



AGENDA ITEM NO. 7.A.

DATE: May 26, 2016
TO: Board of Directors
FROM: Tammy Rudock, General Manager

SUBJECT: DROUGHT AND WATER CONSERVATION PROGRESS REPORT

RECOMMENDATION

Receive progress report on drought and water conservation activities.

BACKGROUND

June 1, 2015 was the start of the SWRCB's (State Water Resources Control Board) measurement period for the 2015/2016 statewide water conservation goals. The MPWD system's conservation goal was 20% when compared to 2013 water consumption.

UPDATED STATEWIDE WATER CONSERVATION REGULATIONS

Recently, the SWRCB adopted a statewide water conservation approach that replaces the percentage reduction-based standard with a localized "stress test" benchmark. Urban water suppliers were mandated to locally develop conservation standards based upon each agency's specific circumstances. The new statewide standards require local water agencies to ensure a 3-year supply assuming three more dry years like the ones recently experienced from 2012 to 2015. Water suppliers that would face shortages under three additional dry years would be required to meet a conservation target equal to the amount of the shortage. For example, if a water supplier's projections include a 10% supply shortfall, their mandatory conservation standard would be 10% (compared with 2013 consumption).

The BAWSCA Water Managers met on May 5th and discussed this issue. Within the San Francisco RWS (Regional Water System), for water agencies like the MPWD that rely 100% on the RWS for its supply, the SFPUC's certification of its water supply would be applicable to them as well. The SFPUC reported that its 3-year look ahead is good for water supply and that likely a 10% voluntary reduction (compared with 2013 consumption) would be the most required during that time.

The regulation further required continued monthly conservation reporting by urban water suppliers. Prohibitions against certain water uses were also extended.

The new water conservation standards take effect in June 2016 and remain in effect until the end of January 2017.

DISCUSSION

The report due May 15th to the SWRCB was timely submitted. April's water consumption was 82,916 units—**the lowest ever in MPWD's history for April since 1963!** The reduction (compared with 2013) measured -31.1%, and the R-GPCD was 65.7. By comparison, the April 2015 PERCENT CHANGE was -23.9% and the R-GPCD was 74.5.

MPWD's cumulative water savings (since tracking started on June 1, 2015) = -24.4% → 4.4% greater than the MPWD system conservation goal of 20%.

2015/2016 MONTH	2015/2016 UNITS	2013 UNITS	PERCENT CHANGE*	CUMULATIVE WATER SAVINGS*	2015/2016 R-GPCD	2013 R-GPCD
June 2015	103,863	150,614	-31.0%	-31.0%	82.3	122.6
July	105,639	156,081	-32.3%	-31.7%	81.1	122.9
August	106,832	155,788	-31.4%	-31.6%	82.0	122.7
September	105,459	145,551	-27.5%	-30.6%	83.6	118.5
October	98,345	122,117	-19.5%	-28.3%	75.5	96.2
November	77,733	106,535	-27.0%	-28.1%	61.6	86.7
December	70,423	94,062	-25.1%	-27.7%	54.0	74.1
January 2016	69,741	84,202	-17.2%	-26.4%	53.5	66.3
February	71,345	86,478	-17.5%	-25.4%	58.5	75.4
March	71,219	106,663	-33.2%	-26.2%	54.6	84.0
April	82,916	120,265	-31.1%	-26.6%	65.7	87.9

*Compared to 2013.

The R-GPCD (Residential-Gallons Per Capita Day) calculations are highlighted above in yellow. The SWRCB performance standard for indoor use is 55GPCD. (Note: For 2015/2016, the SWRCB formula for calculating the R-GPCD included MPWD factors: 85% residential use of total production, and 2014 population projection—26,730—from 2010 Urban Water Management Plan.)

MPWD started tracking water waste complaints in July 2014. All have been investigated and resolved through communications and education.

	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL
2016	2	1	4	2									9
2015	2	0	5	12	6	6	12	5	5	3	1	0	57
2014	-	-	-	-	-	-	3	6	3	4	7	0	23

The SWRCB Media Release dated May 3, 2016, and statewide Emergency Water Conservation Regulations Update dated May 3, 2016, are attached for information.

HISTORY

The following Calendar Year 2014 and 2015 tables reflect MPWD's water system purchases in units (1 unit = 748 gallons), percentage change comparison, and cumulative average savings.

CALENDAR YEAR 2015 - JANUARY THROUGH MAY

2015 MONTH	2015 UNITS	2014 UNITS	2013 UNITS	PERCENT CHANGE*	CUMULATIVE WATER SAVINGS*	2015 R-GPCD	2014 R-GPCD	2013 R-GPCD
January	82,360	102,910	84,202	-2.2%	-2.2% / -15.1%**	64.9	81.1	66.3
February	79,782	73,221	86,478	-7.7%	-5.0% / -14.5%	69.6	63.9	75.4
March	102,964	89,152	106,663	-3.5%	-4.5% / -13.7%	81.1	70.2	84.0
April	91,491	96,019	120,265	-23.9%	-9.3% / -14.4%	74.5	78.2	87.9
May	97,806	126,934	155,736	-37.2%	-14.9% / -15.8%	77.1	100.0	122.7

*Compared to 2013. **Cumulative total since February 2014.

CALENDAR YEAR 2014 - FEBRUARY THROUGH DECEMBER

2014 MONTH	2014 UNITS	2013 UNITS	PERCENT CHANGE*	CUMULATIVE WATER SAVINGS*	2014 R-GPCD	2013 R-GPCD
February	73,221	86,478	-15.3%	-15.3%	64	75
March	89,152	106,663	-16.4%	-15.9%	70	84

April	96,019	120,265	-20.2%	-17.3%	78	98
May	126,934	155,736	-18.5%	-17.6%	100	123
June	139,729	150,614	-7.2%	-15.5%	114	123
July	134,669	156,081	-13.7%	-15.2%	106	123
August	128,924	155,788	-17.2%	-15.5%	102	123
September	118,284	145,551	-18.7%	-15.9%	96	119
October	109,652	122,117	-10.2%	-15.3%	92	96
November	86,670	106,535	-18.6%	-15.6%	71	87
December	72,835	94,062	-22.6%	-16.2%	57	74

**Compared to 2013.*

The R-GPCD (Residential-Gallons Per Capita Day) calculations are highlighted above in yellow. The SWRCB performance standard for indoor use is 55GPCD. (Note: For Calendar Years 2014 and 2015 tracking, the SWRCB formula for calculating the R-GPCD included MPWD factors: 85% residential use of total production, and population from 2010 Urban Water Management Plan—26,030.)

Attachments: SWRCB Media Release dated May 3, 2016
SWRCB statewide Emergency Conservation Regulation Update dated May 3, 2016