



DATE: April 27, 2017  
TO: Tammy Rudock, General Manager  
FROM: Jeanette Kalabolas, Water Conservation Administrative Specialist

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**SUBJECT: 2017 FIRST QUARTER WATER CONSERVATION STAFF REPORT**

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**SUBJECT #1:** AWWA Water Loss Audit Technical Assistance Program (TAP) Update

**BACKGROUND:** California Senate Bill 555 (2015) requires urban retail water suppliers submit a validated water loss audit annually to the California Department of Water Resources (DWR) beginning October 2017 based on a DWR state directive to develop rules and guidance on water loss by January 1, 2017. The order builds on SB 1420 (2014), which directs urban water suppliers to complete a water loss audit and include a quantification of that loss in urban water management plans filed

**DISCUSSION:** On March 7, 2017 Brent and I attended a day long wave-3 work session hosted by Santa Clara Valley Water District on changes to AWWA's water loss data software and level 1 validation methodologies. There have been significant changes to the software since its original release in 2005. The agenda covered a wave-2 debriefing, analysis of 2016 UWMP data submitted by Agencies to date, wave-4 preparations (support docs, data matrix grading, scheduling logistics) and next steps required to meet the filing deadline of October 1, 2017. The District is on track to comply with the states requirement. Our wave-4 session is scheduled to take place Wednesday, July 12 at 12:30PM with the californiawaterloss.org team.

**SUBJECT #2:** BAYWORK's Peninsula Workshop on Wheels

**BACKGROUND:** Bay Area Water/Wastewater Workforce Reliability and Development Collaborative (BAYWORK) is a consortium of 25-signatories from local Water/Wastewater utilities who work together to sustain through development and continued education a strong regional workforce to meet the needs of bay area communities. The group focuses on building relationships between industry partners and stakeholders by hosting group activities and workshops in an effort to document important issues and strengthen communications.

**DISCUSSION:** Brent and I had a recent opportunity to attend a sponsored peninsula educational series where we toured South San Francisco's Water Quality Control Plant, San Francisco International Airport's Sewer Treatment Facility, SFPUC Harry Tracy

Water Treatment Plant and the City of Daly City's North San Mateo County Sanitation Districts. The event took place Wednesday, February, 22, 2017 from 8AM–3:30PM, was fully attended, offered vast networking opportunities and included a presentation on the City of San Mateo & Estero Municipal Improvement District's Proposed Biological Nutrient Removal/Membrane Bio-Reactor. Lots of wisdom and knowledge was shared and obtained!

**SUBJECT #3:** Waterfluence Launches San Mateo County Landscape Leaderboard

**BACKGROUND:** MPWD participates in BAWSCA's Large Landscape Audit Program administered by Waterfluence. The District has twenty-nine sites enrolled in this program, which offers surveys that assess landscape watering needs and monthly distribution of landscape water budgets on select CII and HOA accounts.

**DISCUSSION:** Landscaper Leaderboard was designed specifically for Landscape Contractor firms in San Mateo County with two or more sites enrolled in the Waterfluence program. The Board lists the top 42 firms (with two or more sites). Each site in the program gets a percentile score ranging from 1-100 based on how closely actual water use tracks to a budget range over the last twelve months relative to all other sites in the program. If a site's water use stays within the budget range each month, its score remains one-hundred. If water use strays from the budget range, the percentile score falls especially if use exceeds an allotted budget. The leaderboard tracks and ranks contractors based on average site scores. The idea behind the launch is to start a base of available resources within the landscape industry to encourage more efficient irrigation systems. Waterfluence has asked participating Agencies to post the tool to their websites in an effort to make the instrument more viable and I have agreed to post the link. It will be added to our Landscape page under the water conservation menu once our website conversion is completed within the next few months.

**SUBJECT #4:** BAWSCA Annual Demand Projections for SFPUC

**BACKGROUND:** Several years ago SFPUC established through BAWSCA an informal wholesale customer reporting process for Agencies to report up-to-date water demand projections to better assist SFPUC staff in determining rates for the following fiscal year

**DISCUSSION:** Staff has been reporting projected water demands to BAWSCA on a routine basis at the request of SFPUC since 2013. General Manager Rudock asked staff to create a chart for Board review of projections from 2017 forward (see attached). The graph will be updated annually and incorporated into staff's first quarter water conservation report. Projected calculations are determined by referencing BAWSCA's Draft Technical Memo #3 where MPWD's water use efficiency has been evaluated and set in Million Gallons per Day (MGD) through 2040. Projection volumes are established by first converting the given memo demand forecast to CCF. That figure then gets reduced by the states assigned mandate of 20 percent. July–December actuals are then subtracted and the difference is reported as January-June projected use. Attached for reference is 2017's example. BAWSCA memo assignment is 3.25MGD, which converts to 1,586,207CCF. This number was then reduced by 20 percent for a total of 1,268,966CCF. July-December actual use was calculated and figured at 605,090CCF, then subtracted resulting in a January-June projection of 663,876CCF.

**SUBJECT #5:** New BAWSCA Program Opportunities

**BACKGROUND:** Last month BAWSCA invited representatives from two different firms to its quarterly Water Resources Committee (WRC) meeting to present on potential program opportunities for FY 2017- 2018

**DISCUSSION:** Waterlink was the first to present. They are a project of Ecology Action and were funded by the DWR in 2015 through its water-energy drought response grant program. The water/energy savings program provides free, turnkey water and energy upgrades and is designed to accelerate drought response in California by combining both financial incentives and expert technical assistance to those seeking immediate action. The program provides free direct installation of cost-effective indoor conservation measures in homes, replaces lawns and upgrades irrigation systems at public facilities, replaces pre-rinse spray nozzles in restaurants and engages contractors to install ozone systems in skilled nursing facilities and hotels where laundry services are provided. Buoy by Calliope was the second to present on its product, which manages household water needs through the use of a single attachment device and accompanying phone app that tracks where and when water gets used. The device also detects leaks and can even shut off water in the event of an emergency. The paired app features a water budget tool and offers tips to get your water bill under control without sacrificing your lifestyle. Due to meeting time constraints and a lengthy dialogue surrounding Executive Order B-37-16 further discussion was tabled and will be brought back at a future WRC meeting.

**SUBJECT #6:** Governor Brown Lifts Drought Emergency

**BACKGROUND:** In early 2014 Governor Brown signed into effect two drought emergency proclamations followed by four (4) related Executive Orders in 2015 mandating water industry officials take necessary action in preparation for historic dry conditions following consecutive years of minimal precipitation, low snowpack and record high temperatures throughout California.

**DISCUSSION:** On April 7, 2017 following unprecedented water conservation and plentiful winter rain and snow Governor Brown ended the drought state of emergency for most of California, Executive Order B-40-17 directs the State Water Board (SWRCB) to rescind the water supply stress test for urban water suppliers as well any remaining mandatory conservation standards. It also states the SWRCB is to maintain urban water use reporting requirements, and prohibitions on wasteful practices such as watering during or after rainfall, hosing off sidewalks, and irrigating ornamental turf on public street medians until these requirements expire toward the end of 2017. Emergency measures were lifted in all counties except Fresno, Kings, Tulare and Tuolumne, where emergency drinking water projects will continue to help address diminished groundwater supplies. It also asks that state Agencies continue California's campaign "making conservation a way of life" by establishing long-term water conservation goals and improved planning for more frequent and severe droughts expected in the years to come.

**SUBJECT #7:** SWRCB Climate Change Resolution

**BACKGROUND:** In September 2007, the State Water Board adopted Resolution number 2007-0059, which set forth initial actions in response to climate change supporting the implementation of AB 32, a landmark law adopted in 2006. Since then, the State Water Boards has played a collaborative and substantive leadership role in mitigating measures which include water recycling, water conservation and use efficiency, storm water

capture, ecosystem protection, enhancement and restoration, drought response and groundwater recharge.

**DISCUSSION:**

The proposed draft sets directives for State Water Board divisions and offices, and recommendations to Regional Water Quality Control Boards, actions that embedded change be incorporated into existing work given additional responsibilities and functions since 2007, including the addition of the Division of Drinking Water, implementation of the Sustainable Groundwater Management Act, and adoption of statewide drought response and water conservation regulations. With additional responsibilities added, new understanding of climate change impacts and state plans and policies, the Board is in need of an updated resolution to set priorities and direct actions. The updated Climate Change Resolution will establish a comprehensive set of climate change mitigation and adaptation actions, and confirm regular and ongoing progress reports on implementation of those actions. The Resolution covers all of the Water Boards' functional areas, including major regulatory divisions along with financial assistance, data analysis, technical support, administrative and program support and is intended to generate near-term action, manifesting in potential changes to policies, permits, and plans. It also requires State Water Board staff to use plans and tools developed by other state and federal agencies to inform Water Board work products. An updated and revised resolution will give staff clear direction on high priority topics that will support implementation of the state's key climate action priorities as identified in the AB 32 Scoping Plan, Safeguarding California Plan, and Water Action Plan. It will also provide transparency to stakeholders on how the Water Boards will use their programs and authorities to further climate change mitigation and adaption.

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APPROVED: \_\_\_\_\_ DENIED: \_\_\_\_\_ NO ACTION: \_\_\_\_\_ DIRECTION GIVEN: \_\_\_\_\_