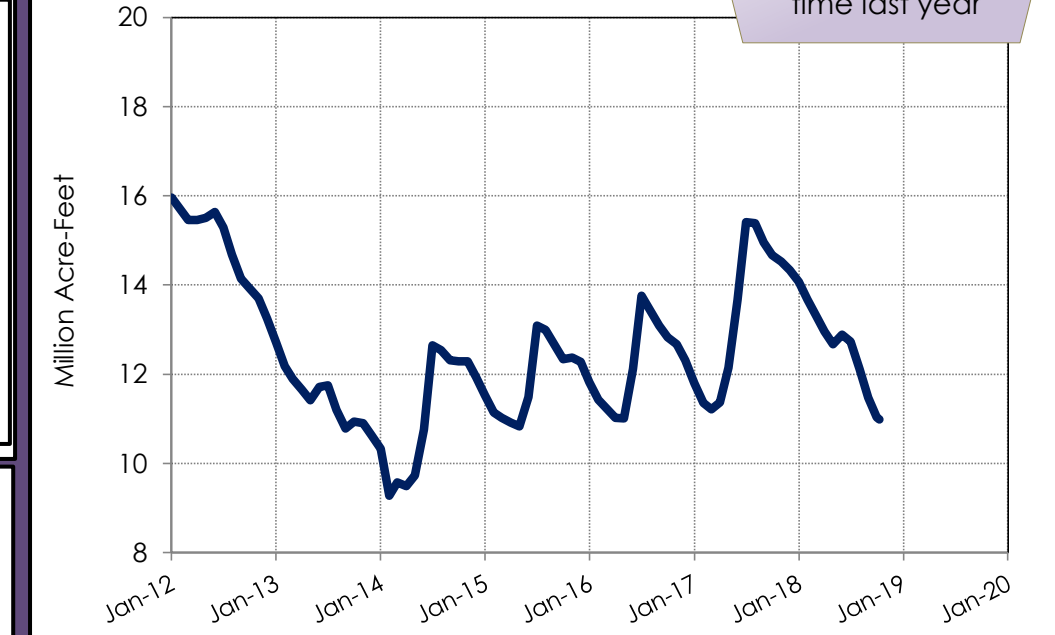


2018 Colorado River Ag Use



Lake Powell Storage

Capacity: 24.3 MAF

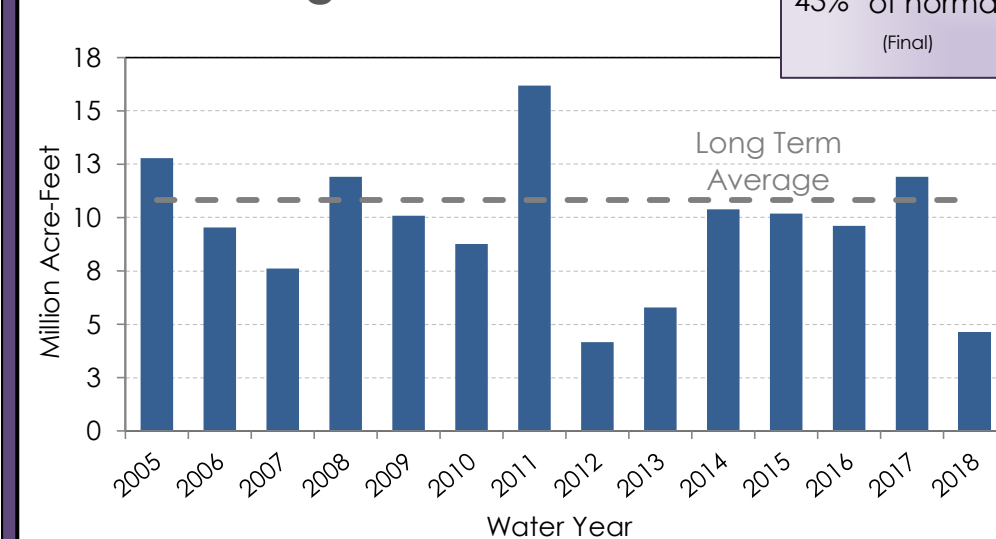


Lake Mead Shortage/Surplus Outlook

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

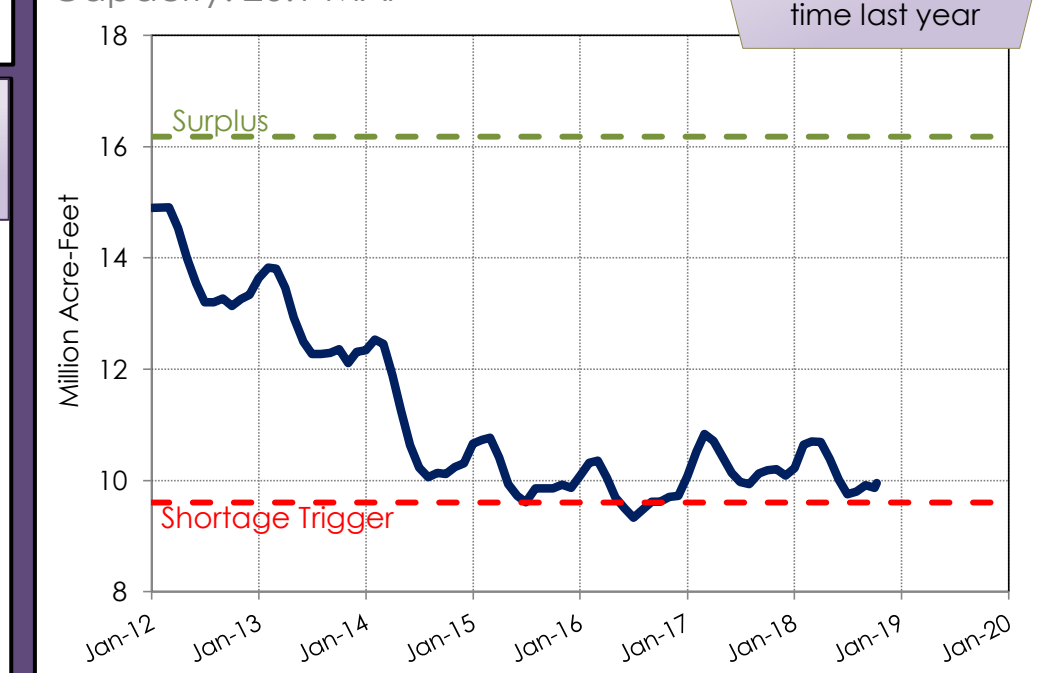
Likelihood based on results from the August 2018 CRSS model run.

Powell Unregulated Inflow



Lake Mead Storage

Capacity: 26.1 MAF





Memorandum

DATE: October 18, 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

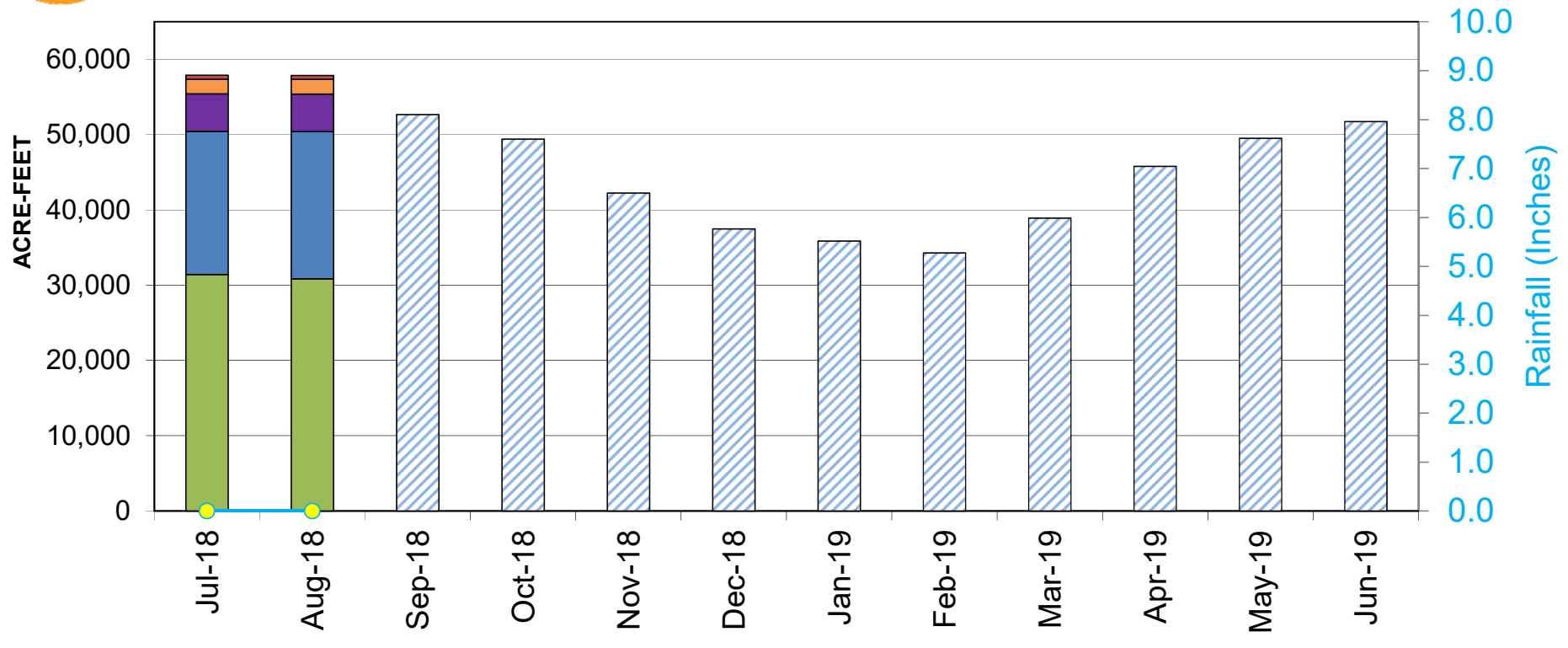
The Northern California accumulated precipitation (8-Station Index) is reporting **40.9 inches or 82% of normal** as of September 27. In the month of September 2018, accumulated precipitation reached 0.0 inches, which is **0.9 inches below normal** compared to the historical average. The Northern Sierra Snowpack peaked at 12.3 inches on April 1st, which is **43% of normal**. Lake Oroville storage is at 40% of total capacity and 64% of normal. The San Luis Reservoir has a current volume of 54% of the reservoirs total capacity and is 117% of normal.

The Department of Water Resources (DWR) has set the State Water Project (SWP) “Table A” allocation at 35%. This allocation provides Metropolitan with approximately 669,025 AF in SWP deliveries this water year.

On the Colorado River system, snowpack is measured across four states in the Upper Colorado River Basin. As of April 15, 2018, snowpack measured at 74% 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 is projecting that there is a 0% chance of a shortage on the Colorado River in 2019, increasing to about 57% in 2020.



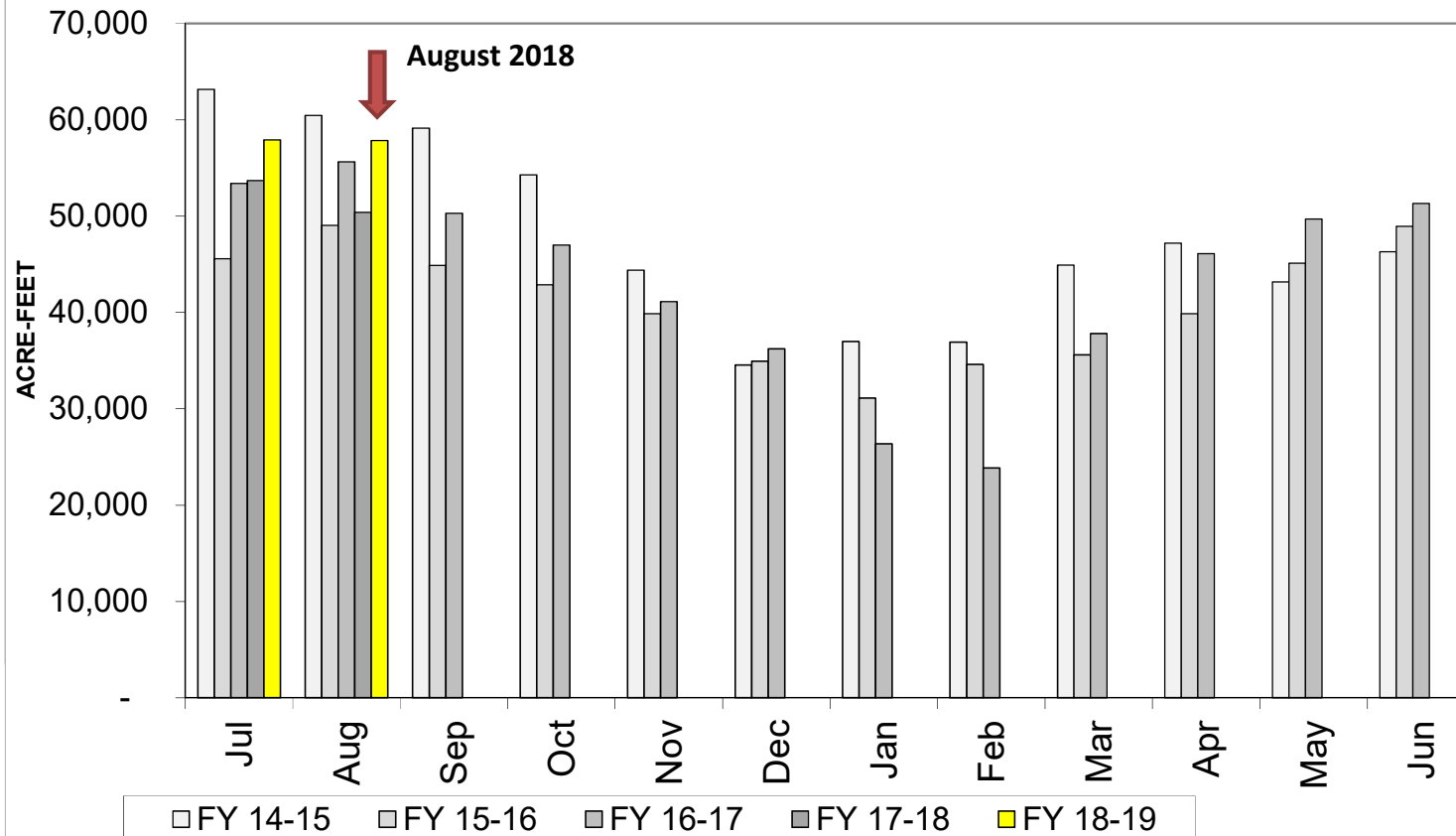
Fig. 1 OC Water Usage, Monthly by Supply with projection to end of fiscal year



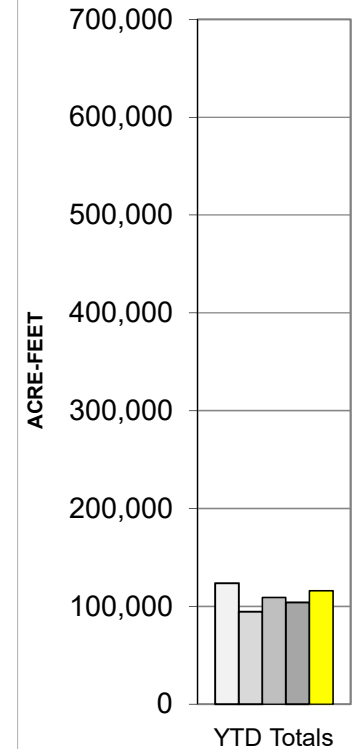
- [1] Imported water for consumptive use. Includes "In-Lieu" deliveries and CUP water extraction. Excludes "Direct Replenishment" deliveries of spreading water, "Barrier Replenishment" deliveries, and deliveries into Irvine Lake.
- [2] GW for consumptive use only. Excludes In-Lieu water deliveries and CUP water extraction that are counted with Import. BPP in FY '17-18 is 75%.
- [3] MWDOC'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

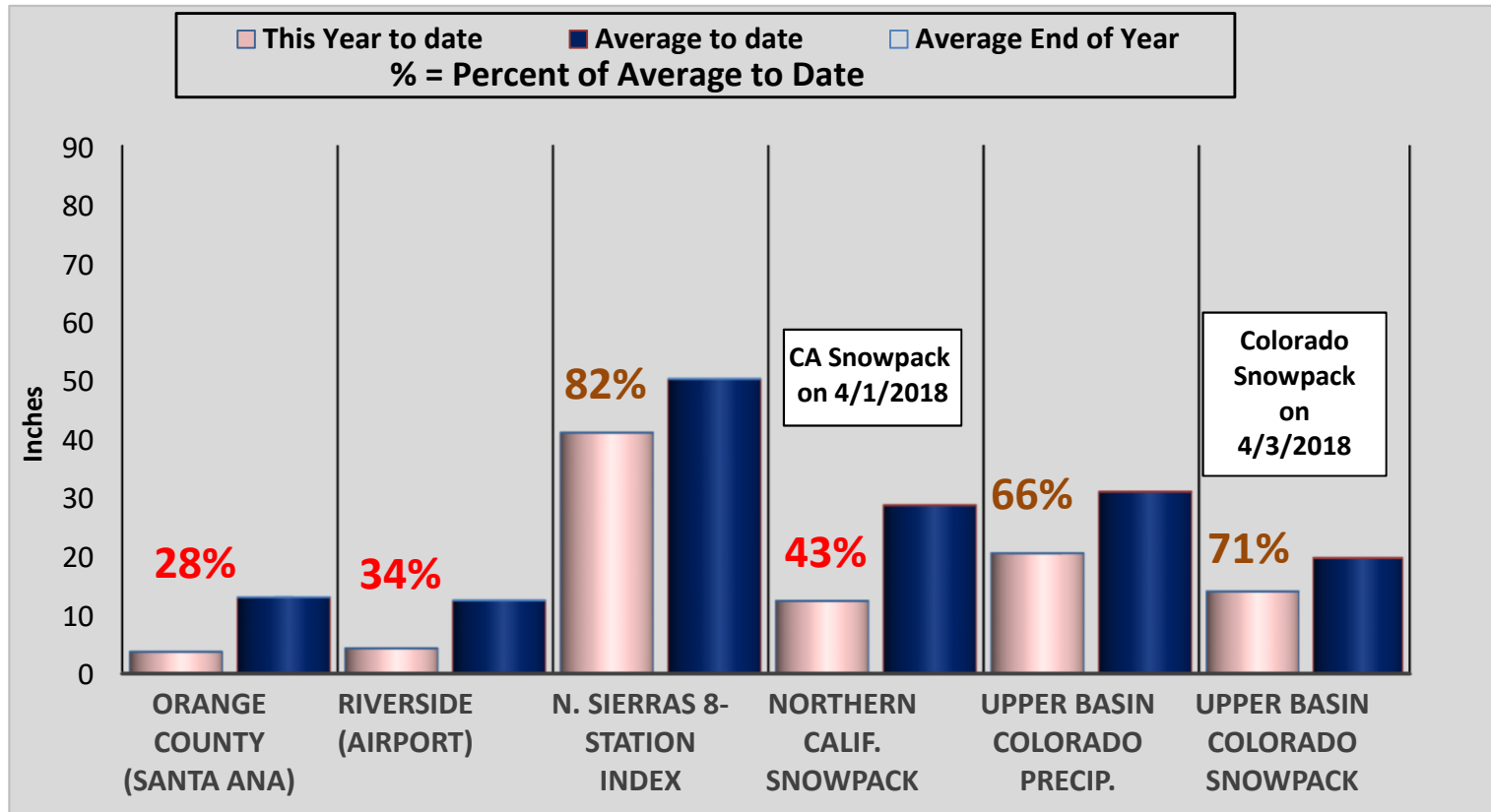


Partial Year Subtotals



[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 September 2018

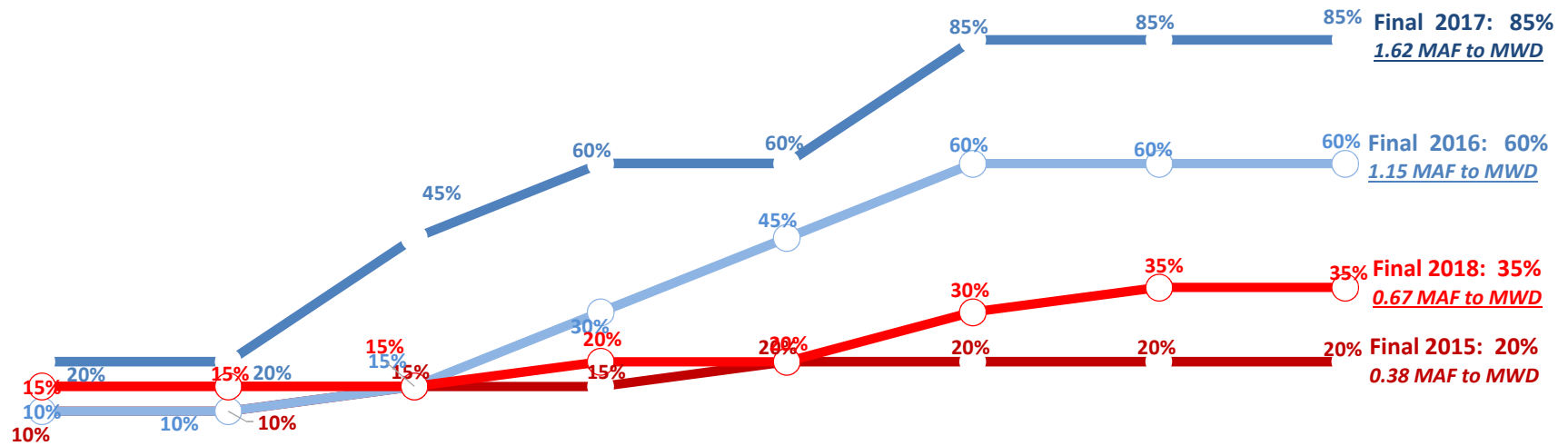


* The date of maximum snowpack accumulation (April 1st in Northern Calif. , April 15th in the Upper Colorado Basin) is used for year to year comparison.

SWP TABLE A ALLOCATION

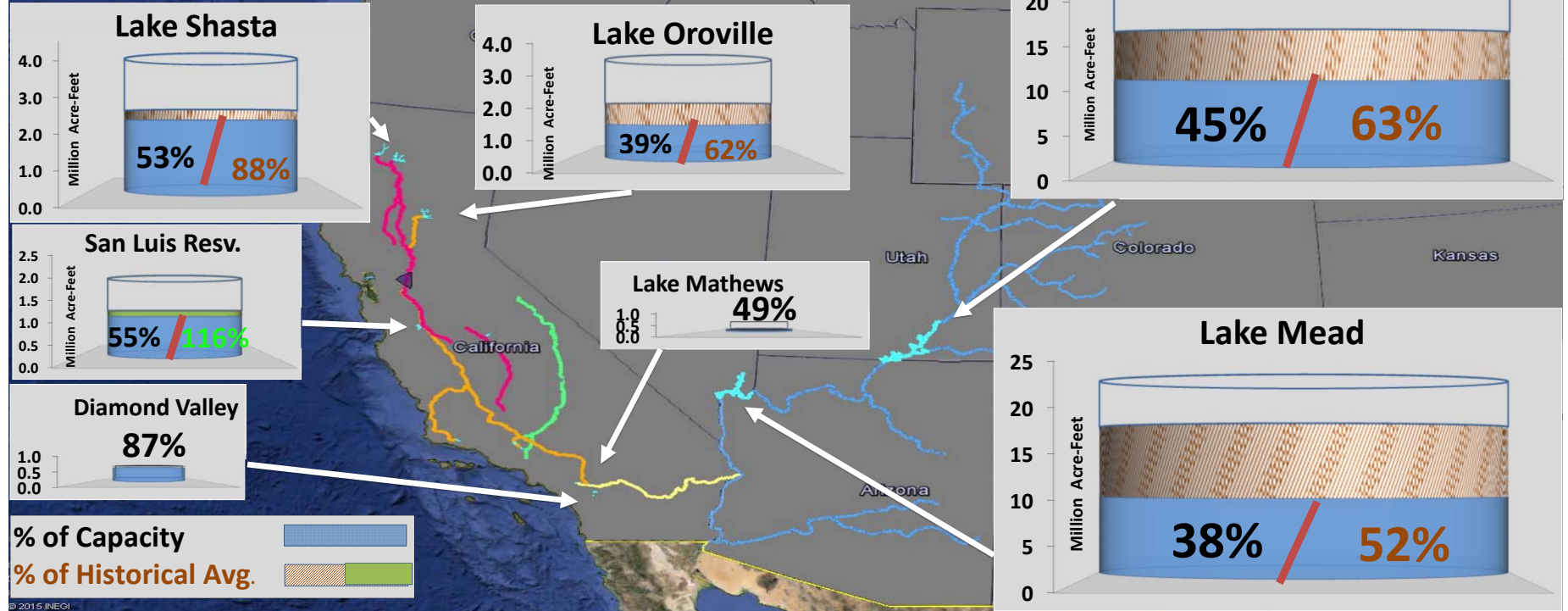
FOR STATE WATER PROJECT CONTRACTORS

Final 2019: ???

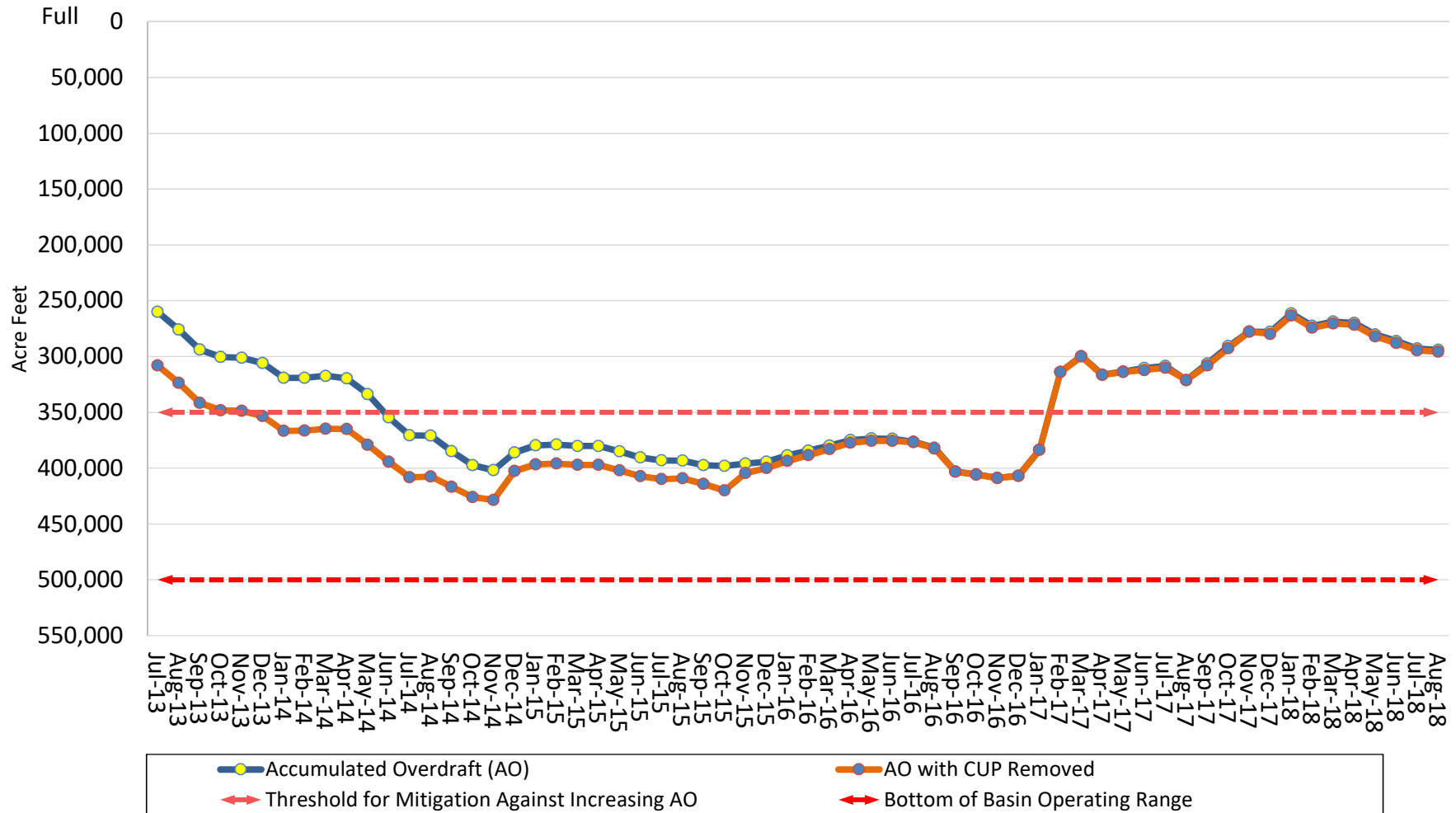


Water Year 2015 Water Year 2016 Water Year 2017 Water Year 2018 Water Year 2019

State Water Project, Colorado River, and MWD Reservoir Storage
as of October 1, 2018



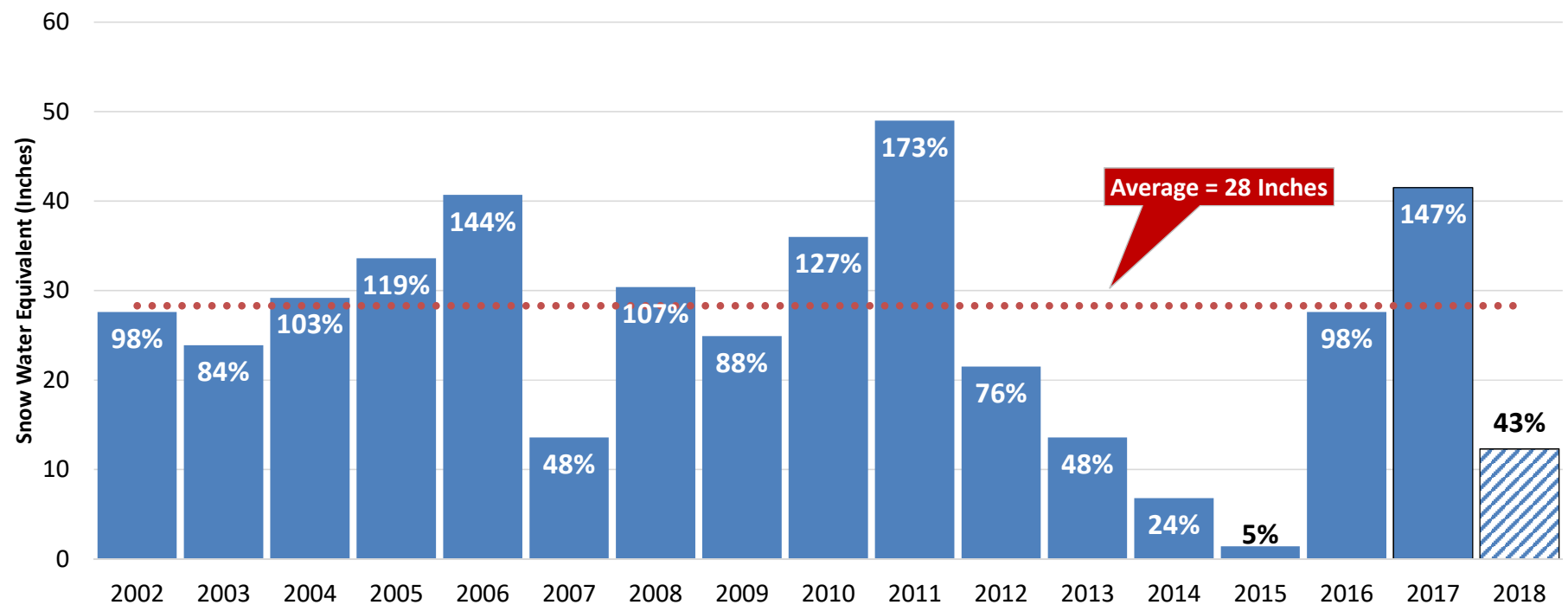
Accumulated Overdraft of the OCWD Groundwater Basin as of August 2018



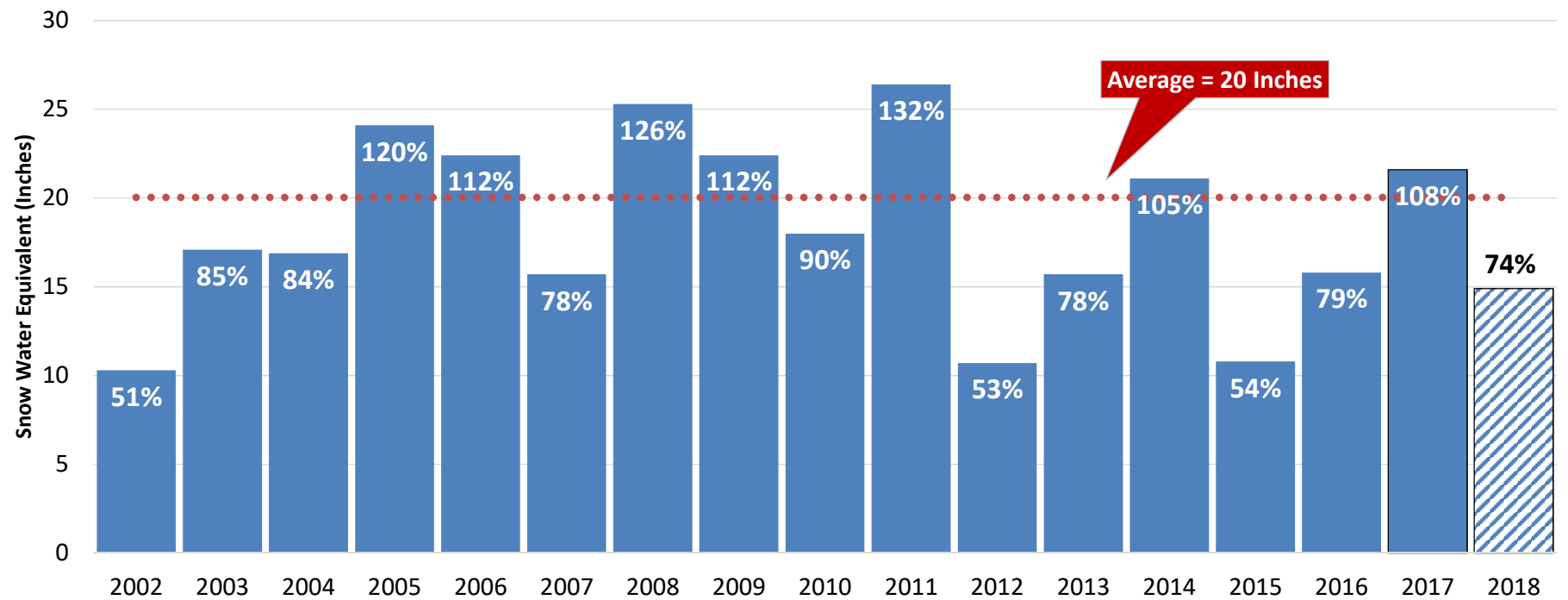
| | Jul-17 | Aug-17 | Sep-17 | Oct-17 | Nov-17 | Dec-17 | Jan-18 | Feb-18 | Mar-18 | Apr-18 | May-18 | Jun-18 |
|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| AO (AF) | 308,488 | 321,131 | 306,280 | 290,800 | 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 | | | | | | | | | | |
| AO w/CUP removed (AF) | 294,572 | 295,790 | | | | | | | | | | |



Historical Northern California April 1st Peak Snow Water Equivalent

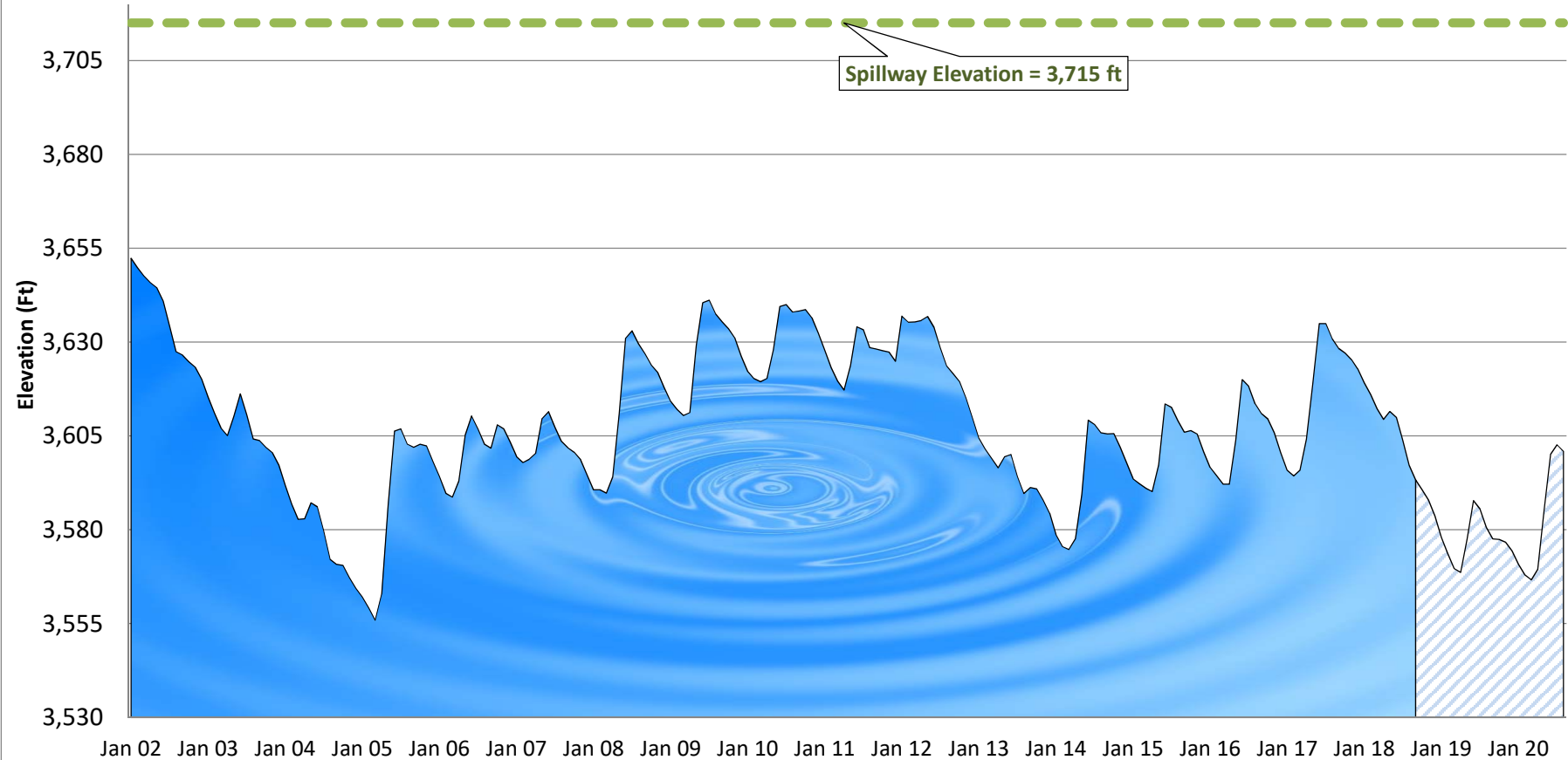


Historical Colorado Basin April 15th Peak Snow Water Equivalent



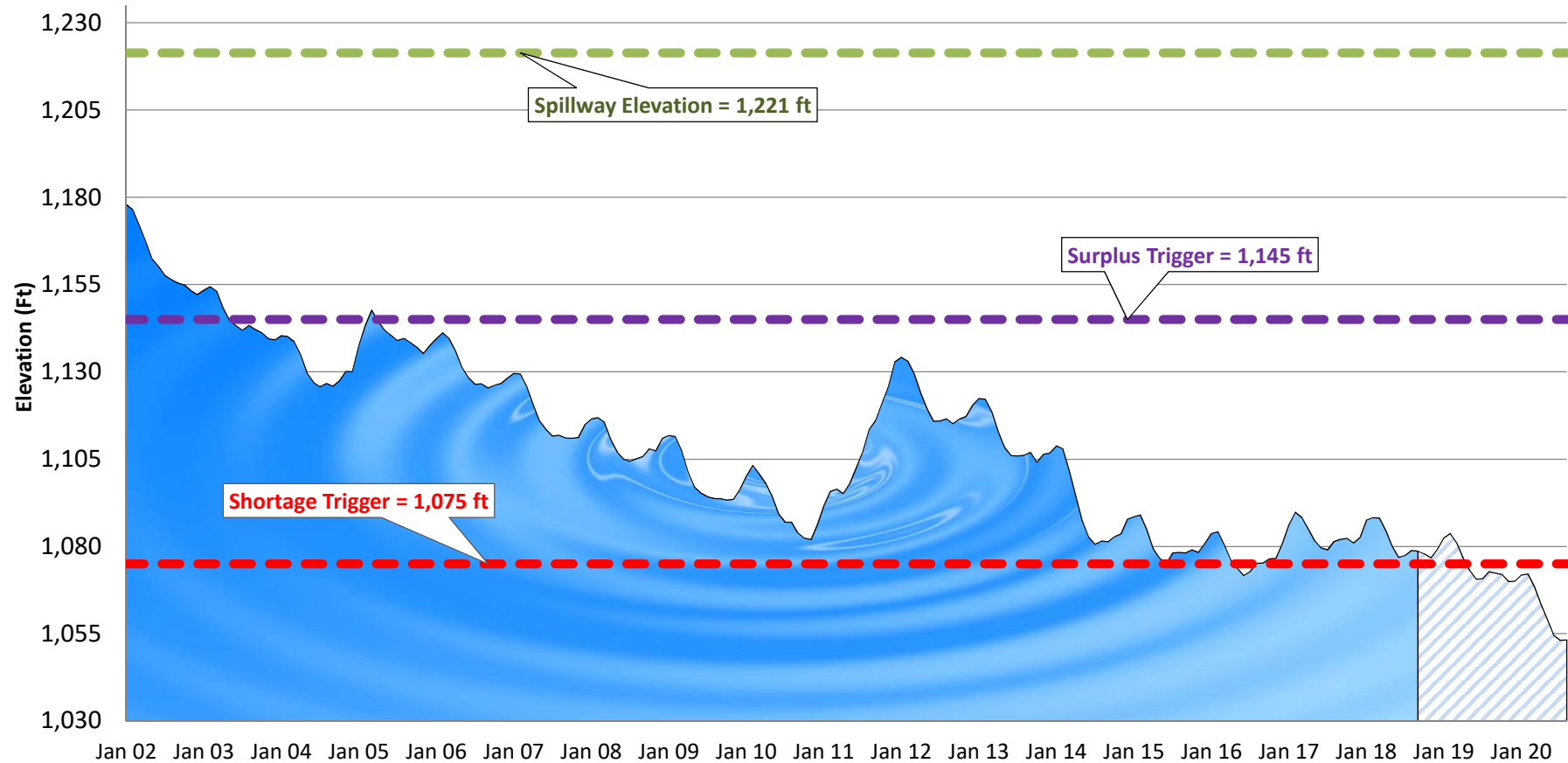
Lake Powell Levels: Historical and Projected projection per USBR 24-Month Study

■ Historical □ Projected

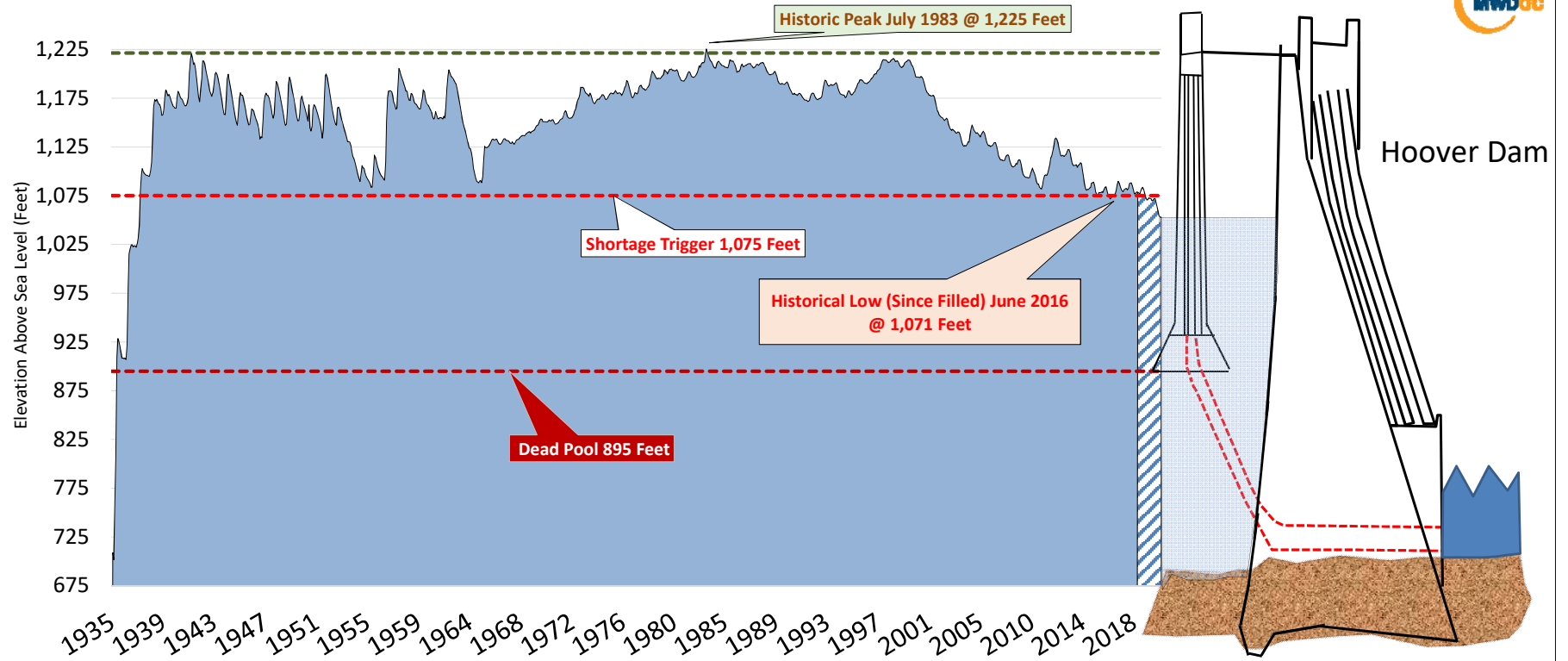


Lake Mead Levels: Historical and Projected projection per USBR 24-Month Study

■ Historical □ Projected



Lake Mead Historical Water Elevation Level



WILL SERVE REQUEST STATUS REPORT

(September 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 |
|----------------|---------------------------------|--------------------------------------|------|-----------------------------|--------|-------------|
| 9/14/17 | Elite Hospitality, Inc. | Home 2 Suites | ND | 23061 Ave. de la Carlota | Issued | 9/14/17 |
| 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 |
| | | | | | | |
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| | | | | | | |

ND = New Development

TI = Tenant Improvement

EL TORO WATER DISTRICT
UNAUTHORIZED DISCHARGE SUMMARY
YEAR OF 2018

| DATE | PUBLIC / | SPILL | LOCATION | REASON | IMMEDIATE CORRECTIVE | PREVIOUS MAINTENANCE | | POST-INCIDENT PREVENTIVE | RWQCB | DISCHARGED | SPILL VOLUME (PUBLIC) Gallons | | SPILL VOLUME (PRIVATE) Gallons | | REGULATORY NOTIFICATION |
|------------------|----------|-------|-----------------------------------|--------------------------|---|----------------------|-----|---|-------|----------------------------------|----------------------------------|---------|-----------------------------------|---------|---|
| | PRIVATE | TYPE | | | MEASURES | CLEANING | TV | MEASURES | | TO | CONTAINED | SPILLED | CONTAINED | SPILLED | AND RESPONSE |
| 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 Vacummed up standing water | N/A | NA | Collections Crew Vacummed 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 | | | | | | | |
| | | | | | | | | | | | | | | | |
| 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 |

Bob Hill

From: SWRCB Office Research, Planning & Performance <drinc@waterboards.ca.gov>
Sent: Thursday, October 11, 2018 12:33 PM
To: Bob Hill
Subject: Monitoring Report Acknowledgement for September 2018

Hello Robert Hill

Thank you for your Monitoring Report. Below is the information you have submitted for the month of September 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 | 0918 |
| Stage/Mandatory | None No |
| Days Outside Irrigation | |
| Total Potable Water Production | 724.38 AF |
| 2013 Same Month Production | 963 AF |
| CII Water | 74.61 AF |
| Commercial Agricultural Water | 0 AF |
| Commercial Agricultural Water 2013 | AF |
| Recycled Water | 171.40 AF |
| Non-revenue Water | AF |
| Residential Use Percentage | 63.93 % |
| Population | 48628 |
| Estimated R-GPCD | 103 |
| Number Complaints | 3 |
| Number Follow-ups | 3 |

| | |
|-------------------------|---|
| 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

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% | 580.76 | 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 |
| Total | 32,788.02 | 182.01 | 25,064.24 | 176.04 | -7723.78 | -24% | 67.95% | 16,838.30 | 93 | 1,582.74 | 4,673.42 |

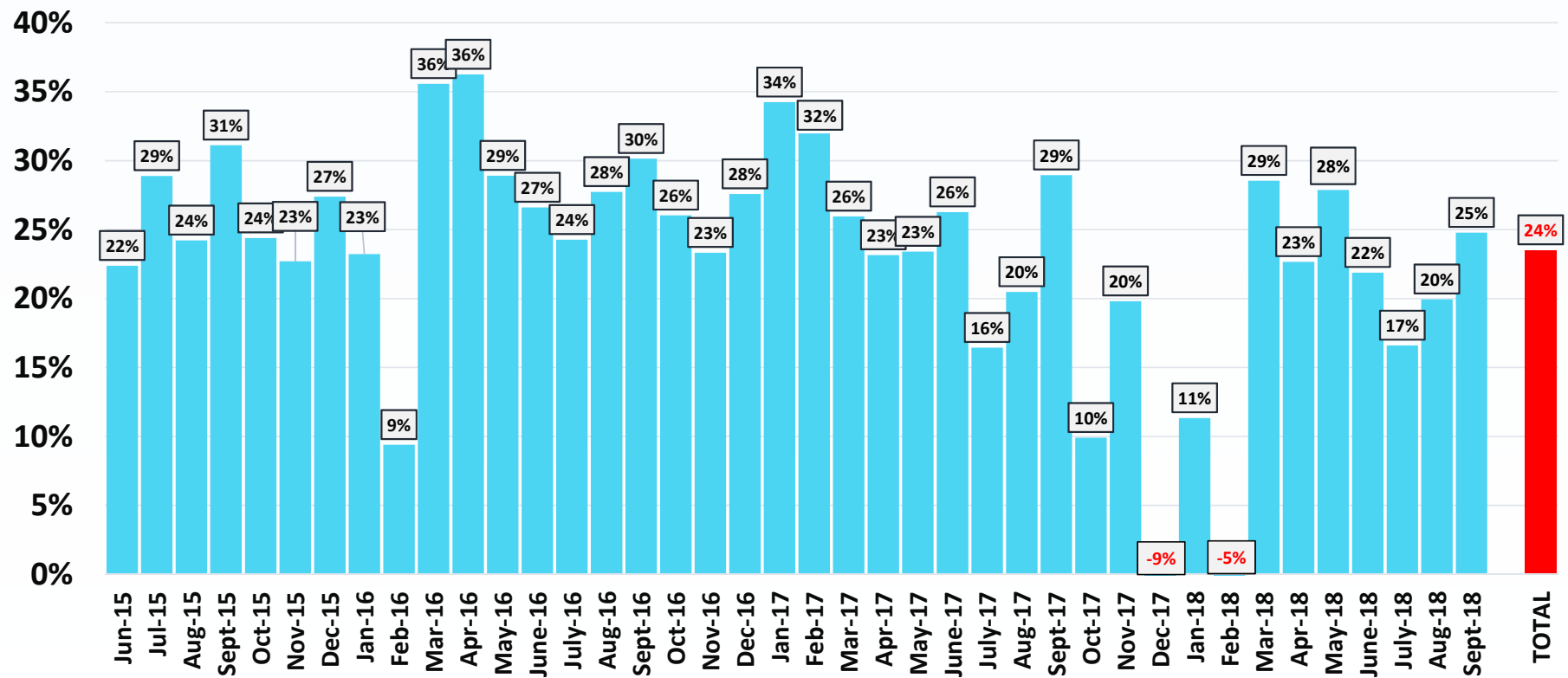
(WRP) Tertiary Treatment Plant

Sep-18

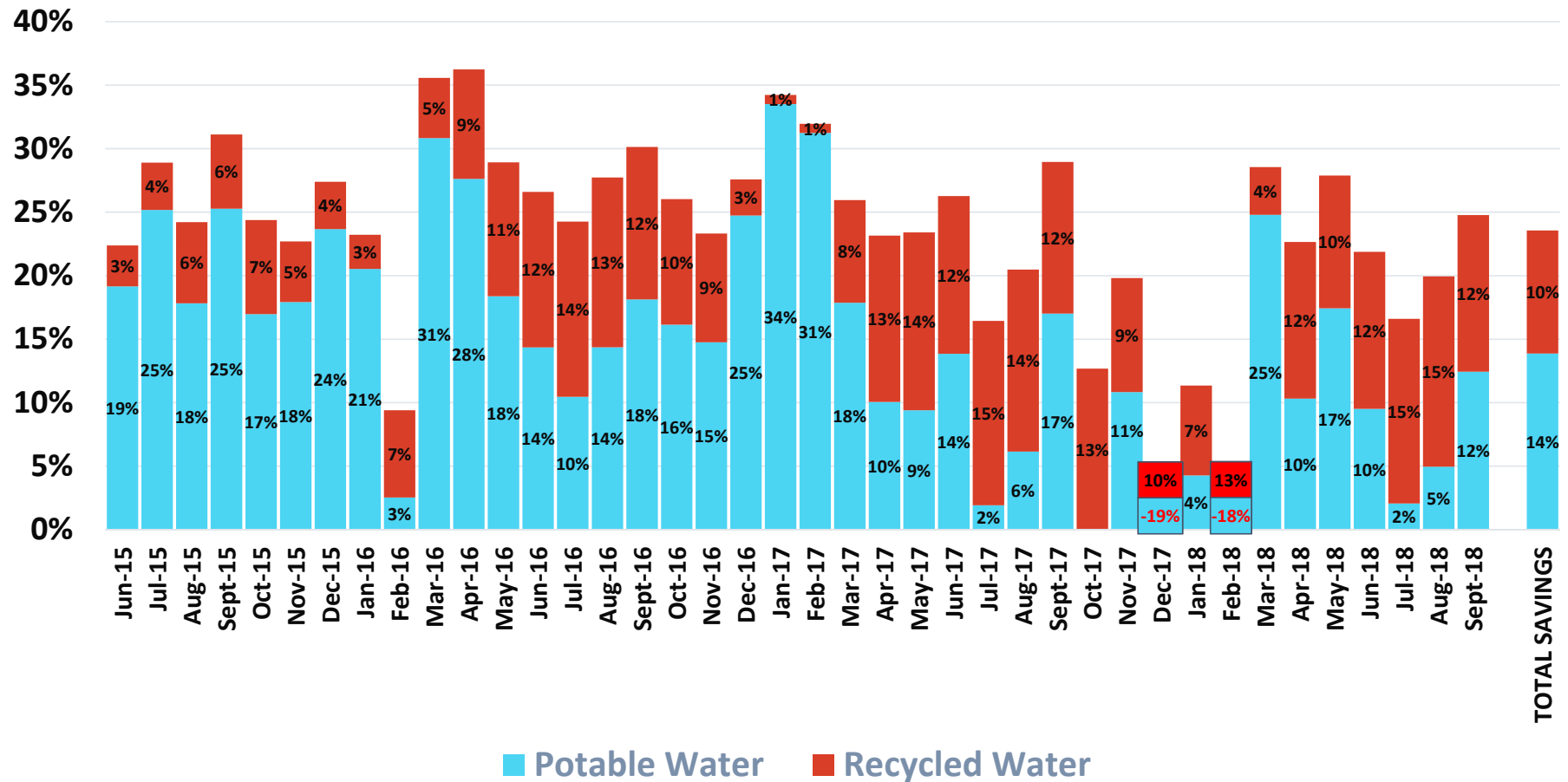
Total Recycled Water Production

| Flow, Units | G.C. Irrigation | Main Distribution | WRP Irrigation/Utility | Total, Production |
|---|-----------------|-------------------|------------------------|-------------------|
| Avg. Daily Q MGD | 0.457 | 1.290 | 0.115 | 1.862 |
| Total Q MG | 13.712 | 38.703 | 3.435 | 55.850 |
| Total Acre Feet | 42.081 | 118.775 | 10.542 | 171.398 |
| * 1,168,650 Gallons of Potable Water Used to Supplement the Recycled Water Total Production | | | | |

ETWD WATER SAVINGS COMPARED TO 2013



ETWD WATER SAVINGS COMPARED TO 2013



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Nicholas Crockett
Allison Leavitt

Municipal Water District of Orange County, California
Washington Update
October 9, 2018

To provide some perspective of what is happening in Washington as this Report is being written, the Senate voted to confirm Brett Kavanaugh to the Supreme Court on Saturday, October 6th, by a vote of 50-48, after a very bitter nomination process. To say the least, tensions have been at a very high level here in the Capitol Building Complex during the last two weeks.

Meanwhile on the Appropriations front, Federal Funding for the new fiscal year has either become law, as seen with the Energy and Water Appropriations bill and several other agency funding bills--or federal funding through a short term Continuing Resolution (CR) has been provided until December 7, 2018. This is the case for the Interior/EPA Appropriations Bill—which is still awaiting final approval from the Congress.

As previously discussed, one of the issues we are tracking is the Calvert Language in the Interior/EPA Appropriations Bill dealing with the Waterfix Project. It is one of the many policy riders currently under consideration in an ongoing negotiation between the House and the Senate in the appropriations process—and an agreement on these policy riders was unable to be reached before the House adjourned at the end of September. After the November election, the House returns to session on November 13th and depending upon the outcome of the mid-term elections—the WaterFix language could be approved in the final bill or could be rejected with many of the other policy riders.

As a reference point, the Senate had generally kept all of its Appropriations Bills free from controversial riders while the House has had many controversial provisions in its bills.

The Water Resources Development Act of 2018 (the WRDA Bill), S 3021, is now being debated on the Senate Floor this week and is expected to pass without difficulty later this week. This legislation provides the legal authorities for the Army Corps of Engineers to perform its core missions and is national in its scope. It authorizes a number of new Army Corps of Engineers port, levee and ecosystem restoration projects, and reauthorizes the Safe Drinking Water Act for the first time in two decades.

The Mid Term Elections:

As the House and the Senate begin campaigning in earnest in October, the Republican controlled House continued to show signs that the control of the House may flip to the Democrats. Numerous media outlets are currently reporting that the Democrats have been gaining ground this year seeking to erase their 23 seat deficit.

Among other publications, *Politico* reports that there are now 209 seats either firmly or leaning in the Democratic column — only nine shy of the 218 needed to win control. The GOP still has a path to keep the House, but it would require either a near-sweep of the toss-up races or a significant change in the political environment in the final four weeks of the campaign.

It is noteworthy to mention that the polling for this analysis above was done before the Kavanaugh vote on Saturday and there is speculation that the Republican generic ballot has picked up a couple of points in the last week as a result of this confirmation process in the Senate. That said, under even the most positive of circumstances, Republican House Members or senior staff will tell you privately that if the Republicans do maintain control of the House, it will be by a very narrow margin.

On the Senate side, several months ago, a flip of the Senate to the Democrats was seen as impossible. Then there was a slight shift in some key states suggesting there was a “chance” the Democrats could flip the Senate. Now the feeling here is the GOP is still likely to keep the Senate and may increase its numbers slightly. The current majority in the Senate is 51 Republicans to 49 Democrats. As of today, there are four weeks to go until the election and this process is very fluid.

Drought Contingency Plan:

During our recent PAL Board Call, there was a question that arose regarding the Drought Contingency Plan affecting California, Nevada and Arizona, and more specifically, the role that the newly appointed Senator Kyl (R-Arizona) might play in the resolution in this issue.

I have visited with Senator Kyl's key staff handling this matter. Senator Kyl was appointed to serve as a U.S. Senator to fill the vacancy created by the death of Senator John McCain. His office advises me that he is only expecting to serve as a Senator until the "approximate January 2019 period" as the Arizona Governor is expected to appoint another individual to serve the balance of the two year period—until the next November 2020 General Election.

That said, due to Senator Kyl's experience as a former water attorney, coupled with his tenure in the both the House of Representatives and the Senate with key water assignments, he and his staff are trying to move the process along as quickly as they can. They recognize the importance of reaching a Drought Contingency Agreement for Arizona and for the states of Nevada and California.

The Kyl office is tracking this issue very closely. The current staffer working on this is the former Senator McCain water staffer. The office is working on a "one or two sentence piece of legislation" in case it is needed to provide the Department of the Interior the ability to manage the Colorado River under the new guidelines of a new drought management agreement. One of the complications for the State of Arizona deals with the various Indian Lands contained within the State and the water rights held by those tribes.

Kyl's office reports that the water officials in Arizona are now making progress towards reaching an agreement. Until only recently, Arizona has had difficulty moving through this process. However, since the mid-summer period, Arizona water managers have been meeting twice a month to finalize an agreement that the Arizona State Legislature can approve. The goal of all of these discussions has been to have an agreement in place by mid December 2018. It is unclear to Senator Kyl's office if the State Legislature would be able to "approve" such a proposal by that date or that such approval would be more likely in January 2019. The Senator's office speculates there could be a scenario in which there could be an agreement in principle reached by December, but due to scheduling related issues, the legislature may not be able to vote on it until early 2019.

Meanwhile, Commissioner Brenda Burman of the Bureau of Reclamation has asked Arizona to move swiftly as the Bureau would like to have the drought contingency plans in place before the end of the year.

Lake Mead is 38% full. If the water level reaches the 1,075 feet level, at the end of any given year, the Department of the Interior will declare a "shortage" and supplies to California, Arizona and Nevada will be cut back. The central idea of the new agreement is to begin taking water cutbacks now, to avoid Lake Mead from going to even lower water levels and hitting or

delay hitting as long as possible that 1,075 foot level. The current guidelines for the management of the Colorado River were put into place in 2007.

Ocean Water Desalination Grant Application from the South Coast Water District

Director Barbre and Director Green from the South Coast Water District, along with key senior staff from both MWDOC and SCWD, participated in a conference call with the Acting Deputy Commissioner of the US Bureau of Reclamation in September. The purpose of the call was to discuss the unique aspects and the background behind the Doheny Beach Desalination Project. SCWD is in the process of applying for a federal grant for this project. The Deputy Commissioner was very appreciative of the information that was provided. The grant funding that SCWD is seeking was created by the 2016 WIIN Act which provided specific construction funding for Desalination Projects and MWDOC was instrumental in having the legislation include funding opportunities for such Desal facilities.

JCB 10-9-18

Memorandum

To: Municipal Water District of Orange County
From: Syrus Devers, Best Best & Krieger
Date: October 15, 2018
Re: Monthly State Political Report

Legislative Report

Between 2,000 and 2,500 bills get introduced in the Legislature each year of the biennial session. Of those introduced in this year, 1,217 made it the Governor's desk. Of that roughly lucky half, 1,016 were signed into law. Republican legislators have a tough time getting bills through a legislature controlled by the Democrats, but when a Republican bill does survive it has about the same odds of getting signed as a Democrat's bill. Republican-authored bills were vetoed 15% of the time compared to 18% for Democrats. These numbers are typical of most years.

Reasonable minds can disagree over the most significant bills of the session, but AB 375 (Chau) on consumer privacy, SB 1054 (Hertzberg) on bail reform, and SB 822 (Weiner) on net neutrality, are clear standouts. Honorable mention goes to SB 894 (Dodd) on wildfire liability. Others might list SB 100 (De Leon) that requires 100% renewable energy by 2045, but the Legislature has a lot of time to change its mind after everyone who voted for the bill is long gone; the final verdict on this bill is yet to be written. The most significant veto is probably AB 3080 (Gonzalez-Fletcher), part of which would have prohibited mandatory arbitration agreements in employment contracts.

BB&K staff takes no enjoyment out of being right about SB 998 (Dodd) on water service shutoffs being signed, and AB 2050 (Caballero) on small district consolidation being vetoed, and why. In the veto message Governor Brown clearly telegraphed that the veto was over his displeasure at the failure of his initiative to establish a tax on water which would, "...address the most significant problem with providing safe drinking water - a stable funding source to pay for ongoing operations and maintenance costs." Condolences to the Eastern Municipal Water District and the CMUA who put in a Herculean amount of work with nothing but a petulant veto to show for it.

Election Preview

Here are some legislative races to watch in November from a Sacramento point of view. (Meaning, "follow the money.")

Senate

SD 12 (Salinas-Stockton): Incumbent—Anthony Cannella (R). This is a likely pick up for the Dems. Cannella is the quintessential moderate Republican and fits the district, his father represented part of the district as a very moderate (read conservative) Democrat, but the Reps don't have another Cannella. They do have Supervisor Rob Poythress who has put significant amounts of his own money into the race from his successful agribusiness, but almost all of the Sacramento money has gone to Assembly Member Anna Caballero. She's been waiting for another shot at this Senate seat since losing to Cannella in 2010. Registration is 45% Dem, 27% Rep, 24% DTS. Both sides have spent real money on the race with Caballero spending \$1.1M to Poythress' \$1.6M, but Caballero enters the home stretch with \$465K on hand to Poythress' \$56K.

SD 34 (Santa Ana-Westminster): Incumbent—Janet Nguyen (R). This is a real race because the Dems have a big-name candidate in Tom Umberg. Both sides have spent real money this year with Nguyen at \$1M slightly edging out Umber at \$894K. Nguyen enters the home stretch with more than Umberg at \$525K on hand to his \$268K, but Umberg has more than enough to be competitive. Registration is 39% Dem, 30% Rep, and 27% DTS. This all points to a competitive race, but the Sacramento money is going to Nguyen. The overwhelming source of funds for Umberg is the Dem Party and organized labor, while PAC managers who are not already on one side (i.e., organized labor) are backing Nguyen. The Sacramento pundits are expecting Nguyen to survive the challenge.

Assembly

AD 32 (Hanford): Incumbent—Rudy Salas (D). Registration is 46% Dem, 25% Rep, and 25% DTS. The DTS votes trend conservative in this district, which makes it competitive, but the reality is that the odds of Salas losing after winning twice in tougher elections is remote. How much Salas has in the bank isn't relevant because the amount he has to work with is pretty much whatever he needs. Still, his opponent is no slouch. Justin Mendes has spent \$570K so far but may be at the end of his rope with only \$84K on hand. Sacramento PAC managers aren't holding their breath on this one and have lined up behind Salas.

AD 38 (Santa Clarita): Incumbent—Dante Acosta (R). Registration is evenly split at 35% for each party and 26% DTS. This would ordinarily be safe for the Reps, but Dems are motivated and have the money to spend. The Dem challenger, Christy Smith, has spent \$920K so far, and has \$250K to spend on the home stretch. This is nearly all party and organized labor money. Non-aligned Sacramento PAC managers are avoiding this one. This, and AD 60 (see below), may be the races to watch.

AD 40 (Redlands): Incumbent—none. (Steinorth (R)) Registration is 41% Dem, 31% Rep, and 23% DTS. This could be a nail biter, but it probably won't be. A high turnout for Dems would capture this seat, so where's the money? The Dem, James Ramos, has spent real money and has a lot more to spend in the last 30 days. \$1.3M spent so far and \$385K cash on hand at the end of September. That's a lot for a Senate race; in an Assembly race it's a huge amount. His Rep challenger, Henry Nickels, is way behind with \$211K spent so far and \$128K on cash on hand. Almost all of that is from the party in form or another. Ramos, on the other hand, is receiving support from a diverse group of Sacramento PACs.

AD 60 (Corona-El Cerrito): Incumbent—Sabrina Cervantes (D). Registration is 40% Dem, 32% Rep, and 24% DTS. This is a real race. The Rep challenger, Bill Essayli, captured more votes in the Primary in a head-to-head matchup, but conclusions may be hard to draw. It could be that with only two candidates in the Primary, which guaranteed each a win, that maybe they didn't campaign that hard. The spending patterns tend to support that scenario. Cervantes has spent \$1.5M so far, a whopping amount, but \$1M of that has been spent since the Primary. Essayli is significantly behind in funds and has followed the same pattern. Total spend so far is \$530K with \$127K on hand, but that's enough to be relevant in an Assembly race. This may be the main race to watch. Independent Sacramento PAC managers wouldn't dare cross the Assembly Speaker on this one. They've lined up behind Cervantes and are willing to risk a loss on this one.

AD 76 (Carlsbad): Incumbent—none. (Rocky Chavez (R)) Whoops--no Rep in the race. Automatic pickup for the Dems after six Reps jumped into the Primary and let two Dems win it all. This isn't one to watch—obviously—but interesting nonetheless. The highest vote-getting Rep candidate, Phil Graham, captured 23,155 votes. The 2nd Dem, Tasha Boerner Horvarth, edged him out with 27,566. The votes of any of the next four Rep candidates would have put Graham in the #2 spot. However, it may be a blessing in disguise for the Reps: the percentage of total votes cast in the primary were 52%/48% Dem/Rep. The Reps may have spent scarce resources on this race and still lost in the General Election where a higher percent of Dem voters are expected to turn out.

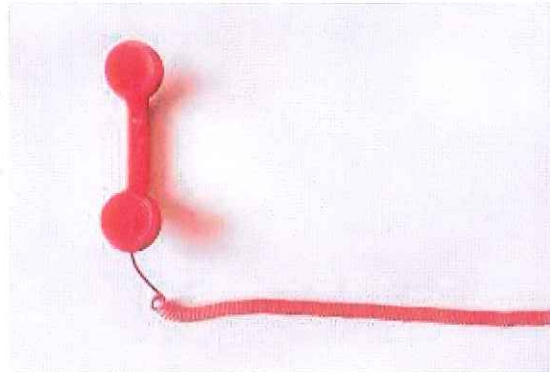
Conclusion: the Dems may pick up one in each house, which won't make 2019 fundamentally different. The Governor's race is the only real change on the horizon.

The County of Orange Report

October 9, 2018
by Lewis Consulting Group

Orange County Law Enforcement Scandal Expands

Every phone call that originates from the Orange County jail is recorded unless a block is placed on the number receiving the call. A list of such numbers is maintained and updated, but starting in 2015 something went wrong. Among the numbers to be blocked are the Orange County Public Defenders Office and defense attorneys.



The county vendor, Global Tel Link, blamed the recordings on a failed software update. They claim only 1,079 phone calls were inappropriately recorded. Defense attorneys and others claim the number is much larger.

Even more troubling is that a minimum of 58 phone calls were assessed by sheriff personal. According to California law, their monitoring could be charged as felonies.

Supervisor Spitzer pointed out that over 1,300 phone numbers were supposed to be on the DO NOT RECORD LIST, but for some period of time only 72 numbers were offered that protection. Led by harsh criticism by Supervisors Spitzer and Nelson, a variety of options including the termination of the vendor will be agenized at a future board meeting.

In the meantime, this scandal on the heals of the Orange County Jail Snitch, raises new questions regarding the fate of criminal cases, county liability and possible impacts in the upcoming November election.

October Predictions

With the caveat that the last month leading up the election is a life time and anything can happen, I am stepping out on a limb with final pre November PAL meeting predictions.

Previous charts were based on competitiveness of races. This chart for ease of reading will be based on my confidence level of an accurate prediction. For example, the first race listed I am next to certain of the pick. The last race listed is a Wild A** guess.

This tumultuous election season has the most uncertainty I have ever seen. Nationally

three large motivating factors are the President's continuing unpopularity, the booming economy and the aftermath of the Supreme Court confirmation process. The national mood will affect local turnout and hence all local races.

| <u>Office</u> | <u>Winner</u> | <u>Comes up Short</u> |
|-------------------------------------|---------------|-----------------------|
| Sheriff | Barnes | Nguyen |
| 49 th Congressional | Levin | Harkey |
| 65 th Assembly District | Quirk Silva | Coronado |
| 72 nd Assembly District | Lowenthal | Diep |
| 39 th Congressional | Kim | Cisneros |
| 45 th Congressional | Porter | Walters |
| 74 th Assembly District | Harper | Petrie-Norris |
| District Attorney | Spitzer | Rackauckas |
| 4 th District Supervisor | Shaw | Chaffee |
| 48 th Congressional | Rohrabacher | Rouda |

NOVEMBER 6, 2018

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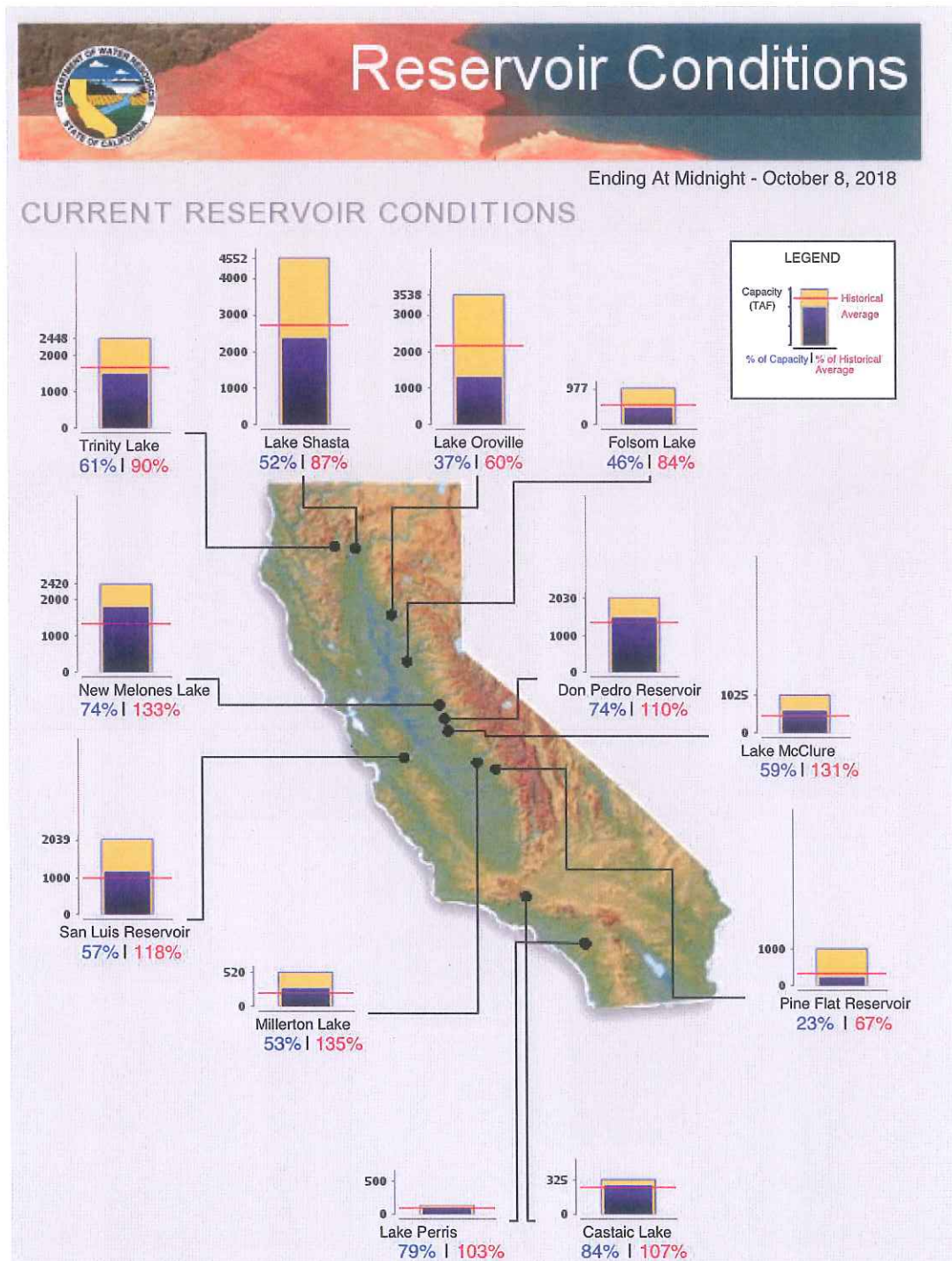
The October 10th LAFCO meeting took place after our print deadline, so any matters of note will be discussed verbally at PAL.

The agenda is lacking in substance. The only item on the agenda is a consent calendar item related to the Focused Municipal Services Review for the City of San Juan Capistrano Water and Waste Water Utility. Included are a statement of determinations and CEQA exemption.

Although not agenized for action, a meeting of the LAFCO AD HOC Committee dealing with policies and procedures and workplace review took place on Monday, October 1st. The committee is made up Commissioners McGregor, Brothers and Davert. Apparently, discussion largely mirrored prior verbal agreement on amendments between LAFCO staff and Special Districts. However, marked up documents are not yet available.

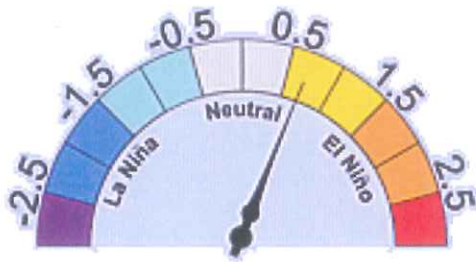
Drought Taking Its Toll On Northern California Reservoirs

Four of our state's largest reservoirs, all facilities in Northern California, are now showing the effect of our state's latest drought. Lake Shasta, Oroville, Folsom and Trinity are each running below their average capacity for this time of year at 88%, 61%, 84% and 90% respectively. Oroville (which has had other challenges) is now only 38% full while Shasta is barely over 50%. The other eight measured southern reservoirs, are doing much better with seven over 100% of normal. Overall, strong early season rains could completely restore the Northern California deficiency.



It's Official - We Are Now in La Niña Mode

ENSO METER



And it Burns, Burns, Burns, Burns, this Ring of Fire (Apologies Johnny)

Even more evidence that the so-called Ring of Fire is literally exploding with activity. On Friday, September 28, 2018, a 7.5 earthquake affected the countries of Indonesia, Philippines and Malaysia. The quake triggered an 18 foot tsunami that swept over the Indonesian island of Sulawesi, killing more than 1,400 people. Days later, a new volcano in Indonesia erupted spewing ash 20,000 feet in the sky. Scientist have not yet determined whether or not the earthquake triggered the new volcano. Two days later, a 6.6 earthquake rocked Fiji as well.

MWDOC

PAL Committee

Prepared by Best Best & Krieger
October 15, 2018 – Final Bill Status

A. Priority Support/Oppose

| Measure | Author | Topic | Status | Brief Summary | Position | Priority |
|-------------------------|-----------------------------|---|---|---|------------|-----------------------------|
| AB 1668 | Friedman D | Water management planning. | 5/31/2018-Approved by the Governor. Chaptered by Secretary of State - Chapter 15, Statutes of 2018. | Would require the State Water Resources Control Board, in coordination with the Department of Water Resources, to adopt long-term standards for the efficient use of water, as provided, and performance measures for commercial, industrial, and institutional water use on or before June 30, 2022. The bill would require the department, in coordination with the board, to conduct necessary studies and investigations and make recommendations, no later than October 1, 2021, for purposes of these standards and performance measures. | Support | A. Priority Support/Oppose |
| AB 2050 | Caballero D | Small System Water Authority Act of 2018. | 9/28/2018-Vetoed by Governor. | Would create the Small System Water Authority Act of 2018 and state legislative findings and declarations relating to authorizing the creation of small system water authorities that will have powers to absorb, improve, and competently operate noncompliant public water systems. The bill, no later than March 1, 2019, would require the state board to provide written notice to cure to all public agencies, private water companies, or mutual water companies that operate a public water system that has either less than 3,000 service connections or that serves less than 10,000 people, and are not in compliance, for 4 consecutive quarters, with one or more state or federal primary drinking water standard maximum contaminant levels as of December 31, 2018, as specified. | Support | A. Priority Support /Oppose |
| SB 120 | Roth D | Water conveyance: use of facility with unused capacity. | 8/31/2018-Failed Deadline pursuant to Rule 61(b)(18). (Last location was S. | Current law prohibits the state or a regional or local public agency from denying a bona fide transferor of water from using a water | Opposition | A. Priority Support/Oppose |

| | | | | | | |
|------------------------|-----------------------------|--|---|---|-----------------------|----------------------------|
| | | | APPR. on 8/31/2018) | conveyance facility that has unused capacity for the period of time for which that capacity is available, if fair compensation is paid for that use and other requirements are met. This bill would, notwithstanding that provision, prohibit a transferor of water from using a water conveyance facility that has unused capacity to transfer water from a groundwater basin underlying desert lands, as defined, that is in the vicinity of specified federal lands or state lands to outside of the groundwater basin unless the State Lands Commission, in consultation with the Department of Fish and Wildlife, finds that the transfer of the water will not adversely affect the natural or cultural resources of those federal and state lands. | | |
| SB 606 | Hertzberg D | Water management planning. | 5/31/2018-Approved by the Governor. Chaptered by Secretary of State. Chapter 14, Statutes of 2018. | Would require an urban retail water supplier to calculate an urban water use objective no later than November 1, 2023, and by November 1 every year thereafter, and its actual urban water use by those same dates. The bill would require an urban retail water supplier to submit a report to the department for these purposes by those dates. The bill would authorize the State Water Resources Control Board to issue information orders, written notices, and conservation orders to an urban retail water supplier that does not meet its urban water use objective, as specified. The bill would authorize the board to waive these requirements for a period of up to 5 years, as specified. | Support | A. Priority Support/Oppose |
| SB 845 | Monning D | Safe and Affordable Drinking Water Fund. | 8/31/2018-Failed Deadline pursuant to Rule 61(b)(18). (Last location was A. APPR. on 8/24/2018) | Would establish the Safe and Affordable Drinking Water Fund in the State Treasury and would provide that moneys in the fund are continuously appropriated to the board. By creating a new continuously appropriated fund, the bill would make an appropriation. The bill would require the board to administer the fund to secure access to safe drinking water for all Californians, while also ensuring the long-term sustainability of drinking water service and infrastructure. | Opposition | A. Priority Support/Oppose |
| SB 998 | Dodd D | Discontinuation of residential water service: urban and community water systems. | 9/28/2018-Approved by the Governor. Chaptered by Secretary of State. Chapter 891, Statutes of 2018. | Would require an urban and community water system, defined as a public water system that supplies water to more than 200 service connections, to have a written policy on discontinuation of water service to certain types of residences for nonpayment available in prescribed | Oppose unless amended | A. Priority Support/Oppose |

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| | | | | languages. The bill would require the policy to include certain components, be available on the system's Internet Web site, and be provided to customers in writing, upon request. | | |
|--|--|--|--|--|--|--|

B. Watch

| Measure | Author | Topic | Status | Brief Summary | Position | Priority |
|-------------------------|-----------------------------------|---|-------------------------------|---|----------|----------|
| AB 2060 | Garcia, Eduardo D | Water: grants: advanced payments. | 9/28/2018-Vetoed by Governor. | Would require the State Water Resources Control Board, within 60 days of awarding a grant from the grant fund, to provide a project proponent that requests an advanced payment and satisfies certain criteria with the requested advanced payment, up to a maximum of \$500,000 or 50% of the grant award, whichever is less, for projects in which the project proponent is a nonprofit organization or a disadvantaged community, or the project benefits a disadvantaged community. The bill would require the advanced funds to be handled as prescribed. | Watch | B. Watch |
| AB 2064 | Gloria D | Integrated regional water management plans: grants: advanced payment. | 9/28/2018-Vetoed by Governor. | Current law, until January 1, 2025, requires a regional water management group, within 90 days of notice that a grant has been awarded, to provide the Department of Water Resources with a list of projects to be funded by the grant funds if the project proponent is a nonprofit organization or a disadvantaged community or the project benefits a disadvantaged community. Current law requires the department, within 60 days of receiving this project information, to provide advanced payment of 50% of the grant award for those projects that satisfy specified criteria. The bill, until January 1, 2025, would require the department to provide a project proponent that requests advanced payment and satisfies certain criteria with advanced payment for those projects of \$500,000 or 50% of the grant award, whichever is less. | Watch | B. Watch |
| AB 2258 | Caballero D | Local agency formation commissions: grant program. | 9/18/2018-Vetoed by Governor. | Would require the Strategic Growth Council, until July 31, 2024, to establish and administer a local agency formation commissions grant program for the payment of costs associated with initiating and completing the dissolution of districts listed as inactive, the payment of costs associated with a study of the services provided within a county by a public agency to a disadvantaged community, as defined, and for other specified purposes, including the initiation of an action, as defined, that | Watch | B. Watch |

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|-------------------------|----------------------------|---|--|---|-------|----------|
| | | | | is limited to service providers serving a disadvantaged community and is based on determinations found in the study, as approved by the commission. | | |
| AB 2339 | Gipson D | Water utility service: sale of water utility property by a city. | 9/28/2018-Approved by the Governor. Chaptered by Secretary of State - Chapter 866, Statutes of 2018. | Would authorize the City of El Monte, the City of Montebello, and the City of Willows, until January 1, 2022, to sell its public utility for furnishing water service for the purpose of consolidating its public water system with another public water system pursuant to the specified procedures, only if the potentially subsumed water system is wholly within the boundaries of the city, if the city determines that it is uneconomical and not in the public interest to own and operate the public utility, and if certain requirements are met. The bill would prohibit the city from selling the public utility for one year if 50% of interested persons, as defined, protest the sale. | Watch | B. Watch |
| AB 3206 | Friedman D | Water conservation: water meters: accuracy and performance standards. | 8/17/2018-Failed Deadline pursuant to Rule 61(b)(15). (Last location was S. APPR. SUSPENSE FILE on 8/6/2018) | Would require the State Energy Resources Conservation, on or before January 1, 2020, to the extent that funding is available, to adopt regulations setting standards for the accuracy of water meters, as described, that, on or after the effective date of those regulations, are installed by a water purveyor or manufactured and sold or offered for sale in the state. The bill would include an exception for a water meter that, as of the effective date of the regulations, a water purveyor possesses, or has entered into a contract to purchase, and has not yet installed. | Watch | B. Watch |
| SB 844 | Monning D | Water quality: agricultural safe drinking water fees. | 8/31/2018-Failed Deadline pursuant to Rule 61(b)(18). (Last location was A. APPR. on 8/24/2018) | Current law requires every person who manufactures or distributes fertilizing materials to be licensed by the Secretary of Food and Agriculture and to pay a license fee that does not exceed \$300. This bill, during calendar years 2019 to 2033, inclusive, would require a licensee to pay to the secretary a fertilizer safe drinking water fee of \$0.008 per dollar of sale for all sales of fertilizing materials intended for farm use and \$0.004 per dollar of sale for all sales of fertilizing materials intended for noncommercial use. This bill, during calendar years 2019 to 2033, inclusive, would require a licensee to pay to the secretary a fertilizer safe drinking water fee of \$0.008 per dollar of sale for all sales of fertilizing materials intended for noncommercial use and \$0.004 per | | B. Watch |

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|---------------------------------|--------------------------|--|---|---|-------|----------|
| | | | | dollar of sale for all sales of packaged fertilizing materials intended for noncommercial use. | | |
| SB 966 | Wiener D | Onsite treated nonpotable water systems. | 9/28/2018-Approved by the Governor. Chaptered by Secretary of State. Chapter 890, Statutes of 2018. | Would, on or before December 1, 2022, require the State Water Resources Control Board, in consultation with the California Building Standards Commission and the Department of Housing and Community Development, to adopt regulations for risk-based water quality standards for the onsite treatment and reuse of nonpotable water, as provided. The bill would authorize the state board to contract with public or private entities regarding the content of the standards. | Watch | B. Watch |
| Total Measures: 13 | | | | | | |
| Total Tracking Forms: 13 | | | | | | |

**Metropolitan Water District of Southern California
State Legislation Matrix 10/1/2018**

Item No. 1f

| Bill Number Author | Amended Date; Location | Title-Summary | MWD Position | Effects on Metropolitan |
|---|---|---|---|---|
| AB 732 Frazier (D) Sponsor: Author | Amended 5/30/17 Held in Senate Appropriations Committee | Delta Levee Maintenance: Delta levee maintenance program was established for reimbursement of costs incurred in connection with maintenance or improvement of project or non-project levees in the Sacramento-San Joaquin Delta. AB 732 sought to extend the current 75% state reimbursement rate for Delta levee maintenance costs in excess of \$1,000 per mile, until July 1, 2020. | WATCH based upon prior position on SB 554 (Wolk) from 2016 | Metropolitan dropped its opposition to AB 732 after the Delta Stewardship Council directed staff to enter into a Memorandum of Understanding with the Central Valley Flood Protection Board (CVFPB) and DWR to develop and recommend a new set of guidelines, including a methodology and local agency requirements for evaluating a local agency's ability to pay for cost of levee maintenance or improvements under the Delta Levee Subventions Program. SB 854, the Public Resources budget trailer bill, ultimately became the legislative vehicle to make permanent changes to the Delta Levee Subventions Program (Chapter 51, Statutes of 2018). |
| AB 747 Caballero (D) Sponsor: Author | Amended 8/28/18 Signed by Governor on 9/22/18 Chapter 668, Statutes of 2018 | State Water Resources Control Board (SWRCB) - Administrative Hearing Office: Creates, within the SWRCB, an Administrative Hearings Office, effective July 1, 2019, to ensure that water rights matters are resolved in timely manner. | SUPPORT based upon Board-adopted legislative policy priorities dated 12/12/17 | AB 747 allows the SWRCB to designate impartial hearing officers to conduct hearings on certain water rights matters. This structure could allow for more efficient resolution of certain enforcement actions and other matters before the SWRCB. |

**Metropolitan Water District of Southern California
State Legislation Matrix 10/1/2018**

| Bill Number Author | Amended Date; Location | Title-Summary | MWD Position | Effects on Metropolitan |
|--|--|--|--|---|
| AB 869 Rubio (D) Sponsor: Author | Amended 8/24/17 Held in Senate Natural Resources and Water Committee | Recycled Water: Required long-term standards for urban water use conservation and water use to include credit for recycled water, as specified. Provided that water conservation does not include curtailment of use of recycled water. Prohibited urban retail water supplier from being required to reduce amount of recycled water it produces, sells or distributes for beneficial potable or nonpotable uses during period when water conservation measures are in effect. | SUPPORT IF AMENDED based upon Board-adopted legislative policy priorities dated 12/12/17 | AB 869 was consistent with provisions found in SB 606 (Skinner/Hertzberg) and AB 1668 (Friedman), with a few distinctions. Bill recognized that recycled water is an efficient use and should be treated as such in any new water use efficiency targets, although bill sought to expand credit specified in SB 606 and AB 1668 to include nonpotable recycled water. Also sought to override authority extended to Governor under Emergency Services Act regarding curtailment of potable and nonpotable recycled water. |
| AB 1270 Gallagher (R) Sponsor: Author | Amended 1/22/18 Signed by Governor on 2/26/18 Chapter 3, Statutes of 2018 | Dams and Reservoirs – Inspections and Reporting: Requires DWR to inspect dams, reservoirs, and critical appurtenant structures within its jurisdiction once per fiscal year, with the exception of low hazard potential dams which shall receive inspections, at a minimum, every two fiscal years. Also requires owners to disclose information sufficient to enable DWR to determine conditions of dams, reservoirs, and critical appurtenant structures regarding their safety and to perform, at the owner's expense, other work necessary to secure maintenance and operation that will safeguard life and property. | WATCH (1/22/18) | Based upon Metropolitan's decades of experience in building, monitoring, maintaining and operating more than 20 dams within the district's regional water distribution system, the bill addresses security and inspection concerns previously identified. |

**Metropolitan Water District of Southern California
State Legislation Matrix 10/1/2018**

| Bill Number Author | Amended Date; Location | Title-Summary | MWD Position | Effects on Metropolitan |
|--|---|--|--|---|
| AB 1323 Weber (D) Sponsor: San Diego County Water Authority | Amended 5/30/17 Held in Senate Appropriations Committee | Water Efficiency Targets: Provided that if a statute is not chaptered during 2017-18 legislative session to establish water conservation targets and long-term drought contingency planning, DWR would convene stakeholder workgroup by February 1, 2019, to develop, evaluate and recommend proposals for establishing new water use targets for urban retail water suppliers. | SUPPORT based upon Board-adopted legislative policy priorities dated 12/12/17 | Metropolitan supports state agency implementation of a framework consistent with the water use efficiency goals set by the Legislature by working through a stakeholder process to ensure the goals are met in a way that recognizes the unique challenges of agencies throughout California. |
| AB 1667 Friedman (D) Sponsor: Author | Amended 7/3/17 Held in Senate Natural Resources and Water Committee | Water Management Planning: Reflected the Brown Administration's June 2017 proposal to implement Executive Order B-37-16 and the framework contained in the report Making Water Conservation a California Way of Life for urban and agricultural water usage and drought planning. | SUPPORT IF AMENDED based upon Board-adopted legislative policy priorities dated 12/12/17 | AB 1667 was consistent, in part, with the policy priorities adopted by Metropolitan's board. There were specific provisions, however, that required further revisions to merit full support. |

**Metropolitan Water District of Southern California
State Legislation Matrix 10/1/2018**

| Bill Number Author | Amended Date; Location | Title-Summary | MWD Position | Effects on Metropolitan |
|---|---|--|---|--|
| AB 1668 Friedman (D) Sponsor: Author | Amended 5/3/18 Signed by Governor on 5/31/18 Chapter 15, Statutes of 2018 | Water Management Planning: Sets targets for indoor residential water use and performance measures for CII water. References the Model Water Efficient Landscape Ordinance (MWLEO) for outdoor water use. Also clarifies SWRCB enforcement authority for non-compliance; updates agricultural water use efficient requirements; and provides for countywide and small system drought planning. | SUPPORT based upon Board-adopted legislative policy priorities dated 12/12/17 | AB 1668 recognizes the Legislature's critical role in providing appropriate oversight to implementation of water conservation efforts by the Department of Water Resources and the State Water Resources Control Board, while preserving local decision making. AB 1668 includes a water-budget based target-setting approach that could be customized to unique location conditions and could be equally effective in reducing water use. Final amendments were made to ensure CII performance measures are cost effective and technically feasible; clarify application of enforcement provisions and MWLEO requirements; and authorizes a 15% bonus incentive for existing potable reuse projects, as defined. |
| AB 1876 Frazier (D) Sponsor: Author | Amended 4/3/18 Assembly Water, Parks and Wildlife Committee; failed passage on 4/24/18 | Delta Plan: Sought to abolish the Delta Stewardship Council and proposed to transfer its duties on July 1, 2020, to the Delta Protection Commission, a body that is dominated by in-Delta interests. | OPPOSE based upon June 2007 Board-adopted Delta Action Plan | The Delta is the largest estuary in the western hemisphere and the location of the largest water delivery systems in the nation. Comprehensive and balanced Delta planning and oversight cannot be accomplished by one region seeking to eliminate the voices of all others. AB 1876 represented a giant step backwards in a statewide approach to resolving and balancing statewide interests. |

**Metropolitan Water District of Southern California
State Legislation Matrix 10/1/2018**

| Bill Number Author | Amended Date; Location | Title-Summary | MWD Position | Effects on Metropolitan |
|---|---|---|---|--|
| AB 2050 Caballero (D) Sponsors: Eastern MWD and CA Municipal Utilities Association | Amended 8/6/18 Vetoed by Governor on 9/28/18 | Small System Water Authority Act of 2018: Would have enacted the Small System Water Authority Act of 2018, to authorize the creation of a small system water authority and required consolidation of failing water systems into an authority. | SUPPORT as adopted by Board on 3/13/18 | <p>While laws have been enacted over the past several years to address access to safe drinking water, immediate and lasting changes to the governance structure of chronically noncompliant small systems are still necessary to protect public health and safety. AB 2050 provided another tool which could lead to more sustainable water systems to effectively deliver safe and affordable drinking water to its residents.</p> <p>Although appreciating the author's intent, the Governor vetoed the bill as he felt it created an expensive, bureaucratic process and did not address the most significant problem with providing safe drinking water - - identifying a stable funding source to pay for ongoing operations and maintenance costs.</p> |
| AB 2062 Maienschein (R) Sponsor: Author | Amended 4/30/18 Signed by Governor on 8/20/18 Chapter 165, Statutes of 2018 | State Highways - Landscaping: Requires the Department of Transportation (CalTrans) to include California native wildflowers and climate-appropriate vegetation in planning projects, as specified. | SUPPORT based upon Board-adopted legislative policy priorities dated 12/12/17 | Landscape water use on state highways should diminish with the installation of native plants and climate-appropriate vegetation. Leading by example, state highways could become a showcase to the public on the application of native plants in outdoor landscapes. |

**Metropolitan Water District of Southern California
State Legislation Matrix 10/1/2018**

| Bill Number Author | Amended Date; Location | Title-Summary | MWD Position | Effects on Metropolitan |
|---|--|---|---|---|
| AB 2283 Holden (D) Sponsor: Author | Introduced 2/13/18 Held in Assembly Appropriations Committee | Income Tax Exclusions – Turf Removal Water Conservation Programs: Would have extended, until December 1, 2024, the exclusion from gross income of any amount received as a rebate, voucher or other financial incentive issued by a local water agency or supplier for expenses incurred for participation in a turf removal water conservation program. | SUPPORT based upon past support of AB 2434 (Gomez), Chapter 738, Statutes of 2014 | Extending the existing tax exclusion by five years would have provided relief to state taxpayers and could have encouraged participation in turf removal programs. In January 2014, Metropolitan added turf removal to the SoCal WaterSmart Regional Program, making it available to customers throughout the service area. |
| AB 2543 Eggman (D) Sponsor: Author | Amended 3/13/18 Signed by Governor on 9/29/18 Chapter 918, Statutes of 2018 | State Agencies - Infrastructure Project Budget and Schedule: Requires state agencies to publicly report significant changes in the cost or schedule of large and complex infrastructure projects. The bill seeks to incorporate a recommendation from the October 2017 report on CA WaterFix by the State Auditor General. | OPPOSE based upon June 2007 Board-adopted Delta Action Plan | While an open and transparent project delivery process is important to public agencies and their customers, Metropolitan raised concerns with the vagueness its terminology and application to state infrastructure projects. Project opponents could use an alleged violation of the reporting requirement to bring any action to halt, delay or modify a project. |

**Metropolitan Water District of Southern California
State Legislation Matrix 10/1/2018**

| Bill Number Author | Amended Date; Location | Title-Summary | MWD Position | Effects on Metropolitan |
|---|--|---|---|---|
| AB 2545 Gallagher (R) Sponsor: California Farm Bureau Federation | Amended 5/25/18 Held in Senate Natural Resources and Water Committee | Lake or Streambed Alteration Agreements (LSAA): Complete rewrite. Sought to direct the CA Department of Fish and Wildlife (CDFW) to develop a general agreement alternative to a project-specific LSAA. | SUPPORT based upon Board-adopted legislative policy priorities dated 12/12/17 | <p>The process to obtain a LSAA, under the existing regulatory framework, can take upwards of nine months, and CDFW has often required a number of seasonal constraints, conditions and mitigation requirements for perceived impacts to fish and wildlife resources. LSAA's typically do not allow for flexibility in project scheduling without going through another regulatory process to amend the LSAA which can interfere with Metropolitan's ability to safely and efficiently maintain its facilities.</p> <p>AB 2545 provided an alternative to a project-specific LSAA by directing CDFW to develop a general agreement.</p> |
| AB 2649 Arambula (D) Sponsor: Author | Amended 8/28/18 Held in Senate Rules Committee | State Water Project: Water Supply Contracts: Existing law requires that at least 60 days prior to the final approval of the renewal or extension of a long-term water supply contract between Department of Water Resources (DWR) and any State Water Project (SWP) contractor, DWR is required to present the contract terms, conditions and details to the Joint Legislative Budget Committee (JLBC) during an informational hearing. AB 2649 would have expanded the transparency requirements for DWR on significant amendments to the SWP contract going forward. | SUPPORT based upon Board-adopted legislative policy priorities dated 12/12/17 | <p>AB 2649 was written to reflect a compromise between the Joint Legislative Budget Committee chair and DWR. The bill would have eliminated any hearing requirement for SWP contract extensions in the future. The bill also required that DWR notify the JLBC and policy committees of jurisdiction on any significant amendments to the SWP contract as defined by the Monterey Agreement, such as CA WaterFix.</p> |

**Metropolitan Water District of Southern California
State Legislation Matrix 10/1/2018**

| Bill Number Author | Amended Date; Location | Title-Summary | MWD Position | Effects on Metropolitan |
|---|---|---|---|--|
| AB 2697 Gallagher (R) Sponsor: California Waterfowl and Pheasants Forever | Amended 8/21/18 Signed by Governor on 9/20/18 Chapter 588, Statutes of 2018 | Water Transfers – Idled Agricultural Lands: Requires the Wildlife Conservation Board to establish an incentive program to encourage landowners to voluntarily cultivate or retain cover crops or other upland vegetation on idled lands to provide wildlife habitat for waterfowl and other game birds, provided the voters approve Proposition 3, on the November 2018 general election ballot, or should federal funding be secured for the purposes of the bill. | WATCH based upon past opposition to AB 472 (Frazier) in 2017 | The bill leaves DWR's current water transfer program and guidelines intact. The existing program strikes a balance between encouraging cover crops and protecting water transfers. |
| AB 3045 Gallagher (R) Sponsor: Author | Amended 4/25/18 Held in Assembly Appropriations Committee | Natural Resources Agency: State Water Project Commission: Proposed to transfer control of the SWP from the California Department of Resources to a newly formed State Water Project Commission, which would consist of Governor appointees. | OPPOSE based upon June 2007 Board-adopted Delta Action Plan | AB 3045 proposed sweeping changes in SWP governance, but without addressing the multitude of complex policy, legal and operational issues that the bill is intended to address. As the bill was written, it could have resulted in delays or disruptions of needed improvements to ensure the sustainability of the SWP. |

**Metropolitan Water District of Southern California
State Legislation Matrix 10/1/2018**

| Bill Number Author | Amended Date; Location | Title-Summary | MWD Position | Effects on Metropolitan |
|---|---|--|---|--|
| AB 3170 Friedman (D) Sponsor: Author | Amended 4/16/18 Held in Assembly Appropriations Committee | Sales Tax Exemption: Authorized, until January 1, 2024, an annual three-day exemption from state sales tax for the purchase of qualified water efficiency products, including: rain barrels with a capacity of 100 gallons or more; soaker or drip-irrigation hoses; weather-based irrigation controllers; soil moisture-based control technologies; mulch and compost; WaterSense products; low-water use plants; and a permeable ground cover surface, other than living turf grass, that allows water to reach underground basins, aquifers, or water collection points. | SUPPORT based upon Board-adopted legislative policy priorities dated 12/12/17 | Metropolitan and its member agencies will continue to strengthen their conservation outreach and rebate programs, focusing on new ways to help homeowners, businesses and communities change outdoor landscapes and gardens, where most water typically is used. AB 3170 sought to provide further financial incentives to make this transformation a reality and would have facilitated an aggressive approach to lowering water use. |
| SB 473 Hertzberg (D) Sponsor: Author | Amended 8/16/18 Signed by Governor on 9/10/18 Chapter 329, Statutes of 2018 | California Endangered Species Act (CESA): Makes numerous modifications to CESA, including, but not limited to, clarification that public agencies are covered under CESA; repealing the local voluntary agricultural program for routine and ongoing maintenance, except in one existing instance; requires the listing of endangered or threatened species by the Fish and Game Commission based solely upon best available scientific information; and proposes numerous other modifications to existing law. | SUPPORT based upon Board-adopted legislative policy priorities dated 12/12/17 | SB 473 provides regulatory compliance flexibility, promotes consistent implementation of CESA and reduces regulatory duplication. |

**Metropolitan Water District of Southern California
State Legislation Matrix 10/1/2018**

| Bill Number Author | Amended Date; Location | Title-Summary | MWD Position | Effects on Metropolitan |
|--|---|--|---|---|
| SB 532 Dodd (D) Sponsor: Author | Amended 8/23/18 Signed by Governor on 9/19/18 Chapter 557, Statutes of 2018 | Emergency Services - Cyberterrorism: Adds “cyberterrorism” to the list of conditions that are named in the Emergency Services Act that may be cited to support the proclamation of a state or local emergency. | SUPPORT based upon Board-adopted legislative policy priorities dated 12/12/17 | SB 532 would allow cities, counties and other public agencies to be eligible for emergency funding and assistance if cyberterrorism was deemed the cause of a state or locally-declared emergency. |
| SB 579 Galgiani (D) Sponsor: Author | Amended 8/24/18 Held in Assembly Rules Committee | Water Quality Control Plans - Alternative Measures: Would have amended the Water Code to ensure that the State Water Resources Control Board (SWRCB), in consultation with other appropriate agencies like the California Department of Fish and Wildlife and the California Natural Resources Agency, take into account the benefits to designated beneficial uses from both state-led and stakeholder-driven habitat restoration and adaptive management measures when it updates the Water Quality Control Plan for the Sacramento-San Joaquin Bay-Delta (Bay-Delta WQCP). | SUPPORT based upon Board-adopted legislative policy priorities dated 12/12/17 | SB 579 did not expand the SWRCB’s authority, but rather ensured that non-stream- flow measures like habitat restoration and adaptive management that are anticipated to result from voluntary, stakeholder-based negotiations among water rights holders in the Sacramento and San Joaquin River watersheds, are accounted for before the SWRCB adopts any updates to the Bay-Delta WQCP that affect stream flows. |

**Metropolitan Water District of Southern California
State Legislation Matrix 10/1/2018**

| Bill Number Author | Amended Date; Location | Title-Summary | MWD Position | Effects on Metropolitan |
|--|---|--|---|--|
| SB 606 Hertzberg (D) Sponsor: Author | Amended 5/7/18 Signed by Governor on 5/31/18 Chapter 14, Statutes of 2018 | Water Management Planning: Provides for the calculation of water use objectives by urban retail water supplies. Specifies SWRCB enforcement tools and timelines. Contains revisions to UWMP reporting and filing requirements. Provides for preparation of Water Shortage Contingency Plans and annual water supply and demand assessment by urban wholesaler and retailer water suppliers. Measure also recognizes that recycled water is an efficient use and should be treated as such in the calculation for new water use efficiency targets. | SUPPORT based upon Board-adopted legislative policy priorities dated 12/12/17 | Preserves the legislative process for setting water-use efficiency goals yet recognizes the role of state agencies to implement a detailed framework consistent with those goals. Bill contains numerous opportunities for stakeholder engagement to ensure requirements of the measure are met in a way that recognizes the unique challenges of water agencies throughout California. SB 606 preserves local and regional decision-making and control in determining actions to avoid shortage or mitigate shortage impacts. |
| SB 623 Monning (D) Sponsor: Community Water Center and Western Growers Association | Amended 8/21/17 Held in Assembly Rules Committee | Safe and Affordable Drinking Water Fund: Would have established the Safe and Affordable Drinking Water Fund to assist communities and individual domestic well owners who lack access to safe drinking water, particularly those in small, rural disadvantaged communities. Fund was designed to pay for replacement water; domestic well testing and investigations; planning, construction, operation and maintenance costs for system improvements; and outreach to eligible communities. Revenue for the Fund would come from an agricultural fee on fertilizer sales and dairy operations and a permanent tax on ratepayers of urban retail water systems. | OPPOSE UNLESS AMENDED based upon Board-adopted legislative policy priorities dated 12/12/17 | Generally speaking, the water industry agreed with the intent of SB 623. The lack of access to safe drinking water in certain disadvantaged communities is a public health and social issue that the state must address. Potential revenue sources identified for the Fund, however, should reflect the "beneficiary pays" principle, as opposed to a fee or assessment levied on water agencies for funding the broader public benefits. |

**Metropolitan Water District of Southern California
State Legislation Matrix 10/1/2018**

| Bill Number Author | Amended Date; Location | Title-Summary | MWD Position | Effects on Metropolitan |
|--|--|---|---|---|
| SB 844 Monning (D) Sponsor: Brown Administration | Amended 8/22/18 Held in Assembly Appropriations Committee | Water Quality: Agricultural Safe Drinking Water Fees: Would have imposed fees on fertilizer, dairies and confined animal operations, for deposit into the Safe and Reliable Drinking Water Fund, created by SB 845. Revenues raised were to be continuously appropriated for grants, loans, contracts or services to assist eligible applicants with addressing nitrate contamination in disadvantaged communities. Enforcement relief from certain RWQCB actions was extended to those that pay into the Fund. By January 1, 2028, SWRCB was to undertake a public review of regulatory and basin plan amendment implementation to evaluate progress toward achieving water quality objectives with respect to nitrate in groundwater and to assess compliance by agricultural operations. Passage required a two-thirds vote of the Legislature and was contingent on passage of SB 845 (Monning). | WATCH based upon Board-adopted legislative policy priorities dated 12/12/17 | SB 844 was a more acceptable and equitable approach than that required for agricultural operations in SB 623 and the budget trailer bill advanced in early 2018. The fees imposed on agricultural operations were structured and based upon a periodic needs assessment by the SWRCB. The Secretary of Food and Agriculture was directed to adjust the fees as necessary to meet, but not exceed, 70% of the anticipated funding need for nitrate cleanup after January 1, 2034. The fees did not sunset but decreased, as defined in the bill. |

**Metropolitan Water District of Southern California
State Legislation Matrix 10/1/2018**

| Bill Number Author | Amended Date; Location | Title-Summary | MWD Position | Effects on Metropolitan |
|--|--|--|--|---|
| SB 845 Monning (D) Sponsor: Brown Administration | Amended 8/22/18 Held in Assembly Appropriations Committee | Safe and Affordable Drinking Water Fund: Rather than imposing a mandatory charge on urban water retail agencies as proposed in SB 623 (Monning) and the budget trailer bill from early 2018, this bill required that retail water agencies impose a “voluntary remittance” on each customer’s bill beginning July 1, 2019, to raise funds to assist disadvantaged communities to gain access to safe and reliable drinking water. Retail customers could elect to “opt out” by deducting all or a portion of the amount from their water bill, or could pay more than the established minimum amount. The initial minimum amount would be based upon service connection size, as defined. Funds collected were to be remitted by the water provider at least twice a year based upon the funds received. | OPPOSE based upon Board-adopted legislative policy priorities dated 12/12/17 | SB 845 lacked sufficient detail regarding implementation and collection of the “voluntary remittance.” The bill failed to recognize the complexities associated with retail billing systems around the state. Instead, the bill deferred to a collaborative process between the SWRCB and ACWA to develop voluntary best practices associated with bill presentation, accounting and collection. The best practices included special consideration for low-income households, although there was no specific exemption for low-income ratepayers. |
| SB 919 Dodd (D) Sponsor: The Nature Conservancy | Amended 6/27/18 Held in Assembly Appropriations Committee | Water Resources – Stream Gages: Required the Department of Water Resources (DWR) and State Water Resources Control Board to develop a plan to deploy a network of stream gages that included a determination of funding needs and opportunities for reactivating existing gages. | SUPPORT based upon Board-adopted legislative policy priorities dated 12/12/17 and June 2007 Board-adopted Delta Action Plan | A robust and accurate data collection system will support informed decision-making regarding water management. Having a more reliable and accurate system of stream gages can also help integrate groundwater recharge during high-flow events. Good information and science leads to sound public policy on water management. |

**Metropolitan Water District of Southern California
State Legislation Matrix 10/1/2018**

| Bill Number Author | Amended Date; Location | Title-Summary | MWD Position | Effects on Metropolitan |
|---|--|---|---|---|
| SB 1301 Beall (D) Sponsor: Santa Clara Valley Water District | Amended 8/6/18 Vetoed by Governor on 9/28/18 | State Permitting – Processing Procedures: Sought to authorize a dam safety project or flood risk reduction project eligible for supplemental consultation, as specified, for the purpose of expediting the permitting of the project. Required the Office of Planning and Research to develop a joint multi-agency pre-application and model fee-for-service agreement. | SUPPORT based upon Board-adopted legislative policy priorities dated 12/12/17 | <p>SB 1301 was designed to establish a more efficient permitting process for dam safety and flood protection projects. This could have been helpful for enhanced early engagement to better inform project design and the environmental review process. Due to understaffing at state permitting agencies, deadlines for permitting are often missed, particularly for large projects that yield the most public safety benefit.</p> <p>The Governor viewed the measure as an attempt to address a perceived shortfall in funding and staffing at the permitting agencies. He believed the proper balance of state agency resources should be deliberated in the annual budget process not through legislation and suggested the author address this issue in next year's budget cycle.</p> |

**Metropolitan Water District of Southern California
State Legislation Matrix 10/1/2018**

| Bill Number Author | Amended Date; Location | Title-Summary | MWD Position | Effects on Metropolitan |
|---|--|--|--|---|
| SB 1422 Portantino (D) Sponsor: Author | Amended 8/23/18 Signed by Governor on 9/28/18 Chapter 902 Statutes of 2018 | California Safe Drinking Water Act – Microplastics: Requires the State Water Resources Control Board (SWRCB) to adopt a definition of microplastics by July 1, 2020, and then adopt rules for the testing of microplastics in drinking water, including a detection methodology and disclosure requirements, on or before July 1, 2021. | OPPOSE based upon Board-adopted legislative policy priorities dated 12/12/17 | <p>While studies have identified the presence of microplastics in drinking water, it remains unclear as to what the presence of microplastics means in terms of affecting human health. Further research is necessary and is currently underway. However, the development and validation of testing methods through a peer-review process is still years away. There also is no detection limit nor are there any accredited environmental laboratories in the state that can provide analysis for microplastics in drinking water. The availability of science and research, not an arbitrary deadline, should guide the development of any requirements for an issue as complex as microplastics.</p> <p>SB 1422 also requires public disclosure on testing results without there being information available to put the results in context as to whether the results are significant. Without context, the reporting may detrimentally impact the public's perception of the safety and quality of their drinking water.</p> |

**Metropolitan Water District of Southern California
State Legislation Matrix 10/1/2018**

| Bill Number Author | Amended Date; Location | Title-Summary | MWD Position | Effects on Metropolitan |
|---|---|---|--|--|
| SB 1493 Senate Committee on Natural Resources and Water Sponsors: Multiple | Amended 8/21/18 Signed by Governor on 9/23/18 Chapter 742, Statutes of 2018 | State Lands: Represents the Senate Natural Resources and Water Committee omnibus “code clean-up” bill. Sections 29 and 30 repeal the State Lands Commission’s (SLC) Statutory Trust Grant issued to Metropolitan and returns the tide and submerged lands at Bolsa Chica to the State of California. Metropolitan has not, and does not intend to, move forward with projects as defined in the grant. | WATCH based on MWD Real Property and Asset Management Committee discussion on 12/12/17 | The tide and submerged lands granted to Metropolitan in 1967 by the State Lands Commission are subject to a reversionary interest. The state is choosing to exercise that interest to focus its resources on other matters rather than annually monitoring and reviewing the inactive status of the grant. |

ETWD Public Education and Outreach Report

October 25, 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 three water waste complaints for the month of September for excessive water use.

Messaging/Materials

The October/November bill message: Turf removal rebates are available for ETWD residential and commercial customers. Please visit etwd.com or ocwatersmart.com for more information and to view the new program requirements.

Community Advisory Group

The next Community Advisory Group meeting is November 8, 2018. MWDOC status report on the CA Water Fix and the Recycled Water Expansion Projects are tentative topics.

Laguna Woods Village Television Channel 6

Director Kathryn Freshley is scheduled to present on TV 6 Friday, October 26, 2018. Director Freshley will present on the 2018 Orange County Reliability Draft Study.

ETWD Newsletter

Staff is developing the next newsletter. Possible topics include emergency preparedness, DSC School program, water quality, H2O for HOA event partnership, CA Water Professionals week, irrigation during the winter months, and rebates.

UC ANR Urban Landscape and Garden Expo

On September 29, 2018, ETWD staff, Dominic Bergin, Bob Hazzard and Garth Botha hosted a booth and distributed drinking water with ETWD's emergency water trailer. Photos from the event follow.



ETWD Community Outreach Schedule

October 20, 2018

South County Disaster Preparedness Expo

City of Mission Viejo Norman P. Murry Center from 9 am – 12 noon. ETWD staff will host a booth and distribute drinking water with ETWD's emergency water trailer.

October 25, 2018

H2O for HOA's

ETWD along with MNWD, SMWD, SCWD, City of Laguna Hills, City of Laguna Niguel, City of Aliso Viejo, City of Mission Viejo, City of RSM, City of Dana Point and City of San Juan Capistrano are hosting an H2O for HOA's on October 25, 2018 from 8:00 am. – 12:00 p.m. at the Norman P. Murray Center in Mission Viejo. Agencies invited HOA board members, property managers and landscape professionals to this event. Presentations will focus on Stormwater Best Management Practices, Water Efficiency Tools, Resources & Rebates, Plant Selection/Landscape Design, and Landscape Project & Financial Planning for HOA's.

November 3, 2018

Girl Scout Water Tour

ETWD will host the first Girl Scout Water Resources and Conservation Patch on Saturday, November 3, 2018 from 9 am – 11 am at the WRP. This event will be two hours and will include a very brief welcome, plant tour for 1 hour and 15 minutes and 45 minute activity.

**EL TORO WATER DISTRICT
CONSERVATION PROGRAM
Monthly
Status Report
October 25, 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 September 2018 year-to-date sales, residential accounted for 57% of the overall Tier 3 usage and dedicated irrigation accounted for 58% of Tier 4 usage.](#)

TOTAL CONSUMPTION COMPARISON TO EVAPOTRANSPIRATION (ET) FACTOR

Included in this month's Conservation Report is a chart comparing the current fiscal year 2018/19 consumption and ET factor to the fiscal 2017/18 consumption and ET factor.

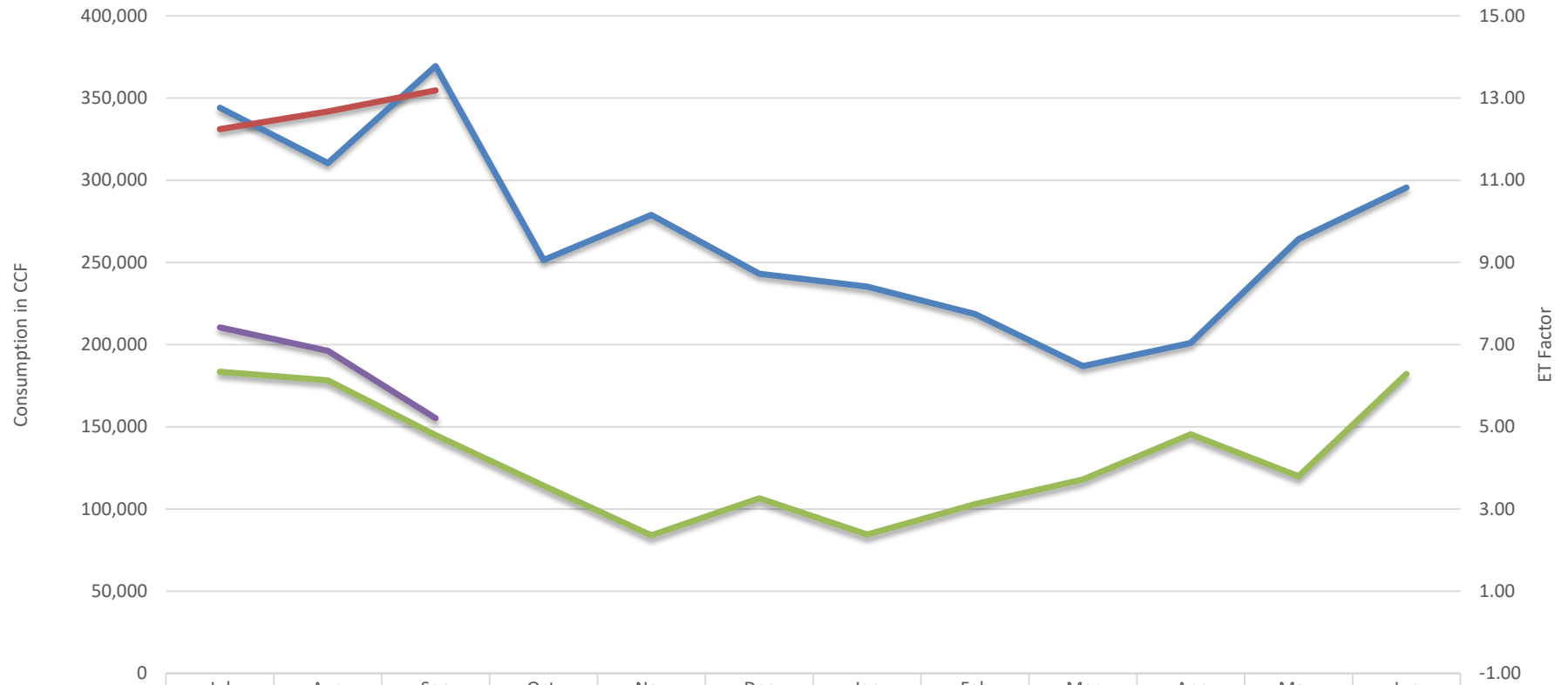
The ET factor increased 8% from September 2017 when compared to September 2018. There was a 4% decrease in consumption reflected in September 2018.

**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: September 17, 2018

Total Consumption Comparison

[illegible]

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 MWD OC 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 | 53.2 | 17.3 | \$50,038 |
| **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 | | | 936.3 | 305.1 | \$881,106 |

* 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 305.1 million gallons of water per year.

Orange County

Water Use Efficiency Programs Savings and Implementation Report

Retrofits and Acre-Feet Water Savings for Program Activity

| Program | Program Start Date | Retrofits Installed in | Month Indicated | | Current Fiscal Year | | Overall Program | | |
|---|--------------------|------------------------|-----------------|---------------|---------------------|---------------|-------------------|-------------------------|-----------------------------|
| | | | Interventions | Water Savings | Interventions | Water Savings | Interventions | Annual Water Savings[4] | Cumulative Water Savings[4] |
| High Efficiency Clothes Washer Program | 2001 | August-18 | 243 | 0.70 | 350 | 1.31 | 116,895 | 4,033 | 30,379 |
| Smart Timer Program - Irrigation Timers | 2004 | August-18 | 418 | 6.09 | 616 | 14.88 | 23,329 | 8,173 | 54,890 |
| Rotating Nozzles Rebate Program | 2007 | August-18 | 1,672 | 6.69 | 1,672 | 6.69 | 565,979 | 2,749 | 19,637 |
| Commercial Plumbing Fixture Rebate Program | 2002 | August-18 | 989 | 2.07 | 2,114 | 5.23 | 95,887 | 4,964 | 49,327 |
| Industrial Process/Water Savings Incentive Program (WSIP) | 2006 | August-18 | 1 | 1.66 | 1 | 1.66 | 33 | 673 | 3,153 |
| Turf Removal Program ^[3] | 2010 | August-18 | 38,317 | 0.45 | 61,888 | 1.00 | 21,656,966 | 3,033 | 13,314 |
| High Efficiency Toilet (HET) Program | 2005 | August-18 | 20 | 0.07 | 32 | 1.36 | 60,135 | 2,223 | 19,274 |
| 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 | | | | 18 | 66,673 | 32 | 23,864,048 | 51,850 | 446,478 |

⁽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 | 7 | 1,930 | 0.02 | 502.87 | 999 |
| Buena Park | 105 | 106 | 91 | 76 | 54 | 50 | 2 | 1,570 | 0.01 | 396.85 | 812 |
| East Orange CWD RZ | 10 | 8 | 8 | 8 | 3 | 1 | - | 193 | 0.00 | 53.71 | 100 |
| El Toro WD | 134 | 121 | 111 | 65 | 47 | 50 | 6 | 1,577 | 0.02 | 398.66 | 816 |
| Fountain Valley | 115 | 102 | 110 | 76 | 65 | 49 | 3 | 2,452 | 0.01 | 664.44 | 1,269 |
| Garden Grove | 190 | 162 | 165 | 251 | 127 | 87 | 4 | 3,654 | 0.01 | 947.29 | 1,891 |
| Golden State WC | 265 | 283 | 359 | 260 | 138 | 156 | 17 | 5,188 | 0.07 | 1,343.19 | 2,684 |
| Huntington Beach | 334 | 295 | 319 | 225 | 180 | 141 | 14 | 8,401 | 0.05 | 2,310.92 | 4,347 |
| Irvine Ranch WD | 1,763 | 1,664 | 1,882 | 1,521 | 1,373 | 1,203 | 119 | 25,988 | 0.45 | 6,407.51 | 13,447 |
| La Habra | 82 | 114 | 87 | 66 | 53 | 48 | 5 | 1,380 | 0.02 | 347.50 | 714 |
| La Palma | 34 | 25 | 34 | 29 | 10 | 14 | 1 | 473 | 0.01 | 120.32 | 245 |
| Laguna Beach CWD | 38 | 37 | 39 | 32 | 19 | 20 | 3 | 955 | 0.01 | 253.54 | 494 |
| Mesa Water | 114 | 86 | 89 | 113 | 80 | 54 | 10 | 2,582 | 0.04 | 707.97 | 1,336 |
| Moulton Niguel WD | 442 | 421 | 790 | 688 | 575 | 527 | 69 | 10,517 | 0.26 | 2,552.73 | 5,442 |
| Newport Beach | 116 | 92 | 95 | 66 | 61 | 51 | 10 | 2,685 | 0.03 | 749.81 | 1,389 |
| Orange | 218 | 163 | 160 | 124 | 80 | 74 | 10 | 3,982 | 0.03 | 1,101.00 | 2,060 |
| Orange Park Acres | | | | | - | - | - | 12 | 0.00 | 4.09 | 6 |
| San Juan Capistrano | 76 | 73 | 92 | 63 | 33 | 33 | 2 | 1,494 | 0.01 | 392.05 | 773 |
| San Clemente | 140 | 94 | 141 | 75 | 70 | 85 | 7 | 2,712 | 0.02 | 709.88 | 1,403 |
| Santa Margarita WD | 553 | 662 | 792 | 466 | 367 | 274 | 44 | 9,834 | 0.19 | 2,475.03 | 5,088 |
| Seal Beach | 31 | 29 | 38 | 23 | 9 | 17 | - | 619 | 0.00 | 162.93 | 320 |
| Serrano WD | 13 | 10 | 26 | 8 | 11 | 8 | - | 365 | 0.00 | 100.05 | 189 |
| South Coast WD | 89 | 79 | 68 | 43 | 44 | 36 | 2 | 1,622 | 0.01 | 423.53 | 839 |
| Trabuco Canyon WD | 30 | 45 | 47 | 34 | 28 | 22 | 1 | 821 | 0.00 | 211.93 | 425 |
| Tustin | 78 | 59 | 80 | 66 | 44 | 49 | 5 | 1,666 | 0.02 | 447.83 | 862 |
| Westminster | 121 | 82 | 109 | 149 | 84 | 65 | - | 2,651 | 0.00 | 695.77 | 1,372 |
| Yorba Linda | 181 | 167 | 156 | 123 | 56 | 67 | 9 | 3,828 | 0.04 | 1,055.85 | 1,981 |
| MWDOC Totals | 5,365 | 5,094 | 6,002 | 4,726 | 3,668 | 3,237 | 350 | 99,151 | 1.31 | 25,537.25 | 19,156 |
| | | | | | | | | | | | |
| Anaheim | 331 | 285 | 295 | 266 | 213 | 173 | - | 10,855 | 0.00 | 3,037.43 | 5,617 |
| Fullerton | 200 | 186 | 211 | 165 | 107 | 99 | - | 3,794 | 0.00 | 998.43 | 1,963 |
| Santa Ana | 163 | 131 | 132 | 259 | 141 | 124 | - | 3,095 | 0.00 | 806.18 | 1,601 |
| Non-MWDOC Totals | 694 | 602 | 638 | 690 | 461 | 396 | - | 17,744 | 0.00 | 4,842.04 | 3,428 |
| | | | | | | | | | | | |
| Orange County Totals | 6,059 | 5,696 | 6,640 | 5,416 | 4,129 | 3,633 | 350 | 116,895 | 1.31 | 30,379.29 | 22,584 |

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 | 6 | 0 | 169 | 80 | 584.33 |
| Buena Park | 3 | 0 | 0 | 0 | 4 | 10 | 7 | 4 | 10 | 7 | 15 | 3 | 6 | 4 | 52 | 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 | 7 | 0 | 151 | 359 | 2,728.64 |
| Fountain Valley | 3 | 2 | 4 | 0 | 7 | 10 | 13 | 1 | 33 | 12 | 28 | 12 | 7 | 1 | 126 | 53 | 228.37 |
| Garden Grove | 5 | 2 | 9 | 0 | 10 | 14 | 13 | 11 | 28 | 0 | 27 | 2 | 8 | 0 | 136 | 40 | 208.43 |
| Golden State WC | 9 | 49 | 9 | 25 | 39 | 12 | 35 | 16 | 56 | 37 | 88 | 6 | 26 | 13 | 339 | 211 | 976.48 |
| Huntington Beach | 18 | 33 | 20 | 35 | 19 | 2 | 42 | 12 | 88 | 94 | 70 | 30 | 23 | 0 | 365 | 298 | 1,300.84 |
| Irvine Ranch WD | 414 | 135 | 71 | 59 | 67 | 310 | 239 | 207 | 344 | 420 | 416 | 78 | 95 | 35 | 2,280 | 2,399 | 13,079.68 |
| La Habra | 4 | 7 | 2 | 0 | 4 | 7 | 3 | 1 | 12 | 7 | 8 | 0 | 7 | 2 | 51 | 46 | 235.19 |
| La Palma | 1 | 0 | 2 | 0 | 2 | 0 | 3 | 2 | 1 | 0 | 5 | 0 | 1 | 0 | 16 | 2 | 8.29 |
| Laguna Beach CWD | 76 | 2 | 71 | 0 | 86 | 0 | 86 | 1 | 27 | 0 | 11 | 0 | 1 | 0 | 509 | 20 | 272.36 |
| Mesa Water | 10 | 2 | 15 | 2 | 17 | 28 | 36 | 12 | 149 | 41 | 49 | 0 | 8 | 0 | 375 | 154 | 855.93 |
| Moulton Niguel WD | 51 | 74 | 40 | 45 | 46 | 95 | 163 | 100 | 236 | 129 | 284 | 33 | 81 | 55 | 1,279 | 889 | 4,261.73 |
| Newport Beach | 242 | 26 | 168 | 75 | 11 | 9 | 28 | 43 | 30 | 12 | 24 | 0 | 6 | 0 | 1,068 | 409 | 2,940.58 |
| Orange | 20 | 24 | 13 | 9 | 18 | 31 | 51 | 13 | 69 | 10 | 61 | 13 | 29 | 26 | 375 | 204 | 1,075.03 |
| San Juan Capistrano | 14 | 18 | 6 | 11 | 6 | 19 | 20 | 8 | 22 | 8 | 23 | 5 | 6 | 0 | 251 | 130 | 745.55 |
| San Clemente | 26 | 7 | 28 | 2 | 28 | 24 | 26 | 3 | 37 | 13 | 38 | 41 | 7 | 0 | 1,096 | 415 | 3,014.29 |
| Santa Margarita WD | 53 | 171 | 64 | 93 | 53 | 321 | 189 | 136 | 326 | 221 | 273 | 220 | 57 | 19 | 1,484 | 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 | 0 | 0 | 12 | 2,502 | 6,804.34 |
| Serrano WD | 1 | 0 | 0 | 0 | 4 | 0 | 11 | 2 | 4 | 0 | 8 | 0 | 3 | 0 | 49 | 2 | 17.80 |
| South Coast WD | 13 | 16 | 8 | 4 | 104 | 73 | 9 | 11 | 7 | 0 | 15 | 2 | 1 | 0 | 294 | 214 | 1,307.18 |
| Trabuco Canyon WD | 6 | 0 | 2 | 0 | 6 | 1 | 16 | 50 | 13 | 3 | 20 | 0 | 7 | 0 | 130 | 157 | 1,062.61 |
| Tustin | 8 | 4 | 9 | 1 | 18 | 14 | 33 | 8 | 33 | 23 | 27 | 1 | 15 | 0 | 185 | 81 | 403.52 |
| Westminster | 1 | 1 | 2 | 0 | 13 | 17 | 7 | 1 | 17 | 12 | 22 | 0 | 6 | 0 | 93 | 44 | 231.71 |
| Yorba Linda | 20 | 0 | 12 | 5 | 32 | 2 | 61 | 27 | 72 | 71 | 68 | 10 | 24 | 0 | 430 | 193 | 985.15 |
| MWDOC Totals | 1,017 | 583 | 571 | 402 | 648 | 1,026 | 1,123 | 3,136 | 1,691 | 1,137 | 1,652 | 460 | 438 | 155 | 11,347 | 10,562 | 50,456.22 |

| | | | | | | | | | | | | | | | | | |
|-------------------------|-----------|-----------|-----------|-----------|-----------|------------|-----------|-----------|------------|-----------|------------|----------|-----------|----------|------------|------------|-----------------|
| Anaheim | 19 | 10 | 9 | 26 | 7 | 52 | 30 | 34 | 87 | 10 | 62 | 0 | 21 | 0 | 327 | 457 | 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 | 23 | 0 | 664 | 756 | 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 | 461 | 155 | 12,011 | 11,318 | 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 | 0 | 0 | 919 | 2,874 | 0 | 19.34 |
| 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 | 148 | 0 | 0 | 12,728 | 20,598 | 2,945 | 1,782.61 |
| 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 | 465.23 |
| San Clemente | 415 | 5,074 | 0 | 326 | 0 | 0 | 426 | 0 | 0 | 0 | 0 | 0 | 146 | 0 | 0 | 0 | 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 | 272 | 1,400 | 0 | 194,823 | 274,867 | 14,752 | 17,368.89 |

| | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|------------|--------------|----------|--------------|--------------|----------|--------------|---------------|----------|------------|--------------|----------|----------|----------|----------|----------|----------|----------|--------------|---------------|--------------|-----------------|
| 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 | 719.68 |
| Santa Ana | 86 | 2,533 | 0 | 310 | 0 | 0 | 0 | 1,420 | 0 | 0 | 1,106 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 859 | 5,752 | 0 | 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 | 0 | 0 | 0 | 7,789 | 66,860 | 1,589 | 2,268.51 |

| | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---------------|---------------|----------|---------------|---------------|----------|---------------|---------------|----------|--------------|---------------|----------|--------------|-------------|----------|------------|--------------|----------|----------------|----------------|---------------|------------------|
| 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 | 272 | 1,400 | 0 | 202,612 | 341,727 | 16,341 | 19,637.40 |
|-----------------------------|---------------|---------------|----------|---------------|---------------|----------|---------------|---------------|----------|--------------|---------------|----------|--------------|-------------|----------|------------|--------------|----------|----------------|----------------|---------------|------------------|

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 | 0 | 1,783 | 1,032 |
| 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 | 2,114 | 70,955 | 33,208 |
| | | | | | | | | | |
| Anaheim | 165 | 342 | 463 | 3,072 | 309 | 1,808 | 0 | 15,561 | 8,466 |
| 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 | 0 | 24,932 | 16,119 |
| | | | | | | | | | |
| Orange County Totals | 1,869 | 1,531 | 2,807 | 22,116 | 14,997 | 8,494 | 2,114 | 95,887 | 49,327 |

^[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 | 523 |
| 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 | 4 |
| Fountain Valley | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 23 | 35 |
| 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 | 641 |
| Irvine Ranch | 1 | 1 | 1 | 0 | 2 | 1 | 1 | 0 | 10 | 119 | 681 |
| 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 | 79 |
| Orange | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 5 | 97 | 538 |
| 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 | 202 |
| 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 | 2 |
| MWDOC Totals | 1 | 3 | 1 | 2 | 9 | 5 | 4 | 1 | 32 | 662 | 2736 |
| 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 | 417 |
| OC Totals | 1 | 3 | 1 | 2 | 10 | 5 | 4 | 1 | 33 | 673 | 3153 |

[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 | 2,834 | 0 | 228,651 | 472,207 | 406.02 |
| 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 | 3,035 | 0 | 128,024 | 547,407 | 425.70 |
| Fountain Valley | 682 | 7,524 | 4,252 | 0 | 45,583 | 5,279 | 65,232 | 0 | 3,679 | 0 | 8,631 | 0 | 1,777 | 0 | 131,136 | 12,803 | 89.41 |
| 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 | 2,308 | 0 | 555,416 | 421,737 | 628.44 |
| 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 | 7,700 | 2,942 | 1,425,166 | 3,227,576 | 2,674.39 |
| 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 | 9,363 | 0 | 1,564,097 | 2,840,054 | 2,758.97 |
| Newport Beach | 3,548 | 2,346 | 894 | 0 | 33,995 | 65,277 | 76,675 | 375,404 | 2,924 | 0 | 5,938 | 6,499 | 0 | 0 | 127,428 | 449,526 | 337.75 |
| Orange | 15,951 | 8,723 | 11,244 | 0 | 120,093 | 281,402 | 289,990 | 106,487 | 12,847 | 2,366 | 11,956 | 0 | 2,238 | 0 | 477,290 | 398,978 | 561.26 |
| 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 | 1,634 | 0 | 400,617 | 474,271 | 523.58 |
| 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 | 11,786 | 0 | 871,124 | 1,194,453 | 1,264.55 |
| 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 | 2,000 | 0 | 180,100 | 4,403 | 108.17 |
| 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 | 2,542 | 0 | 327,609 | 465,387 | 531.62 |
| Trabuco Canyon | 1,542 | 22,440 | 2,651 | 0 | 14,771 | 0 | 42,510 | 88,272 | 1,465 | 0 | 4,788 | 0 | 0 | 0 | 67,999 | 110,712 | 111.56 |
| Tustin | 9,980 | 0 | 1,410 | 0 | 71,285 | 14,137 | 232,697 | 33,362 | 11,173 | 0 | 16,926 | 0 | 0 | 0 | 343,471 | 47,499 | 229.18 |
| Westminster | 0 | 0 | 0 | 0 | 14,040 | 34,631 | 71,833 | 23,902 | 11,112 | 0 | 10,033 | 0 | 421 | 0 | 107,439 | 58,533 | 95.21 |
| Yorba Linda | 0 | 0 | 0 | 0 | 112,136 | 12,702 | 360,279 | 116,985 | 19,420 | 0 | 9,529 | 3,696 | 7,214 | 0 | 519,927 | 133,383 | 381.82 |
| 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 | 58,946 | 2,942 | 9,449,439 | 12,198,313 | 13,305.79 |

| | | | | | | | | | | | | | | | | | |
|-------------------------|----------|----------|----------|--------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--------------|-------------|
| 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 | 58,946 | 2,942 | 9,449,439 | 12,207,527 | 13,314 |
|-----------------------------|----------------|----------------|----------------|----------------|------------------|------------------|------------------|------------------|----------------|----------------|----------------|----------------|---------------|--------------|------------------|-------------------|---------------|

[1] Installed device numbers are listed as square feet

HIGH EFFICIENCY TOILETS (HETs) INSTALLED BY AGENCY

through MWD OC 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 | 4 | 2,047 | 611.62 |
| Fountain Valley | 0 | 41 | 132 | 220 | 7 | 9 | 0 | 832 | 278.72 |
| Garden Grove | 0 | 63 | 350 | 363 | 7 | 4 | 0 | 1,488 | 474.87 |
| Golden State WC | 2 | 142 | 794 | 512 | 9 | 11 | 0 | 2,801 | 877.48 |
| 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 | 24 | 17,172 | 6,024.75 |
| 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 | 0 | 224 | 66.01 |
| Mesa Water | 0 | 147 | 162 | 162 | 7 | 3 | 0 | 1,621 | 650.09 |
| Moulton Niguel WD | 0 | 400 | 2,497 | 1,939 | 49 | 40 | 1 | 5,731 | 1,344.36 |
| Newport Beach | 0 | 49 | 168 | 243 | 11 | 6 | 0 | 731 | 208.28 |
| Orange | 1 | 142 | 978 | 416 | 17 | 10 | 2 | 2,191 | 608.89 |
| San Juan Capistrano | 0 | 35 | 140 | 202 | 3 | 9 | 0 | 532 | 139.76 |
| San Clemente | 0 | 72 | 225 | 246 | 11 | 6 | 0 | 878 | 255.87 |
| 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 | 0 | 342 | 77.41 |
| 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 |
| MWD OC Totals | 1,651 | 3,330 | 12,038 | 11,118 | 958 | 428 | 32 | 51,166 | 16,079.45 |

| | | | | | | | | | |
|--------------------------|---|-----|-------|-------|-----|----|---|-------|----------|
| Anaheim | 0 | 156 | 1,188 | 614 | 70 | 19 | 0 | 5,884 | 2,192.98 |
| Fullerton | 0 | 61 | 293 | 286 | 14 | 9 | 0 | 1,064 | 313.92 |
| Santa Ana | 0 | 33 | 602 | 293 | 20 | 0 | 0 | 2,021 | 687.54 |
| Non-MWD OC Totals | 0 | 250 | 2,083 | 1,193 | 104 | 28 | 0 | 8,969 | 3,194.44 |

| | | | | | | | | | |
|-----------------------------|--------------|--------------|---------------|---------------|--------------|------------|-----------|---------------|------------------|
| Orange County Totals | 1,651 | 3,580 | 14,121 | 12,311 | 1,062 | 456 | 32 | 60,135 | 19,273.89 |
|-----------------------------|--------------|--------------|---------------|---------------|--------------|------------|-----------|---------------|------------------|

Rain Barrels by Agency

| Agency | FY 18/19 7/1/2018 | | Total Program | | FY 13/14 | | FY 14/15 | | FY 15/16 | | FY 16/17 | | FY 17/18 | | FY 18/19 | |
|---------------------|----------------------|-----|---------------|-----|------------|-----|--------------|-----|--------------|-----|------------|-----|------------|-----|-----------|-----|
| | Res | CII | Res | CII | Res | CII | Res | CII | Res | CII | Res | CII | Res | CII | Res | CII |
| Brea | - | | 86 | - | - | - | 15 | - | 61 | - | 8 | - | 2 | - | - | - |
| Buena Park | - | | 191 | - | 5 | - | 9 | - | 148 | - | 24 | - | 5 | - | - | - |
| East Orange | - | | 39 | - | 8 | - | 8 | - | 23 | - | - | - | - | - | - | - |
| El Toro | - | | 107 | - | 5 | - | 4 | - | 78 | - | 13 | - | 7 | - | - | - |
| Fountain Valley | - | | 392 | - | 8 | - | 22 | - | 210 | - | 136 | - | 16 | - | - | - |
| Garden Grove | 4 | | 346 | - | 16 | - | 34 | - | 237 | - | 38 | - | 17 | - | 4 | - |
| Golden State WC | - | | 514 | - | 14 | - | 43 | - | 239 | - | 207 | - | 11 | - | - | - |
| Huntington Beach | - | | 1,202 | - | 147 | - | 294 | - | 700 | - | 50 | - | 11 | - | - | - |
| Irvine Ranch | - | | 1,006 | - | 21 | - | 101 | - | 778 | - | 82 | - | 24 | - | - | - |
| La Habra | - | | 71 | - | 12 | - | 15 | - | 39 | - | 4 | - | 1 | - | - | - |
| La Palma | - | | 8 | - | - | - | - | - | 4 | - | 4 | - | - | - | - | - |
| Laguna Beach | - | | 439 | - | 67 | - | 279 | - | 85 | - | 7 | - | 1 | - | - | - |
| Mesa Water | - | | 347 | - | 8 | - | 64 | - | 229 | - | 32 | - | 14 | - | - | - |
| Moulton Niguel | 3 | | 413 | - | 2 | - | 74 | - | 259 | - | 63 | - | 12 | - | 3 | - |
| Newport Beach | - | | 69 | - | 3 | - | 4 | - | 52 | - | 5 | - | 5 | - | - | - |
| Orange | - | | 379 | - | 8 | - | 41 | - | 284 | - | 31 | - | 15 | - | - | - |
| San Juan Cap | - | | 289 | - | 20 | - | 70 | - | 192 | - | 4 | - | 3 | - | - | - |
| San Clemente | - | | 170 | - | 7 | - | 54 | - | 95 | - | 6 | - | 8 | - | - | - |
| Santa Margarita | 4 | | 355 | - | 30 | - | 29 | - | 237 | - | 46 | - | 9 | - | 4 | - |
| Santiago | - | | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Seal Beach | - | | 71 | - | 8 | - | 20 | - | 37 | - | 4 | - | 2 | - | - | - |
| Serrano | - | | 40 | - | - | - | 11 | - | 21 | - | 8 | - | - | - | - | - |
| South Coast | - | | 183 | - | 14 | - | 97 | - | 55 | - | 14 | - | 3 | - | - | - |
| Trabuco Canyon | - | | 58 | - | - | - | 11 | - | 44 | - | 2 | - | 1 | - | - | - |
| Tustin | - | | 239 | - | 9 | - | 23 | - | 175 | - | 27 | - | 5 | - | - | - |
| Westminster | - | | 217 | - | 5 | - | 8 | - | 118 | - | 63 | - | 23 | - | - | - |
| Yorba Linda | - | | 228 | - | 5 | - | 20 | - | 185 | - | 18 | - | - | - | - | - |
| MWDOC Totals | 11 | - | 7,459 | - | 422 | - | 1,350 | - | 4,585 | - | 896 | - | 195 | - | 11 | - |

| | | | | | | | | | | | | | | | | |
|-------------------------|---|---|------------|---|-----------|---|-----------|---|------------|---|-----------|---|---|---|---|---|
| Anaheim | - | | 292 | - | 12 | - | 27 | - | 235 | - | 18 | - | - | - | - | - |
| Fullerton | - | | 219 | - | 16 | - | 13 | - | 171 | - | 19 | - | - | - | - | - |
| Santa Ana | - | | 239 | - | 8 | - | 46 | - | 154 | - | 31 | - | - | - | - | - |
| Non-MWDOC Totals | - | - | 750 | - | 36 | - | 86 | - | 560 | - | 68 | - | - | - | - | - |

| | | | | | | | | | | | | | | | | |
|------------------|----|---|--------------|---|------------|---|--------------|---|--------------|---|------------|---|------------|---|-----------|---|
| OC Totals | 11 | - | 8,209 | - | 458 | - | 1,436 | - | 5,145 | - | 964 | - | 195 | - | 11 | - |
|------------------|----|---|--------------|---|------------|---|--------------|---|--------------|---|------------|---|------------|---|-----------|---|

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

Thursday, October 4, 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 September 6, 2018 1

ACTION The Board will be requested to approve subject Minutes.

AGENDA
South Orange County Wastewater Authority
Board of Directors Meeting
October 4, 2018

B. Minutes of Finance Committee Meeting(s)

Finance Committee Meeting December 6, 2017 26

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

C. Financial Matters

1) Monthly Financials Report for June 2018 29

a) Summary of Disbursements for June 2018 – Exhibit A 31

b) Schedule of Funds Available for Reinvestment – Exhibit B 32

c) Schedule of Cash and Investments – Exhibit C 33

d) Capital Summaries – Exhibit D 34

Capital Projects - Graph – Exhibit D1 35

e) Budget vs. Actual Expenses

O&M Budget vs. Actual Comparison by PC – Exhibit E1 & E1.2 36

Budget vs. Actual Comparison - Engineering – Exhibit E2 44

Budget vs. Actual Comparison Administration – Exhibit E3 45

Actual General Fund Expenses Exhibit E3.2 46

Budget vs. Actual Comparison Information Technology (IT) – Exhibit E4 ... 47

f) FY 2017-18 Actual Fringe Pool and Fringe Rate, 75.8 percent compared to Budget Fringe Rate of 74.2 percent, a 1 percent Change (Exhibit E5) ... 48

ACTION The Board will be requested to ratify the Summary of Disbursements for the period from June 1, 2018 through June 30 2018, totaling \$2,432,143, and to receive and file the June 2018 Financial Reports as submitted.

D. Operational Reports

1) Monthly Operations Report – August 2018 49

2) Ocean Outfall Discharges 60

3) Beach/Ocean Monitoring Report 62

4) Recycled Water Report 85

5) Pretreatment Report 89

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

E. Capital Improvement Program

Status Report(s) 92

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

AGENDA
South Orange County Wastewater Authority
Board of Directors Meeting
October 4, 2018

F. Project Committee No. 2

Change Order – Carollo Engineers Design Service Contract [PC2]..... 105

ACTION The PC2 Board will be requested to approve Change Orders 5 and 6 to the design services contract with Carollo Engineers for the J.B. Latham Treatment Plant Package 'B' Improvements Project in the amount of \$65,594.

G. Minutes of Engineering Committee Meeting(s)

Engineering Committee Meeting August 9, 2018..... 108
Engineering Committee Meeting May 10, 2018 111

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

5. ENGINEERING MATTERS

A. Award Contract – CTP Tertiary System Upgrade Project [PC 15]..... 117

ACTION The Board will be requested to approve the award of construction contract to SS Mechanical at a price not to exceed \$883,211.

6. GENERAL MANAGER'S REPORTS

A. Final 2016-17 Use Audit..... 124

ACTION The Board will be requested to approve the Use Audit and collection from and payments to SOCWA member agencies consistent with the results of the FY 2016-17 Use Audit as submitted.

B. Final 2016-17 Use Audit Reconciliation to Finance Statements Audit 208

ACTION The Board will be requested to receive and file the SOCWA Financial Reconciliation for the Year Ended June 30, 2017.

C. Unfunded Pension Liability (UAL) Distribution by Member Agencies Results and Recommendation 210

ACTION The Board will be requested to approve member agency Distribution Percentages, Timing and Future Application (as detailed in staff report).

D. Monthly Progress Report on State Audit Recommendations 238

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

AGENDA
South Orange County Wastewater Authority
Board of Directors Meeting
October 4, 2018

E. Resolution No. 2018-13 – Basin Plan Amendment..... 242

- ACTION
- 1) SOCWA Board of Directors approve Resolution No. 2018-13 – Basin Plan Amendment.
 - 2) As needed, costs to be assigned through PC 12 to SMWD and MNWD (as noted in FY 2018-19 Budget Assumptions Item 2: expenses incurred for single agency or group of agencies that is less than a full PC may be billed to and paid for by the incurring agency or agencies).
 - 3) SMWD and MNWD to be requested to authorize the funding commitment.

F. Contract Extension – Chlor-Alkali Products..... 245

- ACTION
- The Board will be requested to award an up to one (1) year contract extension to Olin Corporation DBA Olin Chlor-Alkali Products for Chlor-Alkali Products for (5.25%-12.5% Sodium Hypochlorite and 30%-50% Sodium Hydroxide) with the prices as indicated including applicable additional charges.

G. Change Order – Treatment Cost Allocation Analysis 248

- ACTION
- The Board will be requested to approve the Carollo Engineering Contract Change Order for the Treatment Cost Allocation Analysis in the amount of \$28,374 for a total not to exceed amount of \$68,268.

H. General Manager’s Status Report..... 251

- ACTION
- The Board will review the General Manager’s Status Report:
- Board Questions
 - Receive and file

7. CLOSED SESSION

A. Conference with Legal Counsel – Anticipated Litigation

Significant exposure to litigation pursuant to paragraph (2) of subdivision (d) of section 54956.9: 1 potential case

B. Conference with Legal Counsel – Existing Litigation

Noson v. SOCWA et al., Case No. 30-2018-01016336-CU-OE-CJC
Pursuant to Government Code section 54956.9 (d)(1).

AGENDA
South Orange County Wastewater Authority
Board of Directors Meeting
October 4, 2018

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 an unanimous vote.]

ADJOURNMENT

THE NEXT REGULAR SOCWA BOARD MEETING WILL BE HELD ON
November 1, 2018 at 8:30 a.m.

**NOTICE OF SPECIAL MEETING
OF THE
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
BOARD OF DIRECTORS**

October 4, 2018

9:30 a.m. or Directly Following the Board of Directors Meeting

NOTICE IS HEREBY GIVEN that a Special Meeting of the South Orange County Wastewater Authority (SOCWA) Board of Directors has been called by the Chairman to be held on **October 4, 2018, at 9:30 a.m. or directly following the Board of Directors Meeting** 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 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 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 BOARD MEMBERS, EXCEPT THAT, IF SUCH WRITINGS ARE DISTRIBUTED IMMEDIATELY PRIOR TO, OR DURING, THE MEETING, THEY WILL BE AVAILABLE IN THE BOARD MEETING ROOM.

AGENDA

1. Call Meeting to Order

2. Public Comments

THOSE WISHING TO ADDRESS THE BOARD OF DIRECTORS 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. Open Session

A. Update on Project Committee No. 15 Critical Infrastructure Repairs

ACTION Discussion and direction to staff.

NOTICE OF SPECIAL MEETING – BOARD OF DIRECTORS

October 4, 2018

Page 2 of 2

4. 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 g Niguel Water District - Case Number RIC 1721240*.

ACTION Report out of Closed Session.

I hereby certify that the foregoing Notice was personally emailed or mailed to each member of the SOCWA Board of Directors 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 Board of Directors at the usual agenda posting location of the South Orange County Wastewater Authority and at www.socwa.com.

Dated this 1st day of October 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**

October 11, 2018

8:30 a.m.

NOTICE IS HEREBY GIVEN that a Regular Meeting of the South Orange County Wastewater Authority (SOCWA) Engineering Committee has been scheduled to be held on **October 11, 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 BOARD ENGINEERING COMMITTEE LESS THAN 72 HOURS PRIOR TO THE MEETING, THEY WILL BE AVAILABLE IN THE RECEPTION AREA OF THE AUTHORITY OFFICE AT THE SAME TIME AS THEY ARE DISTRIBUTED TO THE ENGINEERING COMMITTEE MEMBERS, EXCEPT THAT, IF SUCH WRITINGS ARE DISTRIBUTED IMMEDIATELY PRIOR TO, OR DURING, THE MEETING, THEY WILL BE AVAILABLE IN THE ENGINEERING COMMITTEE MEETING ROOM.

AGENDA

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

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

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

NOTICE OF ENGINEERING COMMITTEE

October 11, 2018

Page 2 of 2

3. Review/Approval of Meeting Minutes (July '18 and September '18)
4. Operations Report
5. Regional Treatment Plant Draft Ten Year Plan Review – Receive Comments (Project Committee 17)
6. Coastal Treatment Plant Export Sludge System Upgrade Status Update (Project Committee 15)
7. Coastal Treatment Plant Miscellaneous Improvements 2017 Project Wrap-Up (Project Committee 15)

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 8th day of October 2018.



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

October 1, 2018, 8:30 a.m.

Board Room

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>.

- **STAFF INTRODUCTIONS**

DISCUSSION ITEM

1. ORANGE COUNTY WATER RELIABILITY STUDY 2018

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.)

2. 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
- 3. 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
October 3, 2018, 8:30 a.m.

Teleconference Site:
Director Yoo Schneider will participate
via teleconference at the following location:
921 Canal St, New Orleans, LA 70112
949.278.5761

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

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(NEXT RESOLUTION NO. 2075)

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. DISCUSSION SERIES PART 3 - LOCAL RESOURCES PROGRAM (LRP) LONG-TERM POLICY DISCUSSION

Recommendation: Receive input and discuss the information.

3. CALIFORNIA WATERFIX ACTIVITIES UPDATE

Recommendation: Review and discuss the information presented.

4. 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.

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

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

Recommendation: Review and discuss the information presented.

ADJOURNMENT

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**MEETING OF THE
BOARD OF DIRECTORS OF THE
MUNICIPAL WATER DISTRICT OF ORANGE COUNTY**
Jointly with the
ADMINISTRATION & FINANCE COMMITTEE
October 10, 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)

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PROPOSED BOARD CONSENT CALENDAR ITEMS

1. TREASURER'S REPORT
 - a. Revenue/Cash Receipt Report – September 2018
 - b. Disbursement Approval Report for the month of October 2018
 - c. Disbursement Ratification Report for the month of September 2018
 - d. GM Approved Disbursement Report for the month of September 2018
 - e. Water Use Efficiency Projects Cash Flow – September 30, 2018
 - f. Consolidated Summary of Cash and Investment – August 2018
 - g. OPEB Trust Fund monthly statement
2. FINANCIAL REPORT
 - a. Combined Financial Statements and Budget Comparative for the Period ending August 31, 2018

ACTION ITEMS

3. HEALTH SAVINGS ACCOUNT ELECTIONS FOR 2019

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

4. HEALTH BENEFIT RATES FOR 2019

5. DISPOSAL OF FIXED ASSETS

6. CALPERS ANNUAL VALUATION REPORT AS OF JUNE 30, 2017

7. DEPARTMENT ACTIVITIES REPORTS

- a. Administration
- b. Finance and Information Technology

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

OTHER ITEMS

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

ADJOURNMENT

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MEETING OF THE
BOARD OF DIRECTORS OF THE
MUNICIPAL WATER DISTRICT OF ORANGE COUNTY
Jointly with the
PUBLIC AFFAIRS AND LEGISLATION COMMITTEE
October 15, 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

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PUBLIC PARTICIPATION

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

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

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DISCUSSION ITEMS

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

ACTION ITEMS

2. MWDOC LEGISLATIVE POLICY PRINCIPLES ANNUAL UPDATE
3. ISDOC CALL FOR NOMINATIONS

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.)

4. EDUCATION PROGRAM UPDATE
5. UPDATE ON 2019 OC WATER SUMMIT
6. OCTOBER 11TH WATER POLICY DINNER
7. PUBLIC AFFAIRS ACTIVITIES REPORT

OTHER ITEMS

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

ADJOURNMENT

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REGULAR MEETING
OF THE BOARD OF DIRECTORS
MUNICIPAL WATER DISTRICT OF ORANGE COUNTY
18700 Ward Street, Board Room, Fountain Valley, California
October 17, 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

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NEXT RESOLUTION NO. 2075

CONSENT CALENDAR (Items 1 to 5)

(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. September 5, 2018 Workshop Board Meeting
- b. September 19, 2018 Regular Board Meeting
- c. September 19, 2018 MWDOC Water Facilities Corporation Board Meeting

Recommendation: Approve as presented.

2. COMMITTEE MEETING REPORTS

- a. Planning & Operations Committee Meeting: September 4, 2018
- b. Administration & Finance Committee Meeting: September 12, 2018
- c. Public Affairs & Legislation Committee Meeting: September 17, 2018

- d. Executive Committee Meeting: September 20, 2018

Recommendation: Receive and file as presented.

3. TREASURER'S REPORTS

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

Recommendation: Ratify and approve as presented.

- c. Summary of Cash and Investment and Portfolio Master Summary Report (Cash and Investment report) as of August 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 August 31, 2018

Recommendation: Receive and file as presented.

5. HEALTH SAVINGS ACCOUNT ELECTIONS FOR 2019

Recommendation: Approve an increase to the District's annual Health Savings Account (HSA) contribution amounts to the Kaiser Consumer Driven Health Plan (CDHP). The Anthem PPO CDHP contribution amounts remain unchanged for 2019.

End Consent Calendar

DISCUSSION ITEM

6. DISCUSSION REGARDING SPECIAL DISTRICT CANDIDATE/ELECTION/BALLOT REQUIREMENTS

Recommendation: Review, discuss, and provide direction to staff.

ACTION ITEMS

7-1 MWDOC LEGISLATIVE POLICY PRINCIPLES ANNUAL UPDATE

Recommendation: Review and adopt the updated Legislative Policy Principles

7-2 ISDOC CALL FOR NOMINATIONS

Recommendation: review the list of candidates for the ISDOC Executive Committee and authorize President Brett Barbre or his designee to vote on MWDOC's behalf.

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

8. GENERAL MANAGER'S REPORT, OCTOBER 2018 (ORAL AND WRITTEN)

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

9. 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

10. PUBLIC EMPLOYEE PERFORMANCE EVALUATION

Title: General Manager
Government Code Section 54957

ADJOURNMENT

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GENERAL MANAGER'S REPORT OF STAFF ACTIVITIES OCTOBER 2018

| | |
|--|--|
| MWDOC Agencies Managers Meeting | <p>MWDOC held its Member Agency Managers' meeting at its office in Fountain Valley on Thursday, September 20, 2018.</p> <p>In attendance were: Mike Grisso (Buena Park), Lisa Ohlund (EOCWD), Dennis Cafferty (El Toro WD), Mark Sprague (Fountain Valley), Ken Vecchiarelli (Golden State WC), Paul Weghorst (IRWD), Dave Youngblood (Laguna Beach CWD), Phil Lauri (Mesa Water), Drew Atwater (Moulton Niguel WD), Steffen Catron, Mark Vukojevic (Newport Beach), Adam Hutchinson, Alicia Dunkin, Greg Woodside (OCWD), Jose Diaz (Orange), Dave Rebensdorf (San Clemente), Steve May (San Juan Capistrano), Dan Ferons (SMWD), Jerry Vilander (Serrano WD), Rick Shintaku, (South Coast WD), Michael Perea (TCWD), Art Valenzuela (Tustin), Rosanne Weston (Yorba Linda WD), Fiona Sanchez (IRWD), Philip Bogdanoff (Anaheim), Don Bunts (SMWD)</p> <p>MWDOC Staff: Rob Hunter, Karl Seckel, Charles Busslinger, Melissa Baum-Haley, Damon Micalizzi, Kevin Hostert, Chris Lingad</p> <p>Agenda Items:</p> <ol style="list-style-type: none"> 1. OC Water Reliability Study Workshop 2. March GM Report 3. Legislative Reports 4. WEROC Matrix 5. Grant Funding Opportunities <p>Reminder: MWDOC Policy Dinner.....October 11, 2018 Next meeting will held October 18, 2018.</p> |
| Meetings | <p>Charles Busslinger attended the September 27, 2018 MET Member Agency Water Quality Manager meeting which included a review of MET's use of chorines and chloramines since the 1970s.</p> <p>Charles Busslinger attended the monthly San Juan Basin Authority Board Meeting on October 9, 2018. Santa Margarita WD is working on two studies for the San Juan Watershed Project to address comments received on the Draft EIR. SMWD staff anticipates bringing the Programmatic EIR to their Board for consideration of adoption in December 2018.</p> <p>Karl Seckel, Charles Busslinger, South Coast director Bill Green, South Coast Legal Counsel Kari Vozenilek and myself participated in a discussion with Bob Yamada and some of his staff members to better understand the ins and outs of the Poseidon Carlsbad Water Purchase Agreement negotiation, construction and operations. Bob and his staff were very complimentary of the efforts of Poseidon Resources regarding the plant in San Diego County. The purpose of the meeting was to help South Coast</p> |

| Meetings (continued) | understand issues associated with contracts and contract performance and negotiations, a phase that will soon be started on Doheny. | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|-----------|--------------|-------------|---------------|-------------|---------------|---------|-----|-----|-----|------|------|-------------------|-----|-----|-----|------|------------|-------------------|-----|-----|-----|------|------|
| <div>MET ITEMS CRITICAL TO ORANGE COUNTY</div> | | | | | | | | | | | | | | | | | | | | | | | | | |
| MET's Water Supply Conditions | <p>The Northern California accumulated precipitation (8-Station Index) is reporting 40.9 inches or 82% of normal as of September 27. In the month of September 2018, accumulated precipitation reached 0.0 inches, which is 0.9 inches below normal compared to the historical average. The Northern Sierra Snowpack peaked at 12.3 inches on April 1st, which is 43% of normal. Lake Oroville storage is at 40% of total capacity and 64% of normal. The San Luis Reservoir has a current volume of 54% of the reservoirs total capacity and is 117% of normal.</p> <p>In May, the Department of Water Resources (DWR) increased the State Water Project (SWP) "Table A" allocation to 35%, giving Metropolitan approximately 669 thousand acre-feet (TAF) in SWP deliveries this water year. Metropolitan staff does not anticipate any further changes to this allocation.</p> <p>On the Colorado River system, snowpack is measured across four states in the Upper Colorado River Basin. As of April 15, 2018, snowpack measured at 74% 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 is projecting that there is a 0% chance of a shortage on the Colorado River in 2019, increasing to about 57% in 2020.</p> <p>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.</p> <div><div>2018 Supply Demand Balances</div><table><tr><th>Scenario</th><th>Allocation %</th><th>SWP (TAF)</th><th>CRA (TAF)</th><th>Total (TAF)</th><th>Balance (TAF)</th></tr><tr><td>Current</td><td>30%</td><td>587</td><td>945</td><td>1532</td><td>- 98</td></tr><tr><td>Anticipated Range</td><td>35%</td><td>683</td><td>945</td><td>1628</td><td>~ Balanced</td></tr><tr><td>Anticipated Range</td><td>40%</td><td>779</td><td>945</td><td>1724</td><td>+ 94</td></tr></table><p>1.63 MAF Current Demand Projection</p></div> | Scenario | Allocation % | SWP (TAF) | CRA (TAF) | Total (TAF) | Balance (TAF) | Current | 30% | 587 | 945 | 1532 | - 98 | Anticipated Range | 35% | 683 | 945 | 1628 | ~ Balanced | Anticipated Range | 40% | 779 | 945 | 1724 | + 94 |
| Scenario | Allocation % | SWP (TAF) | CRA (TAF) | Total (TAF) | Balance (TAF) | | | | | | | | | | | | | | | | | | | | |
| Current | 30% | 587 | 945 | 1532 | - 98 | | | | | | | | | | | | | | | | | | | | |
| Anticipated Range | 35% | 683 | 945 | 1628 | ~ Balanced | | | | | | | | | | | | | | | | | | | | |
| Anticipated Range | 40% | 779 | 945 | 1724 | + 94 | | | | | | | | | | | | | | | | | | | | |

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| MET's Finance and Rate Issues | <p>As of August 31, the short-term portfolio balance is \$549 million and has returned 0.20%, which is a 0.02% out performance of 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.</p> <p>The long-term portfolio balance is \$345.1 million and has returned 0.46%, which is a 0.01% out performance of the benchmark. Since inceptions, the long-term portfolio have yielded of total return of 3.29%, which is an out performance of 0.29% compared to the benchmark. Portfolio returns have been increasing as a result of higher interest rates.</p> <p>Water transactions through August were 36.5 TAF lower than budget and 34.0 TAF higher than the 5-year average. The under budget performance is due to lower than budget untreated water sales and revenues.</p> |
| Colorado River Issues | <p><u>Colorado River Board of California Elects New Chairman</u></p> <p>At the Colorado River Board of California's (the board) August meeting, the board elected a new Chairman, Peter Nelson of Coachella Valley Water District. This election followed the resignation of Bart Fisher as Chairman in June. Under the state's Water Code the Chairperson of the board presides at board meetings and serves, ex officio, as the "Colorado River Commissioner," the state's principal representative in Colorado River interstate matters. Pursuant to the updated rules and regulations adopted by the board in June, the board will hold an election for Chairperson in January of next year.</p> <p><u>Bureau of Reclamation August 24-Month Study</u></p> <p>The U.S. Bureau of Reclamation issued the August 24-Month Study, which projects Colorado River reservoir operations for the following two years. Pursuant to the 2007 Guidelines for Coordinated Operations (2007 Guidelines), the August 24-Month Study is used to set the operational tier for the coordinated operation of Lake Powell and Lake Mead. The study projects an 8.23 million acre foot release from Lake Powell in water year 2020 based on the most probable inflow projections in 2019. This amount would be below the release projected in last year's August 24-Month Study in which the most probable inflow projection would have resulted in a 9 million acre foot release. This reduced release from Lake Powell has increased the likelihood to a level above 50% that Lake Mead would fall below the elevation of 1,075 feet at the end of 2019, which would trigger the first ever shortage declaration in the Lower Basin. The first tier of shortage would impact water deliveries to Arizona and Nevada.</p> <p><u>Drought Contingency Plan Development</u></p> <p>Following the seven Colorado River Basin States (seven Basin States) Principals meeting in Utah last month, the small drafting group tasked with developing six documents necessary for interstate and federal implementation of both the Lower Basin Drought Contingency Plan and the Upper Basin Drought Contingency met in Denver for two days of discussion and drafting. The small drafting group also hosted a webinar to provide an opportunity to review and comment on the current draft documents for technical and legal representatives of the seven Basin States and water agencies. Metropolitan staff is also working to develop the intrastate agreements that</p> |

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| Colorado River Issues (continued) | <p>would be necessary in order to implement the Lower Basin Drought Contingency Plan within California. The Principals are scheduled to meet to review the draft documents and provide direction to the small drafting group in Las Vegas on September 18. If these negotiations are successful, the Lower Basin Drought Contingency Plan agreement and related intrastate agreements may be brought to Metropolitan's Board for consideration later this year.</p> <p><u>Meeting with Quechan Tribal Council</u></p> <p>On August 15, Chairman Record and Metropolitan staff met with the Quechan Tribal Council at the Tribe's request to discuss the potential for development of a water conservation program on tribal lands. The Quechan Tribe is part of the Yuma Project Reservation Division and observed the development of the Bard pilot seasonal fallowing program on the neighboring lands. The Tribe asked questions of Metropolitan staff and Chairman Record about the potential to expand the seasonal fallowing program onto tribal land, or to develop a new agricultural conservation program. Metropolitan explained that it would be open to a conservation program with the tribe, provided the community is not negatively impacted by the program. The tribal council thanked Metropolitan for participating in the meeting and would meet internally to see what next steps in the development of a potential program are warranted.</p> |
| Bay Delta/State Water Project Issues | <p><u>State Water Resources Control Board</u></p> <p>The SWRCB held a public meeting on August 21 and 22 to receive oral public comments on proposed amendments to the Bay-Delta Water Quality Control Plan (WQCP) for the Lower San Joaquin River and Southern Delta as part of the Phase 1 process. The draft final proposal would update water flow objectives in the Lower San Joaquin River and its major tributaries, the Stanislaus, Tuolumne, and Merced Rivers, and would amend southern Delta salinity objectives. Metropolitan staff worked with the State Water Contractors (SWC) to develop and submit comments on the proposed WQCP amendments on July 27, 2018. After two full days of public comment, the SWRCB announced it will reconvene on the topic on November 7, 2018. Continuing the meeting and deferring final action on the proposed amendments will provide the SWRCB members with additional time to weigh and consider the information and comments, including the status of efforts to develop settlement agreements.</p> <p><u>Science Activities</u></p> <p>The experimental operation of the Suisun Marsh Salinity Control Gates, as part of the state's Delta Smelt Resiliency Strategy, started on August 1 and is scheduled to continue through the end of August. The operation is designed to lower salinity in Suisun Marsh in an effort to create more hospitable habitat for Delta smelt. The California Department of Water Resources (DWR) will conduct monitoring to examine Delta smelt distribution, as well as monitor habitat parameters, such as water quality, flow, plankton and clams. The SWC are supplementing DWR's operations and monitoring program with additional monitoring to further evaluate the potential benefits of the project for Delta smelt.</p> <p>A scientific paper co-authored by Corey Phillis and David Fullerton in collaboration with consultants at ESSA Technologies Ltd. was accepted at the peer-reviewed journal Limnology & Oceanography. The manuscript systematically reviews and</p> |

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| Bay Delta/State Water Project Issues (continued) | <p>retests relationships describing how fish populations respond to environmental variables in the Bay Delta, many of which are formerly or currently used to inform regulatory actions and constraints (e.g. Fall X2 requirements in the U.S. Fish and Wildlife Biological Opinion). The study finds that the relationships generally have held up with more years of data, but the amount of variation described by the environmental variables has declined, suggesting the variables have diminishing value as policy tools.</p> <p>Staff is participating in the Central Valley Salmon Habitat Partnership (CVSHP), 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 August 2 management board meeting, the group discussed several pilot projects that could be considered, and that they plan to decide which projects to support at the next quarterly board meeting. The CVSHP science committee is developing an implementation plan that will rely on the best available science to identify priority restoration projects to support a variety of habitats for salmon and steelhead. Staff is providing input to the implementation plan.</p> <p>Metropolitan staff continued to participate in the National Oceanic and Atmospheric Administration Fisheries process to improve the Winter-run Life Cycle Model (WRLCM), which was used for analyses in the National Marine Fisheries Service Biological Opinion for California WaterFix. The workshops provide stakeholders an opportunity to understand the model, address model structure and capabilities, identify knowledge gaps, and propose improvements. Metropolitan staff participated in the August WRLCM workshops, which addressed changes to the model framework to improve how the model characterizes uncertainty, and addressed the capabilities of the model to evaluate salmon behavior with the enhanced Particle Tracking Model. Understanding how the model functions and the model assumptions enable us to better review the utility of this model to estimate effects of California WaterFix on salmon populations.</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 August, the CSAMP Policy Group developed a set of priorities for 2019-2020 focused on Delta smelt and salmon actions, development of integrated science plans for Delta smelt and salmon and continuing the development of structured decision making tools. The CSAMP Policy Group will consider approving the priorities in September 2018. Metropolitan staff also participated in CAMT and salmon subcommittee discussions on the feedback received at the CAMT Salmon Research Workshop held in June 2018. The feedback is being used to develop recommendations for scientific salmonid studies that CAMT could support.</p> <p>Metropolitan staff participated in the Sutter Bypass workgroup to discuss the results of juvenile salmon survival from a study conducted this spring and to identify next research projects that are needed to better understand how fish benefit from the Sutter Bypass and Butte Sink habitats. These studies are helping to identify how juvenile salmon use this habitat and what restoration actions are needed to improve salmon use and survival.</p> |
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| Bay Delta/State Water Project Issues (continued) | <p>Metropolitan staff toured the UC Davis hydraulics lab to learn about the types of experiments that can be conducted to test different diversion screening methods to reduce entrainment and how hydrodynamics affect fish routing and behavior. Metropolitan staff is developing ideas for proposed projects that would use this facility to test methods to reduce entrainment of fish into diversions and to better understand how changes in velocities that may result from water project operations influence fish behavior.</p> <p><u>Delta Flood Emergency Management Plan</u></p> <p>In August, DWR completed a series of workshops with their executive, engineering and operations Metropolitan staff, to coordinate final input to the Delta Flood Emergency Management Plan (DFEMP). DWR plans to use in-house and consulting staff to incorporate input into a final draft DFEMP in October and a final DFEMP in fall 2018.</p> <p>DWR also completed analysis in August to determine optimum volume and timing of reservoir releases from Sacramento and San Joaquin River reservoirs to support freshwater pathway development and export resumption. The U.S. Army Corps of Engineers has assigned a new emergency operations manager to participate in Delta flood emergency management and implementation with federal and state agencies.</p> |
| East Orange County Feeder No. 2 | <p><u>Use of East Orange County Feeder No. 2 for Conveyance of Groundwater and/or Poseidon Water</u></p> <p>MWDOC will be setting meetings 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, other local project or projects such as the pump-in to the EOCF#2.</p> |
| South Orange County Projects | <p><u>Doheny Desal Project</u></p> <p>Report Outlined in Engineering below.</p> <p><u>SMWD Trampas Canyon Recycled Water Reservoir</u></p> <p>Report is outlined in Engineering below.</p> <p><u>San Juan Watershed Project</u></p> <p>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</p> |

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| | performed. The results will be incorporated into the Responses to Comments and brought to the Board for consideration of adopting the EIR. |
| ENGINEERING & PLANNING | |
| Orange County Reliability Study | Staff and CDM Smith completed the QC (Quality Control) version of the Reliability Study in a format that included an 81 page "Background Report" that does not include evaluations and findings and a 120 page Powerpoint presentation that included the project evaluations and findings. The Background Report was sent out ahead of the workshop and on September 20, a 3 ½ workshop was held on the study that included 26 attendees from among 20 of our agencies. A summary of the comments collected at the meeting will be provided to the P&O Committee. Staff anticipates an update to the MWDOC P&O Committee on October 1 st and then a presentation to WACO on October 5. |
| Workshop with B&V Engineers and Hazen & Sawyer Consultants | MWDOC held a meeting on August 31 to discuss, in a workshop setting, issues associated with the integration of local projects into the Orange County system, especially with respect to mixing waters of differing qualities. This concept can include ocean desalination projects, other local project or projects such as the pump-in to the EOCF#2. Operations and water quality experts participated from MET, Black & Veatch Engineers, Hazen & Sawyer Consultants and Means Consulting. Ed Means from Means Consulting will be working with the other consultants to prepare a summary report to help us anticipate and understand the associated concerns. |
| Strand Ranch Project | The analysis of this project was included in the OC Water Reliability Study. Based on the analysis, additional discussions will be held with IRWD. In addition, we believe discussions and concepts associated with a longer-term program will also be developed based on the study results. As progress is made, staff will report back to the Board. |
| Poseidon Resources | <p>The OCWD Board approved a new non-binding 2018 Water Reliability Agreement (Term Sheet) with Poseidon Resources On July 18, 2018.</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 comply with new regulations (referred to as the Ocean Plan amendments) which were approved by the State Water Resources Control Board in May 2015. Poseidon expects the SARWQCB to act on its permit in the next 6 months. Assuming success, Poseidon would then seek a permit from the California Coastal Commission in 2019.</p> |
| SMWD Rubber Dams Project | <p>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 |

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| SMWD Rubber Dams Project (continued) | <ul style="list-style-type: none"> • 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> |
| Doheny Ocean Desalination Project | <p>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.</p> <p>South Coast staff and consultants are in the process of responding to comments submitted regarding the EIR for the project. They anticipate adopting the response to comments in December 2018.</p> |
| Trampas Reservoir Recycled Water Project by SMWD | <p>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:</p> <ol style="list-style-type: none"> 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) <p>The construction of the facilities is being completed in three phases:</p> <ol style="list-style-type: none"> 1) Preconstruction/Site Preparation for the Dam and Pump Station Construction 2) Dam and Pipelines 3) Pump Station <p>PROJECT STATUS</p> <p>Preconstruction/Site Preparation</p> <p>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 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>Dam and Pipelines</p> <p>The \$81M Construction Contract was awarded in December 2017 and is approximately 25% complete.</p> <p>Pump Station</p> <p>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 and the District has provided review comments. The design process is likely to continue thru the</p> |

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| | end of this year, and the project will likely be available to start the construction bidding process in January 2019. Completion of the construction is expected to be in January 2020, about 3 months ahead of the Reservoir and Dam completion |
| EMERGENCY PREPAREDNESS | |
| Coordination with WEROC Member Agencies | <p>Ongoing: WEROC, with Michal Baker as the lead consultant, is facilitating 19 agencies through the process of updating the Orange County Water and Wastewater Multi-Jurisdictional Hazard Mitigation Plan. Update: Currently, a draft of the plan is out for public review. The plan can't be submitted until all participating agencies have distributed the plan using agency website and social media platforms. Next steps: Submittal to CalOES & FEMA, and local agency approval.</p> <p>WEROC Radio Replacement Update: Francisco Soto continues to work with member agencies, Motorola, and the Sheriff's Communications staff to implement the OC 800 MHz radio system for WEROC. Update: The transition to the OC 800 MHz system has been completed. WEROC conducted the first test of the new 800 MHz Radio System on Wednesday, September 12, 2018. The test was successful with 100% of participating agencies checking in and being heard clearly. Radio tests will be conducted on the second Wednesday of each month.</p> <p>Francisco Soto provided 800MHz training to Serrano Water District staff. Training consisted of a description of the overall system, its intended use, and hands on training. WEROC and the County's Communication Division is available to provide additional training to agency staff if needed.</p> <p>Kelly Hubbard met with South Coast Water District staff and the City of San Clemente's Emergency Manager to review the Draft Palisades Dam Emergency Action Plan. Kelly walked the group through response scenario considerations and made some recommendations to meet the revised requirements.</p> <p>Francisco, Melissa Baum-Haley and Kelly had a conference call with Trabuco Canyon Water District (TCWD) on the FEMA Hazard Mitigation Grant eligibility and the application process. Staff also provided info on services provided by the MWDOC Grants Consultant.</p> <p>Kelly is working with TCWD and the County on writing the Holy Incident-Post Fire Debris Flow Response Plan. TCWD has a facility within the possible debris flow area and is identifying how to best protect the facility, as well as what the impacts of its loss would be.</p> |
| Training and Programs | Francisco provided three separate Standard Emergency Management System (SEMS)/National Incident Management System (NIMS)/ Incident Command System (ICS) courses for our member agencies. These training courses are required for all staff for agencies trying to meet NIMS compliance. Approximately 60 member agency staff were trained, as well as 5 MWDOC staff. The following trainings were completed: |

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| Training and Programs (continued) | <ul style="list-style-type: none"> • September 10, 2018, at Moulton Niguel Water District • September 11, 2018, at Santa Ana Corporate Yard • September 19, 2018, at Yorba Linda Water District <p>Kelly provided Exercises Made Easy on behalf of the OCEDO Exercise Design Committee to individuals, including staff from the WEROC member agencies. The County-Wide exercise in January has significant participation from agencies who have not hosted a disaster exercise in many years. This presentation was to provide resources on how to put together and develop an agency's training and exercise program.</p> <p>Janine Schunk, Francisco and Kelly attended the Orange County Water Association (OCWA) Pipe Tapping Contest and BBQ. This annual event is a great opportunity to chat with member agency field staff about how WEROC can assist in a disaster, as well as for WEROC staff to learn about the member agencies.</p> <p>Francisco and Kelly attended the California Emergency Services Association (CESA) 2018 Annual Training and Conference in Indian Wells. This is the only state-wide professional association for emergency management. The conference provides excellent opportunities to learn from other agencies and recent disasters.</p> <p>Kelly attended the OCFA hosted program "VEGAS STRONG: After Action Review of the Route 91 Harvest Festival Shooting" which included responders and emergency managers from Las Vegas. FEMA has released an After-Action report on the response. The 1st Anniversary of the shooting was Monday, October 1, 2018.</p> |
| Coordination with the County of Orange | <p>Francisco & Kelly attended the August Orange County Emergency Management Organization (OCEDO) General Meeting and Kelly attended the OCEDO Exercise Design meeting. Jessica Neuman and Scott Smith of Westbound Communications provided updates on ReadyOC and If You See Something, Say Something Campaign. The Emergency Management Division provided an overview of the County of Orange Mass Evacuation and Joint Information System Annex. The Exercise Design meeting continues to plan for the January 2019 county-wide exercise.</p> <p>County and FEMA Recovery Exercise Update: WEROC staff is working with the County and FEMA on a Recovery Exercise on October 18, 2018 that involves responding to a 7.8 earthquake on the San Andreas Fault. The exercise scenario will begin 3 weeks after the earthquake and focus on recovery operations. The exercise is unique in that it is testing long term recovery concepts by focusing in on housing and infrastructure repair. Kelly continues to participate and work with the County to develop this exercise.</p> <p>Ongoing: WEROC staff participation in the OA Agreement Revision Working Group. Kelly previously met with the ISDOC Executive Committee to present the current status of the Working Group and OA Agreement revision process. Kelly informed the ISDOC Executive Committee that MWDOD has formally requested that WEROC be added to the OA Agreement as a direct voting member and discussed the potential of how this representation could impact ISDOC's representation to the OA Executive Board. Kelly met with the ISDOC Executive</p> |

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| Coordination with the County of Orange (continued) | <p>Committee a second time to provide some additional information and to request a formal stance on changes to the OA Agreement to be presented to the OA Agreement Working Group. The ISDOC Executive Committee is going to write a letter of position to the County Emergency Management Division.</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. CalOES called into the September meeting to provide further insight into the Dam Emergency Action Plan review process and to answer questions from Dam agencies. Participants asked CalOES to provide in writing what their expectation is for "coordination with impacted agencies and documentation of that coordination." Staff still has significant concerns regarding what the initial planning requirements were (stated in November 2017 by CalOES and submitted by agencies by the January 1, 2018 deadline) and what is now being required by CalOES (updated July 2018). Kelly continues to work with the State, County, Member Agencies with Dams, and local emergency agencies to try to facilitate plans that are clear and well-coordinated.</p> <p>Kelly attended the OC Operational Area Family Assistance Center (FAC) Tabletop Exercise. The FAC is a response plan for how to support the community following a mass casualty/fatality disaster.</p> |
| EOC Readiness | <p>Janine Schunk successfully participated in the OA and MET Radio Test and WebEOC tests for the month.</p> <p>Janine met with contractors to conduct annual fire extinguisher maintenance and monthly cleaning at both the North and South EOCs.</p> <p>Kelly Hubbard provided a training to potential WEROC Operational Area EOC Liaison staff at the OA EOC. The training consisted of an overview of the position, its specific functions, and lessons learned from past activations at the Operational Area EOC. Lessons learned are in the process of being incorporated into WEROC processes.</p> <p>WEROC staff met with CDR and MWDOC engineering staff to discuss how to manage and request map updates efficiently. CDR provided information on the many various map formats CDR maintains for us and some of the nuances of how that data is shared between formats. Staff discussed how to best ensure all versions of mapping are updated when appropriate, as well as how to best ensure new maps are utilizing the right data.</p> |
| Coordination with Outside Agencies | <p>Kelly had the opportunity to talk to the City of Napa Director of Public Works (previously the Water Division Chief) regarding their response to the Napa Earthquake in 2014 and the Napa/Sonoma Fires in 2017. She provided some good lessons learned, as well as a summary PowerPoint and forms they created that will be shared with our member agencies.</p> <p><i>Southern California Edison (SCE) Public Safety Power Shutoff (PSPS) Plan – Background: SCE will utilize this program to proactively shut off power in high</i></p> |

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| Coordination with Outside Agencies (continued) | <p><i>fire risk areas when extreme weather conditions present a clear and imminent threat to Edison powerlines. The idea is that Edison will proactively shutoff power to any lines that could possibly be knocked down by various weather conditions and create a fire or safety hazard. The program will provide the water utilities with very little notification of the plan being activated and does not guarantee that they will actually receive notification prior to the power being shutoff. This could result in losing power at critical water and wastewater facilities with no notification to pre-deploy generators if they are available.</i></p> <p>UPDATE: Kelly received the Edison PSPS Plan maps and is working with CDR to map what water facilities are within these areas. Agencies will use this information to work with Edison on possible impacts, concerns and to update their own Power Outage Plans. Additionally, Edison is hosting three meetings specifically for water and wastewater utilities on the new plan. Kelly attended the first meeting in Irwindale, and the second meeting via skype. These meetings are giving the utilities a better opportunity to delve into operational concerns and hopefully develop coordination plans with Edison.</p> <p>The new Orange County Fire Authority (OCFA) Deputy Fire Marshal and Fire Safety Engineer requested a meeting with WEROC. Staff provided the staff background on WEROC and how we coordinate with member agencies, the county and fire agencies. They provided some background on outreach efforts with water utilities on fire hydrant maintenance programs.</p> |
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WATER USE EFFICIENCY

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| SB 555 Water Loss Performance Standard | <p>On September 17, Joe Berg participated in the third of four Stakeholder Workshops hosted by the State Water Resources Control Board (SWRCB). These workshops are designed to gather information to formulate the water loss standard called for in Senate Bill 555. Approximately 50 water, environmental, and business representatives from throughout the state attended the workshop. The main topic of discussion was the Lifecycle Cost requirements of the legislation. SWRCB staff revealed that the standard would be focused on Real Losses from distribution systems and that Apparent Losses would be excluded. The next meeting will be held in December at a location to be determined.</p> |
| California Water Efficiency Partnership | <p>On September 19, Joe attended the California Water Efficiency Partnership quarterly membership meeting hosted by Mesa Water. More than 70 members from throughout the state attended. Agenda items included:</p> <ul style="list-style-type: none"> • SB 606 and AB 1668, aka "The Framework" – Amy Talbot, Board Chair & Mary Ann Dickinson • Codes and Standards: Why You Should Care – John Koeller, Koeller & Company • CalWEP Committee Structure – Mary Ann Dickinson • Listening Tour Summary Report- Susan Thornhill, Thornhill Associates • Rain Barrels & Backflow Prevention – Steve Garner, AWWA • Community-Based Social Marketing Project Report |

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| | <p>The next meeting will be held on December 12th at a location to be determined.</p> |
| Metropolitan Water District (MET) Water Use Efficiency Workgroup | <p>On September 20, Beth 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"> • September Board Report • State Water Resources Control Board Presentation • Update on On-Site Retrofit Program • Conservation in DAC • External Affairs Update • Member Agency Round-Table/Updates <p>The next workgroup meeting is scheduled for October 18th at Metropolitan.</p> |
| Qualified Water Efficient Landscaper (QWEL) Training | <p>On September 19 and September 26, Beth Fahl attended the final class and exam for MWDOC's QWEL Training at Irvine Ranch Water District. QWEL training is a six-week course of study and exam covering the following topics:</p> <ul style="list-style-type: none"> • Where our Water Comes From • Sustainable Landscaping • Soils • Landscape Water • Irrigation Systems • Irrigation Maintenance and Troubleshooting • Irrigation System Auditing • Field Audit • Irrigation Scheduling • Irrigation Controllers • Putting It All Together • Final Exam <p>MWDOC will be co-hosting the next six-week QWEL Training series with Yorba Linda Water District starting October 30th.</p> |
| Orange County Water Use Efficiency Coordinators Workgroup | <p>Orange County Water Use Efficiency Coordinators Workgroup</p> <p>On October 4, Steve Hedges, Rachel Davis, Traci Muldoon, and Beth hosted the Orange County Water Use Efficiency Coordinators Workgroup meeting at MWDOC. Approximately 15 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"> ○ Community Events ○ Boys/Girls Scouts Program ○ Media Kits ○ Website Development Award ○ PAW Workshop • Metropolitan Update |

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| Orange County Water Use Efficiency Coordinators Workgroup (continued) | <ul style="list-style-type: none"> ○ 16/17 and 17/18 Fiscal Year Wrap-Up ○ Update on On-Site Retrofit Program ○ External Affairs Update ● Water Use Efficiency Programs Update <ul style="list-style-type: none"> ○ Landscape Transformation Program <ul style="list-style-type: none"> ■ Updates to Program Terms and Conditions ■ Inspection Forms ○ OC-QWEL <ul style="list-style-type: none"> ■ Update on recently completed IRWD Series ■ Upcoming Classes ● Future Agenda Items <p>The next meeting is scheduled for November 1st at MWDOC.</p> |
| Water Smart Innovations Conference | <p>On October 2 – 5, Joe and Rachel Waite attended the Water Smart Innovations Conference in Las Vegas, NV. On October 3, Joe presented on MWDOC's Water Loss Control Technical Assistance Program. Rachel presented the results of MWDOC's Spray-to-Drip Irrigation Conversion Water Savings Evaluation on October 3 and 4. Joe also attended the Alliance for Water Efficiency Research Committee and Annual Membership Meeting on October 2.</p> |
| <h2 style="margin: 0;">PUBLIC/GOVERNMENT AFFAIRS</h2> | |
| Member Agency Relations | <p>Public Affairs Staff:</p> <ul style="list-style-type: none"> ● Created and distributed "Imagine a Day Without Water" Media Kit for Member Agency use on day of campaign - October 10 ● Created member agency specific bill inserts for Fall 2018 –highlighting WUE rebates ● Are coordinating participation at Laguna Beach County Water District's SmartScape 2018 (Ricki Raindrop appearance) ● Provided a Public Affairs update to member agency representatives at the monthly Water Use Efficiency workgroup meeting ● Coordinated with the Wyland Foundation and the City of Westminster to prepare materials for a brief presentation to City Council regarding the 2018 Wyland Mayors Challenge and MWDOC-Wyland OC Pocket Park award ● Provided contact information to Huntington Beach for MET video clips ● Prepared a draft OC Reliability Study background briefing paper using notes received from AGM Karl Seckel |
| Community Relations | <p>Public Affairs Staff:</p> <ul style="list-style-type: none"> ● Created slide deck for Director Schneider to use at San Juan Capistrano Rotary Club speaking engagement ● Created a slide deck for Director Schneider to use at the 2019 WEFTEC conference ● Attended OC Coastkeeper's Huntington Beach Coastal Cleanup event (Ricki Raindrop appearance) |

| | |
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| Education | <p>Public Affairs Staff:</p> <ul style="list-style-type: none"> • Attended and participated in MET Education Coordinators Meeting • Provided education program contractors with MWDOC About Us slide for inclusion in school program presentations • Provided water related tips and facts to high school program social media contractor • Provided MWDOC's "Where OC Gets Its Water" video to Inside the Outdoors • Provided water-saving tips developed for California Sprinkler Adjustment Notification System (CSANs) outreach efforts to Inside the Outdoors • Continued administrative support and coordination to fill the remaining Girl Scout Patch Program clinics • Met with high school program contractors to brainstorm the 2019 Voice4Water video contest • Met with Girl Scouts of Orange County to collaborate on Patch Program promotional materials • Created three STEM-based activities for Girl Scout Patch Program clinics • Notified member agencies and updated MWDOC website with current school program visit schedule • Met with OC Boy Scouts of America to provide program updates and recommendations for new fiscal year • Provided MET the Wyland Foundation contact information regarding their water education trailer and community murals, to pass along to MET member agency education coordinators • Provided MET a Scouts Program write up as reference for a potential Southern California Scouts program |
| Media Relations | <p>Public Affairs Staff:</p> <ul style="list-style-type: none"> • Worked with strategic digital communications contractors, HashtagPinpoint, to secure interviewees for Imagine a Day Without Water campaign videos • Submitted opinion piece to the Southern California news group and contacted editorial board requesting a meeting |
| Special Projects | <p>Public Affairs Staff</p> <ul style="list-style-type: none"> • Created and sent four invites to all database contacts for the October 11 Water Policy Forum & Dinner • Confirmed and coordinated with the Westin Hotel to host Water Policy Forum & Dinner • Developed groundwater aquifer image • Officially trademarked the use of "Ricki Raindrop" • Participated in MET Public Information Officers meeting • Are currently working on itineraries, trip logistics, guest and Director requirements for the following inspection trips: <ul style="list-style-type: none"> ○ October 12, Director Barbre Infrastructure ○ October 19-20, Director McKenney CRA ○ November 9-11, Director McKenney SWP/CV Ag • Staffed the following inspection trips: <ul style="list-style-type: none"> ○ September 14-16, Director Barbre SWP/CV Ag ○ September 28-30, Director Barbre Hoover/CRA |

| | |
|---|--|
| Special Projects (continued) | <ul style="list-style-type: none"> • Participated in WEROC Alert OC Training • Participated in CAPIO's "The Dos and Don'ts of Crisis Communications" webinar • Attended a 2019 OC Water Summit Committee meeting • Attend OC Public Relations Society of America Protos Award Ceremony and accepted an Award of Excellence on behalf of the District and mwdoc.com for Website Development • Received notification that the Laguna Beach MWDOC-Wyland Pocket Park project was nominated by the Orange County Business Council for its Eighth Annual Turning Red Tape Into Red Carpet Awards ("Sustainable and Green Development" category) • Attended a meeting with Wyland Foundation and Saddleback College to review final plans for the MWDOC-Wyland Laguna Beach Pocket Park project • Working with Web Developer to launch an RFP subscription option on mwdoc.com • Produced and distributed a MWDOC eCurrents newsletter <p>Governmental Affairs Staff:</p> <ul style="list-style-type: none"> • Attended the OC LAFCO meeting where the City of San Juan Capistrano's Focused Municipal Service Review on their water and wastewater facilities was reviewed and discussed. • Prepared the ISDOC Executive Committee Ballot and mailed to all regular ISDOC members. • Staffed the WACO Planning Committee meeting. • Staffed the ISDOC Executive Committee meeting. • Staffed the monthly WACO meeting featuring guest speaker Karl Seckel who reviewed the 2018 Water Reliability Study. |
| Legislative Affairs | <ul style="list-style-type: none"> • Governmental Affairs Staff: • Participated in the Southern California Water Committee Legislative Task Force meeting. • Prepared a veto letter for SB 998 (Dodd) – water shutoffs. • Prepared and updated the MWDOC Legislative and Regulatory Policy Principles adding staff recommendations and circulated to member agencies for feedback. • Monitored the Joint Legislative Budget Committee hearing on the extension of the State Water Project extension. • Worked with MWDOC's federal advocate to set up a meeting with the Bureau of Reclamation in support of South Coast Water District's grant application for their Doheny Desalination Project. • Attended the CSDA Conference in Indian Wells. • Attended a planning meeting with staff from Eastern Municipal Water District, Inland Empire Utilities Agency, and Western Municipal Water District to plan the DC luncheon during the ACWA conference in Washington DC in February 2019. |

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| Legislative Affairs (continued) | <ul style="list-style-type: none">• Worked with MWDOC's state legislative advocate to begin setting up meetings in Sacramento with key staff working on the non-compliant water systems. |
|--|--|



MUNICIPAL WATER DISTRICT OF ORANGE COUNTY AGENCIES MANAGERS MEETING

Street Address:
18700 Ward Street
Fountain Valley, California 92708

Mailing Address:
P.O. Box 20895
Fountain Valley, CA 92728-0895

(714) 963-3058
Fax: (714) 964-9389
www.mwdoc.com

Brett R. Barbre
President

Joan C. Finnegan
Vice President

Larry D. Dick
Director

Wayne S. Osborne
Director

Megan Yoo Schneider
Director

Sat Tamaribuchi
Director

Jeffery M. Thomas
Director

Robert J. Hunter
General Manager

MEMBER AGENCIES

City of Brea
City of Buena Park
East Orange County Water District
El Toro Water District
Emerald Bay Service District
City of Fountain Valley
City of Garden Grove
Golden State Water Co.
City of Huntington Beach
Irvine Ranch Water District
Laguna Beach County Water District
City of La Habra
City of La Palma
Mesa Water District
Moulton Niguel Water District
City of Newport Beach
City of Orange
Orange County Water District
City of San Clemente
City of San Juan Capistrano
Santa Margarita Water District
City of Seal Beach
Serrano Water District
South Coast Water District
Trabuco Canyon Water District
City of Tustin
City of Westminster
Yorba Linda Water District

LOCATION: MWDOC's Fountain Valley office is located at 18700 Ward St, and the entrance/exit is about ¼ mile south of Ellis Ave. The nearest freeway access is Euclid at the 405. Parking is available to the east of the MWDOC/OCWD Admin offices (follow driveway from Ward St to parking areas).

WHEN: Thursday, October 25, 2018 from 10:30 am to noon.

DRAFT AGENDA

1. Opportunity to add and discuss items not already listed.

Page #

2. Discussion Items:

2-1. OC Water Reliability Study Update

2-2. Colorado River Issues 2

2-3. Water Supply Report

3. Information Items:

3-1. Metropolitan Chairwoman Election 4

4. Report Items:

4-1. March GM Report 6

4-2. Legislative Reports 23

4-3. WEROC Matrix 60

4-4. Grant Funding Opportunities (email attachment)

5. Reminders

6. Next meeting will tentatively be held November 15, 2018.

Lunch will be provided immediately following the meeting.

**LOCAL AGENCY FORMATION COMMISSION
ORANGE COUNTY**

2677 North Main Street, Suite 1050
Santa Ana, CA 92705
(714) 640-5100 ♦ FAX (714) 640-5139

REGULAR MEETING AGENDA

**Wednesday, October 10, 2018
8:15 a.m.**

**Hall of Administration
Conference Room 169
333 W. Santa Ana Blvd.
10 Civic Center Plaza, Santa Ana, CA 92701**

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

- 1. CALL THE MEETING TO ORDER**
- 2. PLEDGE OF ALLEGIANCE – COMMISSIONER WILSON**
- 3. ROLL CALL**
- 4. ANNOUNCEMENT OF SUPPLEMENTAL COMMUNICATION
(Received After Agenda Distribution)**
- 5. APPROVAL OF MINUTES**

a.) September 12, 2018 – Regular Commission Meeting

6. PUBLIC COMMENT

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

7. CONSENT CALENDAR

- a.) **Focused Municipal Service Review for the City of San Juan Capistrano Water and Wastewater Utility (MSR 16-03)**

The Commission will consider the Focused Municipal Service Review for the City of San Juan Capistrano Water and Wastewater Utility Systems and adoption of the statement of determinations, as required by State law. Pursuant to the California Environmental Quality Act (CEQA), the Commission will also consider the approval of a Notice of Exemption for this project.

8. PUBLIC HEARING

None

9. COMMISSION DISCUSSION AND ACTION

None

10. COMMISSIONER COMMENTS

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

11. EXECUTIVE OFFICER'S REPORT

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

12. INFORMATIONAL ITEMS & ANNOUNCEMENTS

None

13. CLOSED SESSION

None

14. ADJOURNMENT OF REGULAR COMMISSION MEETING

NOTICE REGARDING ITEMS DISTRIBUTED TO THE COMMISSION LESS THAN 72 HOURS PRIOR TO THE LAFCO REGULAR MEETING:

Pursuant to Government Code Section 54957.5 public records that relate to open session agenda items that are distributed to a majority of the Commission less than seventy-two (72) hours prior to the meeting will be available to the public at Orange County LAFCO offices at 2677 North Main Street, Suite 1050, Santa Ana, CA 92705 during regular business hours. These records when possible will also be made available on the OC LAFCO website at <http://www.oclafco.org>.

NOTICE: *State law requires that a participant in a LAFCO proceeding who has a financial interest in a decision and who has made a campaign contribution of more than \$250 to any commissioner in the past year must disclose the contribution. If you are affected, please notify the Commission's staff before the hearing.*

LAFCO Agendas and supporting documentation are available on the Internet at <http://oclafco.org>.



Executive Committee Meeting

Tuesday, October 2, 2018

7:30 a.m.

Municipal Water District of Orange County Conference Room 101

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*

AGENDA

I. Welcome

II. Approval of Minutes

- Consider approval of the minutes for the September 4, 2018 meeting

III. Public Comments

IV. Old Business

V. New Business

- ISDOC Executive Committee Candidate Update
 - Discussion and possible action on ISDOC Executive Committee Election

VI. Treasurer's Report – Joan Finnegan

- Receive, discuss and file October 2, 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 October 25th 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, November 6, 2018
Next ISDOC Quarterly Meeting: October 25, 2018



ISDOC Executive Committee
September 4, 2018

Minutes

I. Welcome

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

Committee Members Present:

Jim Fisler, President (Mesa WD/LAFCO)

Mark Monin, 2nd Vice-President (ETWD)

Doug Davert, Secretary (EOCWD)

Joan Finnegan, Treasurer (MWDOC)

Mike Scheafer, Past President (CMSD)

Committee Members Absent: 1st Vice President Jacobs, 3rd Vice President Matheis

Others Present:

Bill Nelson (CSDA/OCCD)

Arlene Schafer (CSDA)

Larry Dick (MWDOC)

Cathy Green (OCWD)

Al Nederhood (YLWD)

Heather Baez (MWDOC)

Kelly Hubbard (MWDOC)

Stacy Taylor (Mesa Water)

Lisa Ohlund (EOCWD)

II. Minutes

1. The minutes from the August 7, 2018, meeting of the Executive Committee were reviewed. Upon a motion by Secretary Davert and second by Treasurer Finnegan, the minutes were unanimously approved.

III. Public Comments:

1. Yorba Linda Water District Director Al Nederhood reviewed the language of the Cortese-Knox-Hertzberg Act with regards to dues setting for payment of LAFCO dues. Based upon this language, Director Nederhood stated that the current and proposed dues structures are non-compliant with the Act, and indicated that he would pursue this contention with LAFCO and request that a dues structure that is based upon agency revenues be implemented.

IV. Old Business:

1. None.

V. New Business:

1. ISDOC Representation on the Operating Area (OA) Executive Board – WEROC Manager Kelly Hubbard noted that WEROC participates on the OA Executive Board by virtue of ISDOC's seat; WEROC is requesting a direct seat at the OA. She requested to know the ISDOC position regarding retaining ISDOC's seat at the OA if WEROC is granted their own. She noted when she posed this question at the July 8th Meeting the Committee asked that she return with information regarding what representation the non-water/wastewater special districts would have if the seat were relinquished. Ms. Hubbard reviewed a table with the Committee that indicated that eleven (11) of the county's 35 special district would not have any representation at the OA if ISDOC relinquished the seat. After discussion, it was moved by Secretary Davert to send a letter to the County Emergency Management Agency to keep the ISDOC seat at the OA., Past President Shaefer seconded; the motion carried unanimously.

VI. Treasurer's Report – Joan Finnegan

1. After payment of the expenses, the bank balance as of 9/4/18 is \$11,307.49.

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

1. CSDA Member Value – CSDA Board Member Nelson distributed a handout that discussed value-added benefits of CSDA membership.
2. CSDA Commercial Card Services – Umpqua Bank has replaced Bank of the West as the Commercial Card provider for CSDA; they offer a 1% rebate on all spending.
3. CSDA Board Meeting – Board Member Arlene Shafer reported that the Board was advised that the new CSDA magazine has a subscription list of over 26,000, that membership levels are good, that a new coordinator has been hired to assist Chris Palmer with covering the southern part of the state and that the high school video contest will provide several levels of scholarship to the winners.
4. CSDA Conference – The conference will be held September 24-27, 2018 in Indian Wells; it was noted that over 700 registrations have been received to-date.
5. Coalition Group – The CSDA Board is considering whether CSDA should join a national special districts coalition that is being formed.
6. Board Secretary Training – The next workshop for Board Secretary training will be held in Lake Tahoe in October.

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

LAFCO Commissioner Davert noted the following:

1. The next Commission Meeting is scheduled for Wednesday, September 12th at 8:15 a.m. in the Planning Commission Hearing Room at the County Hall of Administration.
2. A public hearing will be held on the Focused Municipal Service Review for the City of San Juan Capistrano Utilities. Commissioner Davert noted that he preferred to have the City of San Juan Capistrano and its community make this decision rather than the LAFCO Commission.
3. An interim Legislative Report will be provided focusing on AB2050 (Caballero) that will authorize the SWRCB to create a Small System Water Authority with powers to absorb, consolidate, improve and operate small noncompliance public water systems and AB2258 (Caballero) which would provide one-time grant funding to LAFCOs to address known service and governance concerns in disadvantaged communities.
4. Policies and Procedures Update – Commissioner Davert reported that a good meeting was held between the special district representatives and LAFCO Chair McGregor, Commissioner Davert and LAFCO staff. LAFCO staff are to revise the policies and guidelines based upon the discussion and agreement that was arrived at during the meeting and then provide the revised documents to the special districts well in advance of the October Commission Meeting.

IX. Association of California Water Agencies (ACWA) – ACWA Region 10 Board Member Cathy Green

1. Region 10 Meeting – The “Removing Barrier to Innovation” workshop will be held on October 18, 2018 from 9:00-2:00 at Lake Mission Viejo. Also noted that the Water Tax was defeated in the waning moments of the legislative session, but will be back in the next one.

X. OCCOG Report – Mike Schaefer

None.

XI. Subcommittee Reports

1. Program
No report.
2. Membership
2nd Vice-President Monin reported that he is working on another new member.
3. Legislative
Stacy Taylor reported that SB 998 (Water Shutoffs) is on the Governor’s desk and it appears that it will be signed.

XII. President and Committee Member Announcements and Comments:

1. None.

XIII. The meeting was adjourned in memory of Phil Anthony at 8:39 a.m.; the next Executive Committee Meeting will be held on Tuesday, October 2, 2018 at 7:30 a.m.



AGENDA

Friday, October 5, 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

Pledge of Allegiance

Announcements & Introductions

- Jose Vergara, El Toro Water District

Reports

- Association of California Water Agencies (ACWA) Report – Cathy Green, Orange County Water District
- Metropolitan Water District of Southern California Report – Linda Ackerman, Metropolitan Water District of Southern California

Program: Potential New Water Supplies – Part 2

- Karl Seckel, Assistant General Manager, Municipal Water District of Orange County

Adjourn

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Next WACO Meeting

Friday, November 2, 7:30 a.m. @ OCWD/MWDOC Joint Boardroom

Next WACO Planning Committee Meeting

Tuesday, October 16, 7:30 a.m. @ MWDOC 101

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



/orangecountywater



@waco_h2o



/orangecountywater



WACO Planning Committee
Tuesday, October 16, 2018
7:30 A.M.

AGENDA

Feedback of October 5 program

1) New Potential Water Supplies, Part 2

- Karl Seckel, MWDOC

Mailing Address

P.O. Box 20895
Fountain Valley, CA 92728

Meeting Location

18700 Ward Street
Fountain Valley, CA 92708

(714) 378-8232
(714) 963-0291 fax

www.mwdoc.com/waco
www.ocwd.com/news-events/events/waco

Officers

Chair

Hon. 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

November 2: Alternatives to a Water Tax, Disadvantaged Communities

- To report
 - Topic: AB 2050, Consolidated legislation, noncompliance, disadvantaged communities, next steps for 2019
 - Speaker: Danielle Coats, Senior Legislative Program Manager, Eastern Municipal Water District (confirmed)
 - Call for nominations – 2019 officers
- To decide:
 - 2nd speaker?
 - Specific questions to be answered
 - What reports?

December 7: Get to Know ACWA's New Executive Director & Their Plans for 2019

- To report:
 - Speaker: Dave Eggerton, New ACWA Executive Director (tentative/calendar hold)
 - Vote on 2019 officers
- To decide
 - Is the speaker ok to confirm?
 - What reports?

January 4: TBD

- To decide:
 - 1st choice topic and speaker(s)
 - 2nd choice topic and speaker(s)
 - What reports?

April 5: The Truth About Bottled Water

- To report
 - Michael Cervin, Author, Our World of Water (confirmed)

Adjourn



Stay Connected with WACO
on Facebook, Twitter and YouTube!

DATES TO REMEMBER
OCTOBER/NOVEMBER 2018

1. Oct 23 – 12:00 p.m. – South County Agencies Meeting (TCWD)
2. Oct 25 – 10:30 a.m. – MWDOC Managers Meeting
3. Oct 25 – 11:30 a.m. – ISDOC Quarterly Luncheon
4. Oct 25 – 5:30 p.m. – SCWC Annual Meeting (Long Beach Hilton)
5. Oct 26 – 8:00 a.m. – TV-6 (Freshley)
6. Oct 26 – DISTRICT OFFICE CLOSED
7. Oct 30 – 8:00 a.m. – Ethics & Sexual Harassment Training (MWDOC)
8. Oct 30 - 4:00 p.m. – RRC Meeting
9. Oct 31 – 8:30 a.m. – SOCWA Finance Committee Meeting
10. Nov 1 – 8:30 a.m. – SOCWA Board Meeting
11. Nov 1 – 2:30 p.m. – SOCWMA Executive Committee Meeting
12. Nov 1 – 6:00 p.m. – MWDOC Elected Officials Forum
13. Nov 2 – 7:30 a.m. – WACO Meeting
14. Nov 2 – 11:30 a.m. – Chair/GM Meeting
15. Nov 3 – Daylight Savings Time Ends (Fall Back One Hour)
16. Nov 5 – 1:30 p.m. – SOCWMA Management Committee Meeting
17. Nov 6 – 7:30 a.m. – ISDOC Executive Committee Meeting
18. Nov 7 – 8:30 a.m. – MWDOC/MET Directors Workshop
19. Nov 8 – 11:30 a.m. – CAG Meeting
20. Nov 9 – DISTRICT OFFICE CLOSED
21. Nov 13 – 7:30 a.m. – Agenda Review
22. Nov 13 – 8:30 a.m. – MWDOC Planning/Operations Meeting
23. Nov 14 – 8:00 a.m. – LAFCO
24. Nov 14 – 8:30 a.m. – MWDOC Admin/Finance Committee Meeting
25. Nov 14 – 11:30 a.m. – OCWA Luncheon

26. Nov 16 – 11:30 a.m. – Chair/GM Meeting
27. Nov 19 – 7:30 a.m. – Regular Engineering/FIC Meeting
28. Nov 19 – 8:30 a.m. – MWDOC Public Affairs Meeting
29. Nov 20 – 7:30 a.m. – Regular Board Meeting
30. Nov 20 – 7:30 a.m. – WACO Planning Committee Meeting
31. Nov 21 – 8:30 a.m. – MWDOC Board Meeting
32. Nov 22 – THANKSGIVING HOLIDAY – DISTRICT OFFICE CLOSED
33. Nov 23 – DISTRICT OFFICE CLOSED
34. Nov 26 – 30 – ACWA Fall Conference (San Diego)
35. Nov 27 – 12:00 p.m. – South County Agencies Meeting (TCWD)
36. Nov 28 – 10:00 a.m. – LF Utility Coordination Meeting
37. Nov 30 – 8:00 a.m. – TV-6 (Goldman)
38. Nov 30 – 11:30 a.m. – Chair/GM Meeting

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.
5. Phase III Recycled Water Update

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.