

- **Board of Directors**
Water Planning and Stewardship Committee

January 9, 2007 Board Meeting

9-3

Subject

Water Surplus and Drought Management Plan report on water supply and demand (as of Dec. 15, 2006)

Description

Currently, the projected Colorado River Aqueduct and State Water Project base supplies total approximately 2.17 million acre-feet. When combined with the approximately 1.2 MAF of available Water Surplus and Drought Management supplies and additional WSDM management actions in calendar year 2007, The Metropolitan Water District of Southern California should be able to meet the current range of estimated firm demands. At the beginning of each year, Metropolitan faces a wide range of possible supply and demand conditions. The WSDM Plan provides a policy framework and strategy to manage Metropolitan's resources to meet that range of possible hydrologic conditions for the upcoming year. Changes in conditions after the posting of this report will be provided at the Water Planning and Stewardship Committee meeting.

This letter is the initial WSDM Plan report on water supply and demand for calendar year 2007. These reports will apprise the Board of developing conditions that may impact water supply reliability and any potential WSDM actions that may be required for the year. From January through May, imported supplies from the State Water Project, Colorado River Aqueduct and Los Angeles Aqueduct, as well as demands, are highly variable due to weather conditions. During the early months of January through March, staff will update the Board monthly on changing conditions affecting both projected supplies and demands. When the precipitation season ends in April-May and water conditions are more certain, a final WSDM report will be given to the Board along with a summary of required WSDM actions for the year.

Water Supply*Colorado River Aqueduct*

As of the deadline for finalizing this letter, Metropolitan had not received an approved water order for Colorado River supplies for CY 2007 from the U.S. Bureau of Reclamation. However, staff estimates that the initial approved water order will be approximately 667,000 acre-feet of supplies. This projection is conservative, in that it assumes high volume of use by the agricultural priorities. Metropolitan's projection includes our Basic Apportionment (550,000 AF), the Imperial Irrigation District conservation program (85,000 AF), the Imperial Irrigation District/San Diego County Water Authority Transfer agreement (50,000 AF), and the Palo Verde Irrigation District Land Management Program (62,000 AF). Additionally, revisions to deliveries to California's agricultural districts along the Colorado River could result in an additional 300,000 AF of additional supplies for Metropolitan based on the historical usage of the districts. Thus, total projected CY 2007 Colorado River supplies at this time are approximately 667,000 AF.

State Water Project

On November 30, 2006, the California Department of Water Resources announced an initial 2007 allocation of SWP Table A supplies of 60 percent for long-term SWP contractors. This is the highest initial allocation since 1999 and compares with an initial allocation of 55 percent in 2006. At this point of the year, the allocation is conservative with a likelihood that the final allocation will be greater. DWR formally reviews hydrologic and storage conditions on a monthly basis and updates the SWP allocation, as appropriate, throughout the year. In addition to the allocated Table A supplies, Metropolitan anticipates a minimum of 230,000 AF of other SWP supplies from extended carryover storage stored in CY 2006; supplies resulting from SWP and Metropolitan

outages in CY 2006; Metropolitan's exchange agreement with the Desert Water Agency and Coachella Valley Water District; and additional agreements with the San Bernardino Valley Municipal Water District and the city of Port Hueneme. Total CY 2007 supplies, at this point, are projected at approximately 1.50 MAF.

WSDM Supplies and Management Actions

Beyond these base CRA and SWP supplies, Metropolitan has approximately 2.5 MAF of supplies in WSDM resource reserves. These supplies include both surface storage and groundwater storage agreements. Because of operational constraints, the entire balance may not be available in any one year. Staff estimates that the total available WSDM supplies that could be accessed is approximately 1.2 MAF. A summary of the available WSDM supplies and storage/take capabilities for CY 2007 is presented below and a detailed listing is included as [Attachment 1](#).

WSDM Supplies for CY 2007				
Program	Projected 1/1/07 Storage Levels	Capacity Available for Storage	CY 2007 Take Capacity	CY 2007 Put Capacity
CRA Storage *	360,500	575,000	185,000	349,000
SWP Storage **	1,008,300	352,700	744,500	556,200
In-Region Storage ***	1,144,700	567,600	282,700	191,650
Total	2,513,500	1,495,300	1,212,200	1,096,850

* CRA storage does not include 70,000 acre-feet of storage in the Hayfield Program

** SWP storage includes surface, flex and conjunctive use storage. Does not include SWP southern reservoir storage and extended carryover

*** In-Region storage includes surface, cyclic storage and conjunctive use storage

Also available for CY 2007 under the WSDM Plan are WSDM water management actions that include increased voluntary short-term conservation and delivery reductions of non-firm demands.

Demand

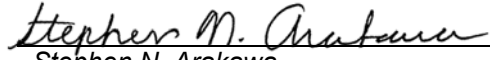
Projected total demands on Metropolitan for CY 2007 range from a low of 1.8 MAF under wet/cool conditions to a high of 2.7 MAF under hot/dry conditions. These projections include a projected range for firm demands of 1.6 MAF to 2.2 MAF. Under normal hydrologic conditions, demands are projected to be 2.2 MAF. As a point of reference, Metropolitan's demand for CY 2006 was approximately 2.2 MAF.

Policy

By Minute Item 43514, dated April 13, 1999, the Board adopted the Water Surplus and Drought Management Plan.

Fiscal Impact

None


Stephen N. Arakawa
Manager, Water Resource Management

12/18/2006
Date


Jeffrey Kightlinger
General Manager

12/21/2006
Date

Attachment 1 – WSDM Supplies for CY 2007

BLA #4870

WSDM Supplies for CY 2007				
Program	Projected 1/1/07 Storage Levels	Capacity Available for Storage	CY 2007 Take Capacity	CY 2007 Put Capacity
<i>CRA Storage</i>				
Advance Delivery Account (DWCV)	224,000	376,000	170,000	150,000
Lake Mead Storage Demonstration Program	47,500	199,000	0	199,000
Central Arizona Underground Storage Demonstration Project	89,000	0	15,000	0
<i>Subtotal</i>	<i>360,500</i>	<i>575,000</i>	<i>185,000</i>	<i>349,000</i>
<i>SWP Storage</i>				
Sac. Valley Transfers Stored in Shasta	47,000	0	47,000	0
EWA Wet/Dry Exchange	50,000	100,000	50,000	100,000
Arvin Edison Storage Program	212,500	37,500	66,500	86,000
Semitropic Storage Program	346,000	4,000	31,500	35,200
Kern Delta Storage Program	38,800	211,200	38,800	50,000
SBVMWD Coord. Operating Agmt.	50,000	0	20,500	0
Mojave Storage Program	45,000	0	30,000	0
Castaic Lake (Flex Storage)	154,000	0	154,000	0
Lake Perris (Flex Storage)	65,000	0	65,000	0
MWD '06 Carryover *	0	0	230,000	200,000
DWCV '06 Carryover *	0	0	0	85,000
<i>Subtotal</i>	<i>1,008,300</i>	<i>352,700</i>	<i>733,300</i>	<i>556,200</i>
<i>In-Region Storage</i>				
Diamond Valley Lake	740,000	80,000	200,000	70,000
Lake Mathews & Lake Skinner	173,000	53,000	60,000	44,000
Cyclic - USG	48,300	51,700	Up to stored volume	Varies
Cyclic - PM (Three Valleys)	12,800	27,200	Up to stored volume	Varies
Cyclic - IEUA (Chino Basin)	1,700	98,300	Up to stored volume	0
Conj. Use - IEUA (Chino Basin)	48,000	52,000	0	25,000
Conj. Use - Long Beach (Cent. Basin)	13,000	0	4,300	0
Conj. Use - FM (Live Oak Basin)	500	2,500	0	750
Conj. Use - Calleguas (N. Las Posas)	51,000	159,000	16,700	33,000
Conj. Use - MWDOC	28,000	32,000	0	15,000
Conj. Use - Three Valleys	3,400	0	0	0
Conj. Use - Foothill	2,400	6,600	0	2,500
Conj. Use - Compton	600	1,700	0	500
Conj. Use - Long Beach (Lakewood)	0	3,600	0	900
Conj. Use - Pasadena	22,000	0	0	0
<i>Subtotal</i>	<i>1,144,700</i>	<i>567,600</i>	<i>281,000</i>	<i>191,650</i>
Total	2,513,500	1,495,300	1,199,300	1,096,850

* CY'06 Carryover amounts are included in SWP base supplies*