

WORKSHOP MEETING OF THE  
BOARD OF DIRECTORS WITH MET DIRECTORS  
MUNICIPAL WATER DISTRICT OF ORANGE COUNTY  
18700 Ward Street, Board Room, Fountain Valley, California  
February 6, 2019, 8:30 a.m.

**AGENDA**

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**PLEDGE OF ALLEGIANCE**

**ROLL CALL**

**PUBLIC PARTICIPATION/COMMENTS**

At this time members of the public will be given an opportunity to address the Board concerning items within the subject matter jurisdiction of the Board. Members of the public may also address the Board about a particular Agenda item at the time it is considered by the Board and before action is taken.

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

**ITEMS RECEIVED TOO LATE TO BE AGENDIZED**

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

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

Pursuant to Government Code Section 54957.5, non-exempt public records that relate to open session agenda items and are distributed to a majority of the Board less than seventy-two (72) hours prior to the meeting will be available for public inspection in the lobby of the District's business office located at 18700 Ward Street, Fountain Valley, California 92708, during regular business hours. When practical, these public records will also be made available on the District's Internet Web site, accessible at <http://www.mwdoc.com>.

**(NEXT RESOLUTION NO. 2080)**

**PRESENTATION/DISCUSSION/INFORMATION ITEMS**

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

*Recommendation: Receive input and discuss the information.*

**2. WATER SUPPLY CONDITIONS UPDATE**

*Recommendation: Review and discuss the information presented.*

**3. PRESENTATION REGARDING STATE WATER PROJECT (SWP) COOPERATIVE OPERATING AGREEMENTS BY METROPOLITAN STAFF**

*Recommendation: Review and discuss the information presented.*

**4. CALIFORNIA WATERFIX ACTIVITIES UPDATE**

*Recommendation: Review and discuss the information presented.*

**5. MET ITEMS CRITICAL TO ORANGE COUNTY** (The following items are for informational purposes only – a write up on each item is included in the packet. Discussion is not necessary unless requested by a Director)

- a. MET's Water Supply Conditions
- b. MET's Finance and Rate Issues
- c. Colorado River Issues
- d. Bay Delta/State Water Project Issues
- e. MET's Ocean Desalination Policy and Potential Participation by MET in the Doheny Desalination Project and in the Huntington Beach Ocean Desalination Project (Poseidon Desalination Project)
- f. Orange County Reliability Projects
- g. East Orange County Feeder No. 2
- h. South County Projects

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

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

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

*Recommendation: Review and discuss the information presented.*

**ADJOURNMENT**

Note: Accommodations for the Disabled. Any person may make a request for a disability-related modification or accommodation needed for that person to be able to participate in the public meeting by telephoning Maribeth Goldsby, District Secretary, at (714) 963-3058, or writing to Municipal Water District of Orange County at P.O. Box 20895, Fountain Valley, CA 92728. Requests must specify the nature of the disability and the type of accommodation requested. A telephone number or other contact information should be included so that District staff may discuss appropriate arrangements. Persons requesting a disability-related accommodations should make the request with adequate time before the meeting for the District to provide the requested accommodations.



INFORMATION ITEM

February 6, 2019

TO: Board of Directors

FROM: Robert Hunter, General Manager

Staff Contact: Kevin Hostert

SUBJECT: WATER SUPPLY CONDITION UPDATE

STAFF RECOMMENDATION

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Staff recommends the Board of Directors to review and discuss this information.

REPORT

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The 2018-19 Water Year officially began October 1, 2018. Thus far, the Northern California accumulated precipitation (8-Station Index) is reporting **26.1 inches or 99% of normal** as of January 29. In the month of January 2019, accumulated precipitation reached 13.2 inches, which is **4.2 inches above normal** compared to the historical average (As of January 28<sup>th</sup>). The Northern Sierra Snow Water Equivalent was at 18.2 inches on January 28<sup>th</sup>, which was **108% of normal** for that day.

As of January 28<sup>th</sup> Lake Oroville storage is at 39% of total capacity and 60% of normal. As of January 28<sup>th</sup> San Luis Reservoir has a current volume of 85% of the reservoirs total capacity and is 109% of normal.

The Department of Water Resources (DWR) in January increased the State Water Project (SWP) "Table A" allocation to 15%. This allocation provides Metropolitan with approximately 286,725 AF in SWP deliveries this water year. DWR's approval considered several factors including existing storage in SWP conservation reservoirs, SWP operational regulatory constraints, and the 2019 contractor demands.

Budgeted (Y/N): N	Budgeted amount: N/A	Core <u>X</u>	Choice <u>  </u>
Action item amount:	Line item:		
Fiscal Impact (explain if unbudgeted):			

On the Colorado River system, snowpack is measured across four states in the Upper Colorado River Basin. As of January 28, 2019, snowpack measured at 105% 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 57% chance of a shortage on the Colorado River in 2020, increasing to 68% in 2021.

**Attachment: Water Supply Conditions Presentation**



## Water Supply Conditions

Kevin Hostert, Water Resources Analyst  
Municipal Water District of Orange County

February 6<sup>th</sup> 2019



## Orange County Weather and Water Supply Conditions

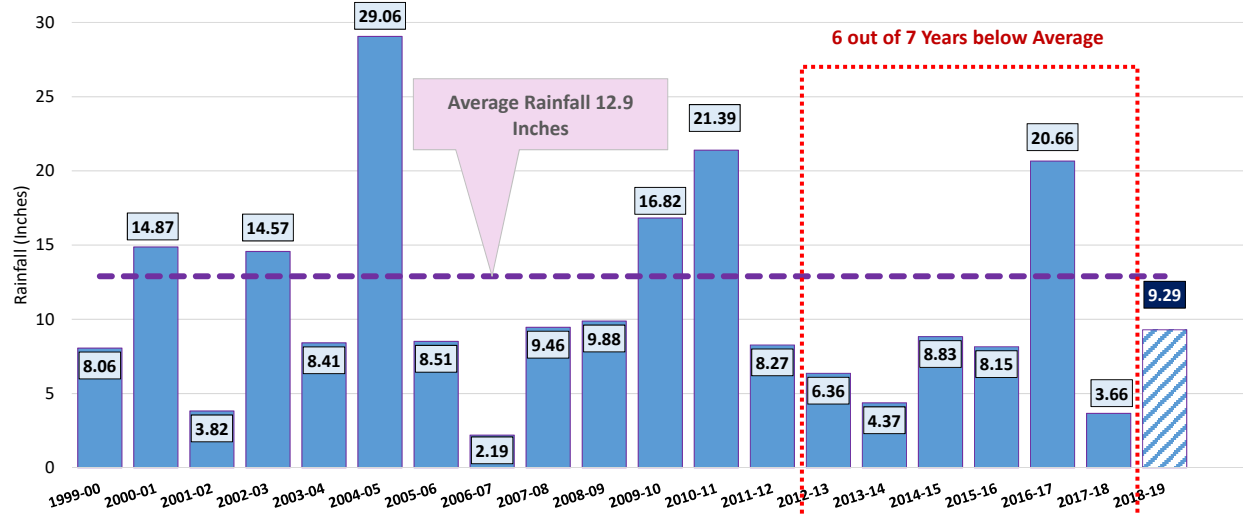
Insight to local weather conditions that affect Orange County's water supply and water demand



# Santa Ana Precipitation

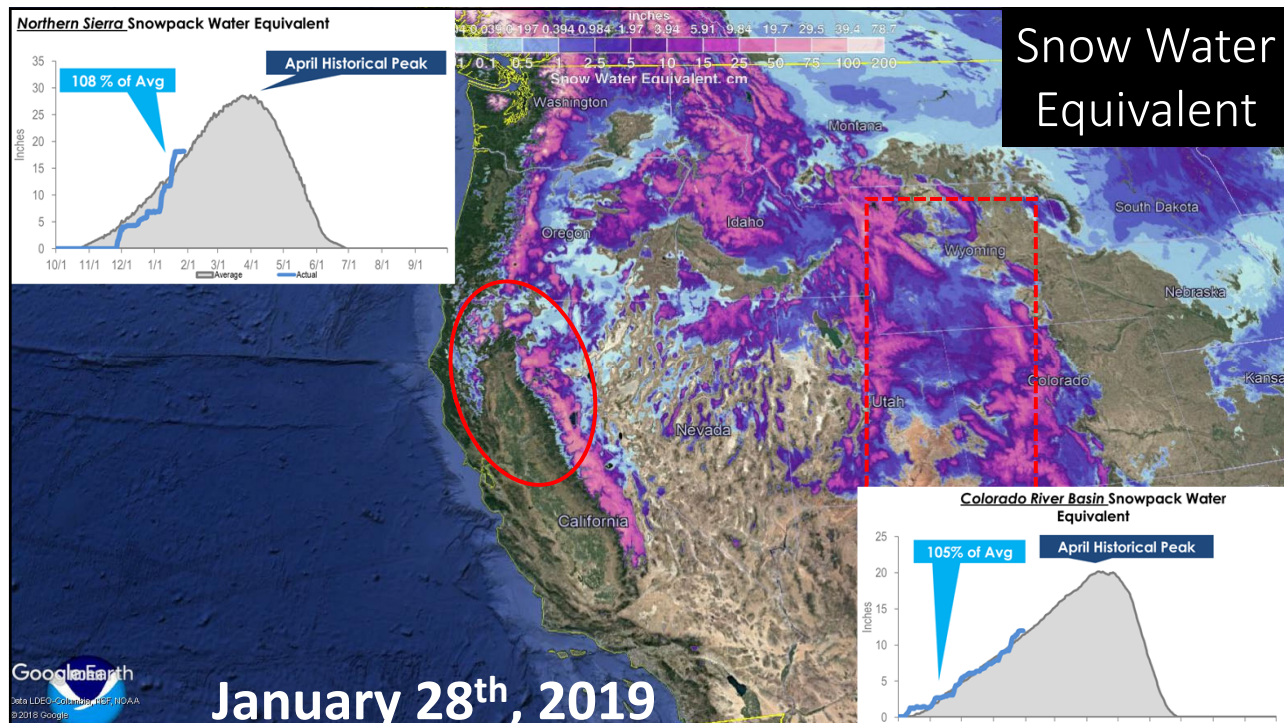
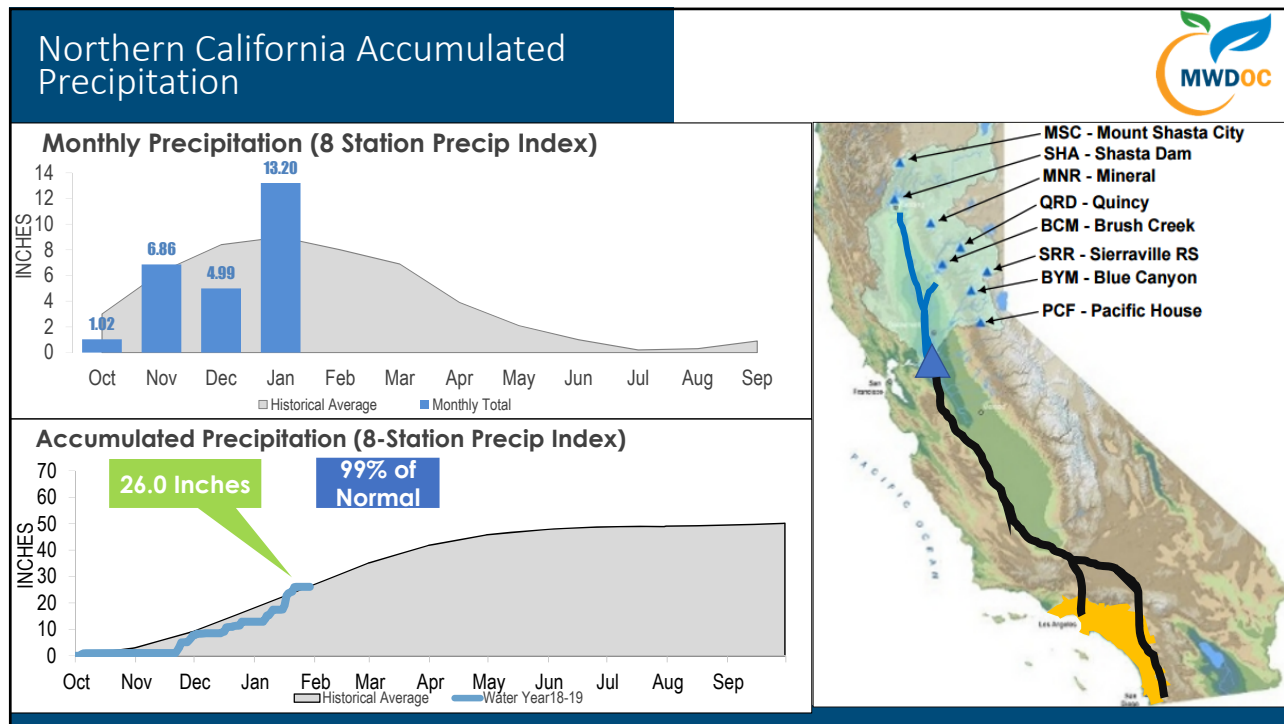


**Santa Ana Annual Precipitation Statistics (Fiscal Year July-June)**

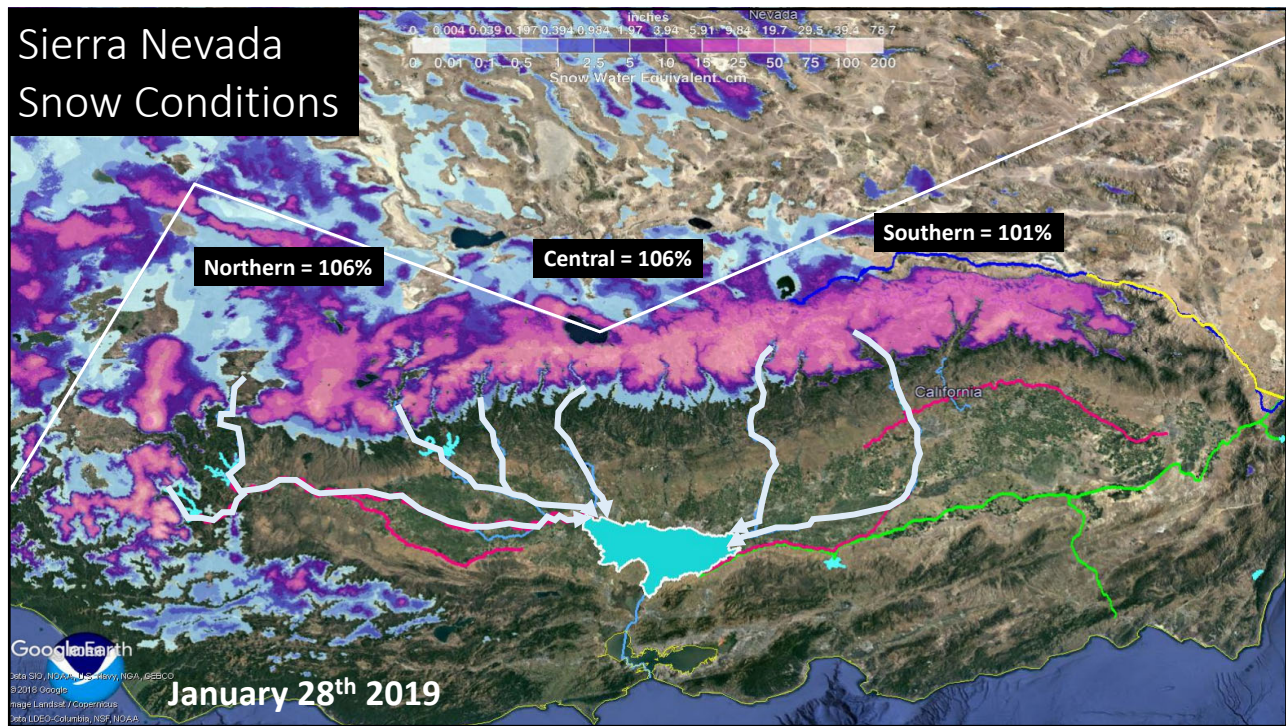


## Regional Weather and Water Supply Conditions

Insight to regional weather conditions that affect California's water supply

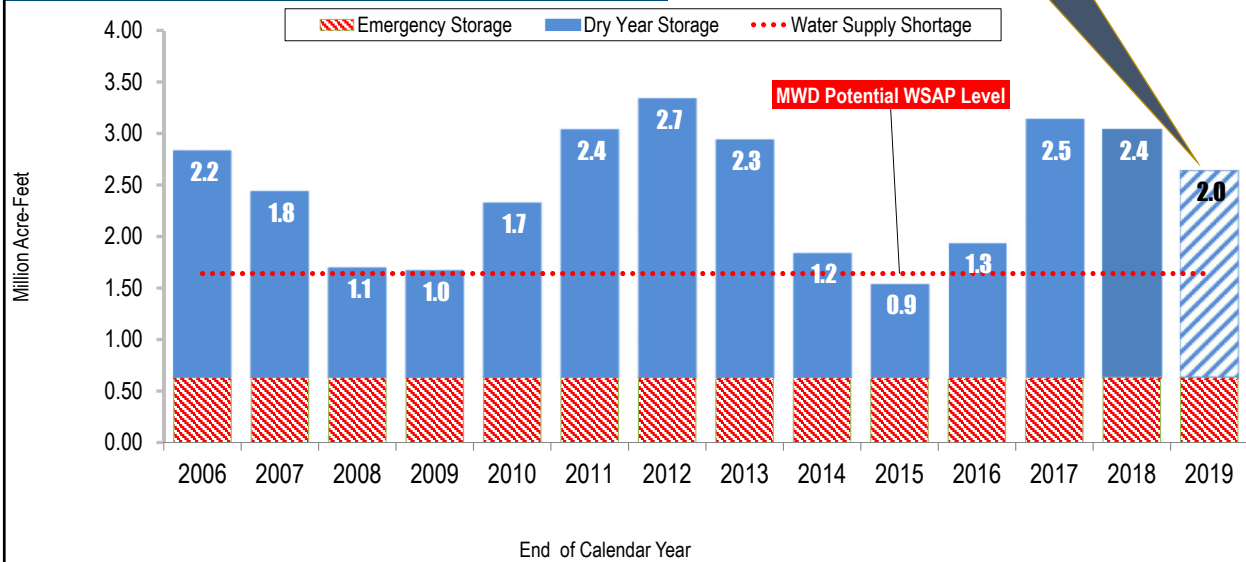




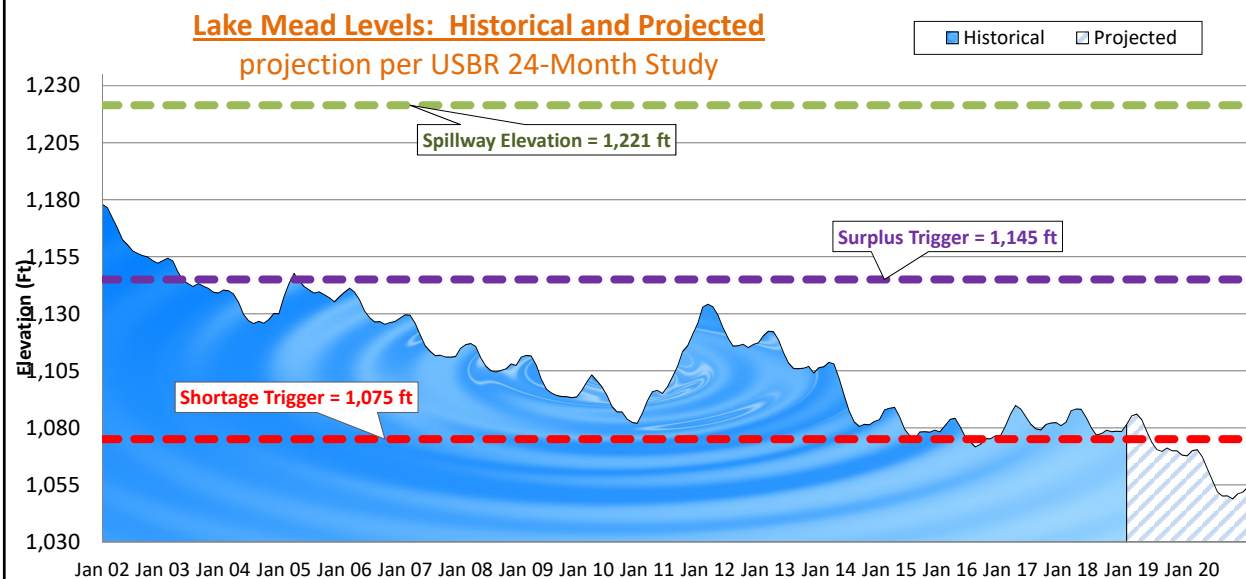


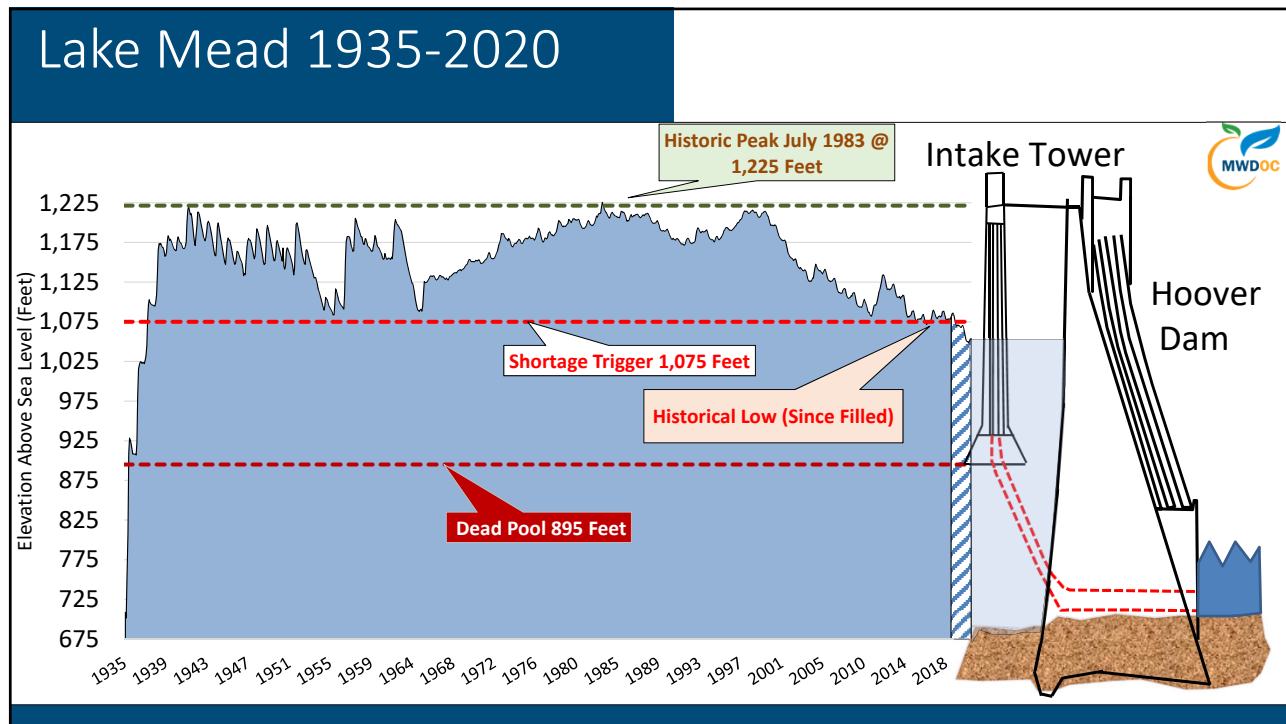


## MWD 2019 Estimated Water Storage



## Lake Mead Outlook







**DISCUSSION ITEM**

February 6, 2019

**TO: Board of Directors**

**FROM: Robert Hunter,  
General Manager**

Staff Contact: Harvey De La Torre  
Melissa Baum-Haley

**SUBJECT: PRESENTATION REGARDING STATE WATER PROJECT (SWP)  
COOPERATIVE AGREEMENTS BY METROPOLITAN STAFF**

**STAFF RECOMMENDATION**

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Staff recommends the Board of Directors review and discuss the information presented.

**COMMITTEE RECOMMENDATION**

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Committee recommends (To be determined at Committee Meeting)

**REPORT**

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On December 12, 2018, the California Department of Water Resources (DWR) and the U.S. Bureau of Reclamation (Reclamation) signed an addendum to the 1986 Agreement between the United States of America and DWR for the Coordinated Operation of the Central Valley Project and the State Water Project. The COA is the mechanism by which DWR and Reclamation allocate water between the Central Valley Project (CVP) and the State Water Project (SWP) while meeting the regulatory requirements.

Within the COA modified agreement, more detailed sharing of responsibility is provided for meeting Sacramento Valley in-basin use as well as applicable of export capacity when exports are constrained.

<b>Budgeted (Y/N): N/A</b>	Budgeted amount: None	Core <input checked="" type="checkbox"/>	Choice <input type="checkbox"/>
<b>Action item amount: N/A</b>	Line item:		
<b>Fiscal Impact (explain if unbudgeted):</b>			



## Coordinated Operations Agreement In-Basin Use Obligation Sharing

- 1986 Agreement
  - Sharing percentage 75% CVP | 25% SWP
- Modified Agreement
  - Sharing based on water year type
  - Wet & Above Normal: 80% CVP | 20% SWP
  - Below Normal: 75% CVP | 25% SWP
  - Dry: 65% CVP | 35% SWP
  - Critical: 60% CVP | 40% SWP

***In-Basin Use:*** Legal uses of water in the Sacramento Valley  
including water required to meet regulatory requirements

WP&S Committee

Item 6a - Slide 12

January 7, 2019

Additionally, on December 12, 2018, DWR and California Department of Fish and Wildlife Directors Nemeth and Bonham respectively, presented progress on the voluntary agreements to the State Water Resources Control Board (State Board) as an alternative to the State Board's staff proposal requiring unimpaired river flows under the Bay Delta Water Quality Control Plan.

Key outcomes of the voluntary settlement agreements include:

- Integration of flow and non-flow measures
- Includes upstream non-SWP/CVP water users
- System-wide governance & science-based decision making
- Backed by significant and reliable funding mechanisms
- Intend to meet State & Federal water quality requirements

MWDOC has invited Metropolitan staff to provide a presentation to explain the key outcomes of the COA and voluntary settlement agreement, as well as impacts to the SWP and California WaterFix.



**DISCUSSION ITEM**

February 6, 2019

**TO: Board of Directors**

**FROM: Robert Hunter,  
General Manager**

Staff Contact: Harvey De La Torre  
Melissa Baum-Haley

**SUBJECT: CALIFORNIA WATERFIX ACTIVITIES UPDATE**

**STAFF RECOMMENDATION**

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Staff recommends the Board of Directors review and discuss the information presented.

**COMMITTEE RECOMMENDATION**

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Committee recommends (To be determined at Committee Meeting)

**REPORT**

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**Joint Powers Authorities**

The Delta Conveyance Design and Construction Authority (DCA) and Delta Conveyance Finance Authority meetings were held on January 17, 2019. At the DCA meeting, the Interim Executive Director, Jill Duerig, provided an update on activities. The Engineering Design Manager, Jacobs, and the geotechnical consultant, Fugro, began developing a plan for 2019 and identified all the boring and cone penetrometer testing locations. Similarly, the real property consultants began engaging in the formation of policies, processes, and procedures that meet regulatory requirements while streamlined where possible.

The following 11 out of the 22 agencies located south of the Delta are members of the Joint Power Authorities:

- Alameda County Water District
- Alameda County Flood Control & Water Conservation District Zone 7

<b>Budgeted (Y/N): N/A</b>	Budgeted amount: None	Core <input checked="" type="checkbox"/> _X_	Choice <input type="checkbox"/> __
<b>Action item amount: N/A</b>		Line item:	
<b>Fiscal Impact (explain if unbudgeted):</b>			

- Antelope Valley/East Kern Water District
- Coachella Valley Water District
- Desert Water Agency
- Metropolitan Water District
- Mojave Water Agency
- San Bernardino Valley Municipal Water District
- San Geronimo Pass Water Agency
- Santa Clarita Valley Water Agency
- Santa Clara Valley Water District

On January 31, 2019, the DCA held a special meeting to authorize the Board to execute an agreement with Management Partners for professional services of long-term Executive Director.

The next meeting of the DCA and Finance Authority Boards of Directors will be held on Thursday, February 21, 2019.

### **Coordinated Operation Agreement**

On January 16, a coalition of environmental, fishing, and Native American groups led by the Pacific Coast Federation of Fishermen's Association filed suit against the California Department of Water Resources (DWR). The suit, filed in Sacramento Superior Court, challenges DWR's attempt to revamp its 30-year-old Coordinated Operations Agreement (COA) with the federal Bureau of Reclamation to export more water from the Delta.

Opponents argue that DWR's revision of the COA would increase Delta exports when the Delta has the least water available for fish. The lawsuit additionally charges that DWR's COA addendum would violate the Delta Reform Act and the Public Trust Doctrine.

DWR stated no new environmental review as was needed for the COA, issuing an exemption from the California Environmental Quality Act on the grounds that COA was an "ongoing operation" of the State Water Project.

### **Delta Stewardship Council (DSC)**

The DWR preparing a resubmittal of certification to the DSC, expected during 2019. It will be based on substantial evidence needed to amend the appeal process. key issues include:

1. Agencies Reducing reliance on the Delta – the DSC is looking for information from urban water management plans (UWMPs) that quantify a reduction in the reliance on the Delta, whereby, select UWMPs completed in 2015 may need to be amended.
2. Export/Inflow ratio – DWR will need to show substantial evidence to support the conclusion that California WaterFix can be operated to meet the required export/inflow ratio measurements. Updated modeling will need to include more information on the export side of the ratio.



3. Municipal & Industrial chloride standard – meet water quality specified standards within the Delta. Of note, during deep drought periods there can be temporary urgency change conditions. The State Board has the authority to make decisions on whether such a change petition is needed.
4. Utilize the best available science for sea level rise and salinity impact – DWR is modeling out through 2100 as well as incorporating the projected 55-inch sea level rise into the intakes design. This modeling will also need to include the impact of salinity variation.
5. Local land use – more substantial evidence will need to show that socio-economic and community character impacts are being considered.

### **WaterFix Regulatory and Permit Status**

Several regulatory and permitting actions still need to be completed before construction can begin. Many of these outstanding permits will be completed following or as part of the design process lead by the DCA. The attached table provides a brief status update of those which are complete and those which remain on-going/outstanding.

### **Additional Information**













Additional information on the Bay-Delta Issues can be found in *Issue Brief D - Bay Delta/State Water Project Issues* of the Discussion Item regarding Metropolitan Water District items critical to Orange County.











**Attachments: (1) California WaterFix Regulatory Schedule and Status Table**

## **California WaterFix Regulatory and Permit Status Table**

Several regulatory and permitting actions still need to be completed before construction can begin. Many of these outstanding permits will be completed following or as part of the design process lead by the DCA. The following table provides a brief status update of those which are complete and those which remain on-going/outstanding.

*Version January 31, 2019*

REGULATORY PROCESSES AND PERMITS		STATUS
1	<b>CALIFORNIA ENVIRONMENTAL QUALITY ACT / NATIONAL ENVIRONMENTAL POLICY ACT (CEQA/NEPA)</b>	
	<a href="#">Final Environmental Impact Report/Environmental Impact Statement (EIR/EIS)</a> released on December 22, 2016	
	▶ <a href="#">California Department of Water Resources (DWR) certified Final EIR in compliance with CEQA</a>	
	▶ DWR approved California Waterfix, adopted "CEQA Findings," an MMP and a Statement of Overriding Considerations as part of project approval	
	▶ DWR issued a Notice of Determination on July 21, 2017	
	DWR will Prepare Draft Supplemental EIR	
	Public review and comment on Draft Supplemental EIR	
	DWR will Prepare Final Supplemental EIR	
2	<b>ENDANGERED SPECIES ACT (ESA) SECTION 7 CONSULTATION</b>	
	A <a href="#">Biological Assessment</a> submitted to the U.S. Fish and Wildlife Service (USFWS) and National Marine Fisheries Service (NMFS) and engaged in formal consultation	
	USFWS and NMFS issued final <a href="#">Biological Opinions</a> in June 2017	
3	<b>NATIONAL HISTORIC PRESERVATION ACT (NHPA) SECTION 106 COMPLIANCE</b>	
	A Final Programmatic Agreement (PA) was completed and signed by DWR, the U.S. Army Corps of Engineers (USACE) and State Historic Preservation Officer (SHPO) on March 21, 2017	
	DWR and USACE completed the Draft Programmatic Historic Properties Treatment Plan and forwarded to SHPO and interested parties on July 26, 2017	

	Continued implementation of PA commitments	
4	<b>CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE (CDFW) 2081(B) PERMIT</b>	
	An <a href="#">incidental take permit application</a> was submitted to CDFW on October 5, 2016	
	<a href="#">CDFW issued permit</a> on July 26, 2017	
	CDFW issued a <a href="#">clarification memorandum</a> for the California Endangered Species Act ITP Condition of Approval on October 18, 2017	
5	<b>SECTION 401 OF THE CLEAN WATER ACT – WATER QUALITY CERTIFICATION</b>	
	An <a href="#">application for Water Quality Certification</a> was submitted to the State Water Resources Control Board (SWRCB) on September 24, 2015	
	An <a href="#">updated application for Water Quality Certification</a> was submitted to the SWRCB on November 15, 2018	
	A subsequent ruling regarding briefing and other procedural matters will be forthcoming.	
6	<b>CDFW LAKE AND STREAMBED ALTERATION AGREEMENT, SECTION 1602</b>	
	DWR is preparing a permit application for submittal to CDFW	
	CDFW will determine whether to issue permit	
7	<b>U.S. ARMY CORPS OF ENGINEERS (USACE) SECTION 404 PERMIT</b>	
	A <a href="#">Section 404 Permit application</a> was submitted to USACE on September 9, 2015	
	A Compensatory Mitigation Strategy was completed Fall 2016	
	An alternatives analysis will be finalized	
	USACE will determine whether to issue permit	
8	<b>SWRCB CHANGE PETITION</b>	
	A presentation of rebuttal for Part 1 cases-in-chief concluded on July 11, 2017	
	The presentation of sur-rebuttal testimony, and subsequent cross-examination, by parties participating in Part 2 of the California WaterFix water right change petition hearing concluded on October 1, 2018.	



A subsequent ruling regarding briefing and other procedural matters will be forthcoming.



9

#### DELTA STEWARDSHIP COUNCIL (DSC)



DWR filed a certification of consistency with the Delta Plan to the DSC on July 27, 2018. Nine appeals of that certification were filed.



On December 7, DWR withdrew its certification of consistency. As a result, the DSC dismissed the appeals.



The DWR preparing a resubmittal of certification to the DSC

**Expected**  
2019

10

#### USACE AUTHORIZATION UNDER SECTION 14 OF THE RIVERS AND HARBORS ACT



Prior to use or alteration of a Civil Works project, DWR will prepare and submit a permit application to USACE (consistent with USACE requirements at 33 USC 408 (Section 408))





**DISCUSSION ITEM**  
February 6, 2019

**TO: Board of Directors**

**FROM: Robert Hunter,  
General Manager**

Staff Contact: Karl Seckel  
Harvey De La Torre  
Melissa Baum-Haley

**SUBJECT: METROPOLITAN WATER DISTRICT (MET) ITEMS CRITICAL TO  
ORANGE COUNTY**

**STAFF RECOMMENDATION**

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Staff recommends the Board of Directors to review and discuss this information.

**DETAILED REPORT**

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This report provides a brief update on the current status of the following key MET issues that may affect Orange County:

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

<b>Budgeted (Y/N): NA</b>	Budgeted amount: None	Core <input checked="" type="checkbox"/>	Choice <input type="checkbox"/>
<b>Action item amount: N/A</b>		Line item:	
<b>Fiscal Impact (explain if unbudgeted):</b>			

**ISSUE BRIEF # A****SUBJECT: MET's Water Supply Conditions****RECENT ACTIVITY**

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The 2018-19 Water Year officially began October 1, 2018. Thus far, the Northern California accumulated precipitation (8-Station Index) is reporting **26.1 inches or 99% of normal** as of January 29. In the month of January 2019, accumulated precipitation reached 13.2 inches, which is **4.2 inches above normal** compared to the historical average (As of January 28<sup>th</sup>). The Northern Sierra Snow Water Equivalent was at 18.2 inches on January 28<sup>th</sup>, which was **108% of normal** for that day.

As of January 28<sup>th</sup> Lake Oroville storage is at 39% of total capacity and 60% of normal. As of January 28<sup>th</sup> San Luis Reservoir has a current volume of 85% of the reservoirs total capacity and is 109% of normal.

The Department of Water Resources (DWR) in January increased the State Water Project (SWP) "Table A" allocation to 15%. This allocation provides Metropolitan with approximately 286,725 AF in SWP deliveries this water year. DWR's approval considered several factors including existing storage in SWP conservation reservoirs, SWP operational regulatory constraints, and the 2019 contractor demands.

On the Colorado River system, snowpack is measured across four states in the Upper Colorado River Basin. As of January 28, 2019, snowpack measured at 105% 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 57% chance of a shortage on the Colorado River in 2020, increasing to 68% in 2021.

With estimated total demands and losses of 1.76 million acre-feet (MAF) and with a 15% SWP Table A Allocation, Metropolitan is projecting that demands will exceed supply levels in CY 2019. Based on this, estimated total dry-year storage for Metropolitan at the end of CY 2019 will go down to 2.0 MAF.

**ISSUE BRIEF # B**

**SUBJECT: MET's Finance and Rate Issues**

**RECENT ACTIVITY**

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At the January 2019 Metropolitan Finance and Insurance Committee, no information on water transactions was presented.



## **ISSUE BRIEF # C**

**SUBJECT: Colorado River Issues**

### **RECENT ACTIVITY**

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#### **Drought Contingency Plan Development**

Commissioner Burman addressed the Colorado River Water Users Association annual conference in Las Vegas December 13-15 and described Reclamation's priorities for the Colorado River basin in 2018. In her remarks, Commissioner Burman noted that the Drought Contingency Plan will be the top priority for the upcoming year and that Reclamation is looking for the states to complete their work during that time.

In describing the importance of finalizing work on the Drought Contingency Plan during the upcoming year, the Commissioner noted that the 2007 Shortage Guidelines (Guidelines), alone, are no longer enough to protect the system from the reservoir storage declines and worsening hydrology that have occurred since adoption of the Guidelines and pointed to Reclamation's modeling showing that implementation of both the Lower Basin Drought Contingency Plan and the Upper Basin Drought Contingency Plan together would provide important protection of the reservoirs and power production. The Commissioner urged the states to resolve any outstanding intrastate issues and to reach final agreement on the drought contingency plans.

A fact sheet on the Drought Contingency Plan is attached.

#### **Metropolitan Submits a Modified Water Order to the Bureau of Reclamation**

During December, Metropolitan submitted a Request for Revision to Approved Diversions for Calendar Year 2017 to Reclamation seeking approval to divert a total 685,000 acre-feet. Reclamation had approved the diversion of up to 632,676 acre feet of water earlier in 2017. Metropolitan submitted the modified order to:

- Enable Metropolitan to divert and store Imperial Irrigation District's (IID) Excess and Additional Excess Intentionally Created Surplus (ICS), consistent with Metropolitan and IID's storage agreement;
- Include unused Coachella Canal Lining Project mitigation water that Reclamation had not included in its initial approved water order and exchange it with San Diego County Water Authority; and
- Allow Metropolitan to divert water not needed by Coachella Valley Water District consistent the 1989 Approval Agreement.

Earlier this year, Metropolitan received approval to store up to 390,000 acre-feet of ICS in Lake Mead.

**Minute 319 Water Exchange Completed**

Reclamation sent notice on December 14, 2017 that the United States International Boundary and Water Commission received notification from Mexico that Mexico has provided the United States a total quantity of 124,000 acre-feet in satisfaction of Section III.1 of Minute 319. Pursuant to Minute 319 and the implementing agreements, a portion of this conserved water is converted into Binational ICS. Binational ICS is water that was conserved in Mexico, and the conservation was paid for by Metropolitan, IID, Central Arizona Project and Southern Nevada Water Authority (Local Funding Agencies). Each of the Local Funding Agencies will be credited with the amount of Binational ICS agreed to in the Interim Operating Agreement and Contributed Funds Agreements of 2012. Metropolitan's contributions as a Local Funding Agency entitled it to 47,500 acre-feet of Binational ICS, which will be shared equally with IID pursuant to the terms of a 2013 agreement between Metropolitan and IID regarding Binational ICS generated under Minute 319.

# COLLABORATION ON THE COLORADO RIVER: WORKING TOGETHER TO DEVELOP A MORE SUSTAINABLE SUPPLY



The Southwest's reliance on the Colorado River is hard to overstate – 40 million people, 5 million acres of farmland, the economies of seven states and diverse ecosystems and wildlife depend on its water. But that reliance is being challenged as climate change, unprecedented drought and growing demands have caused flows on the Colorado River to drop dramatically and storage levels in the system's two largest reservoirs – Lake Mead and Lake Powell – to do the same. In response, the federal government, states and urban and agricultural water districts that depend on the Colorado River are working together toward a solution. The result is the **Drought Contingency Plan** – a collection of proposed agreements within and among the seven western states in the Colorado River Basin to boost storage levels in Lake Mead and Lake Powell and prevent the reservoirs from reaching critically low levels. The Metropolitan Water District has been a leader in this ongoing collaboration and is committed to working cooperatively within California and beyond to ensure the plan's success.

## Supporting the Southwest

Seven states and part of the country of Mexico are dependent on the well-being of the Colorado River. Under the proposed DCP, the Lower Basin states would agree to contribute water to keep water levels higher in Lake Mead. The Upper Basin states gain tools, including coordinated reservoir management and water banking, to maintain higher levels in Lake Powell.



## Benefits of Working Collaboratively



Reduces risk of Lake Mead reaching critically low levels that would trigger severe mandatory cuts in the Lower Basin



Protects power generation at Hoover Dam



Secures stability in deliveries, allowing states to develop long-term solutions to structural imbalance on Colorado River



Allows Metropolitan access at lower elevations to its conserved water stored in Lake Mead



Avoids protracted litigation and political, legislative mandates



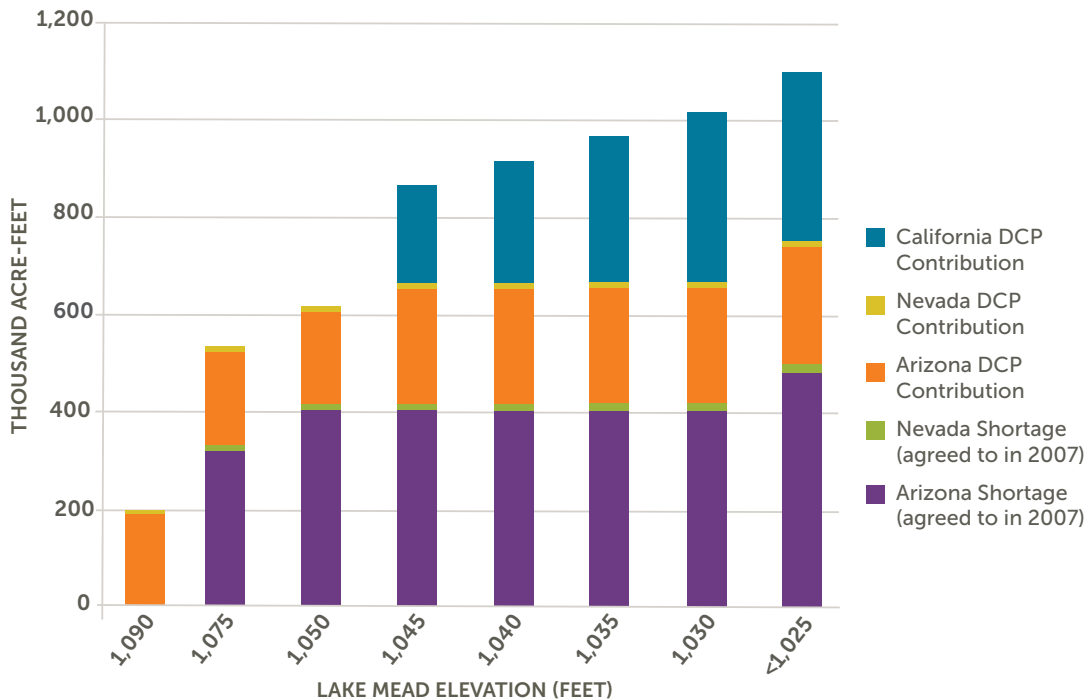
Supports flexibility built into Metropolitan's system reliability, including diverse storage, water transfer and land fallowing programs

## Contributing to the Solution

Under a 2007 agreement reached by the seven Colorado River Basin states, if Lake Mead’s level drops to 1,075 feet – about 5 feet below the current level – an official shortage would be declared. That declaration would trigger cuts in water deliveries to Arizona and Nevada. According to the U.S. Bureau of Reclamation, there is

a more than 50 percent chance of Lake Mead reaching shortage level by 2020. Further decline in lake levels would have additional, increasingly severe consequences. If approved, the Drought Contingency Plan would help avoid these larger declines and the significant challenges they would bring.

TOTAL LOWER BASIN CONTRIBUTIONS WITH DCP BY LAKE MEAD ELEVATION



### Pending Approval

The proposed DCP needs to be approved by states, water agencies and Congress. Consideration is expected in late 2018 and early 2019.

### CALIFORNIA CONTRIBUTION

Under the Proposed DCP:

Lake Mead Level  
Below 1,045 feet



California  
contribution  
200,000-350,000  
acre feet/year

Shared  
by

Metropolitan Water District  
Imperial Irrigation District  
Palo Verde Irrigation District  
Coachella Valley Water District

## More Collaboration on the Horizon

With Colorado River supplies already over-allocated, climate change is expected to exacerbate the imbalance by further decreasing flows on the Colorado River as temperatures warm.

Effective through 2026, the proposed DCP would provide stability while states and water agencies develop longer-term solutions to the existing Colorado River imbalance.

### ABOUT METROPOLITAN

The Metropolitan Water District of Southern California is a state-established cooperative of 26 member agencies – cities and public water agencies – that serve nearly 19 million people in six counties. Metropolitan imports water from the Colorado River and Northern California to supplement local supplies and helps its members develop increased water conservation, recycling, storage and other resource management programs.

### OUR MISSION

The mission of the Metropolitan Water District of Southern California is to provide its service area with adequate and reliable supplies of high-quality water to meet present and future needs in an environmentally and economically responsible way.



@mwdh2o

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## **ISSUE BRIEF # D**

**SUBJECT: Bay Delta/State Water Project Issues**

### **RECENT ACTIVITY**

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#### **Science Activities**

Metropolitan staff continued participation in the Collaborative Science and Adaptive Management Program, including participation on the Collaborative Adaptive Management Team. December meetings focused on Delta smelt issues. Metropolitan staff participated in the Delta Smelt Scoping Team process to develop a decision support tool for the Delta Smelt Resiliency Strategy, and develop management questions that would guide development of a longterm monitoring program to inform management actions for Delta smelt. DWR is planning to implement two Delta Smelt Resiliency Strategy actions in 2018 – the Suisun Marsh Salinity Control Gate action and the North Delta food web action. These actions are hypothesized to improve habitat conditions and provide greater access to food resources. Staff is providing input to the monitoring plan for the Suisun Marsh Salinity Gates action and to the comprehensive U.S. Bureau of Reclamation Directed Outflow Project for 2018, which will include monitoring of Delta smelt habitat factors throughout the spring to fall 2018 period.

On December 6, the California Department of Fish and Wildlife announced the selection of 39 projects to receive funding from its Water Quality, Supply and Infrastructure Improvement Act of 2014 (Proposition 1) Restoration Grant Programs. Seven projects were awarded funding in the scientific studies category. Staff assisted in the development and/or offered budgeted financial support for three of seven selected projects. These three projects are focused on the effects that pesticides have on juvenile salmonids that rear on floodplains; juvenile salmon distribution, abundance, and growth in restored Delta marsh habitats; and the impacts that export operations have on juvenile salmon survival, entrainment, and predation mortality.

#### **Delta Flood Emergency Management Plan**

DWR is currently testing a revised Emergency Response Tool (ERT) model that has been disaggregated so that various channel closure, pathway or other response scenarios can be simulated independent of the full Delta regional analysis. Testing has been conducted with the California Civil Air Patrol to characterize emergency conditions on the ground, and simulate response scenarios using ERT modeling capabilities.

Sheet pile with up to 120 feet installed length, consisting of large pipe pile and intermediate sheet pile between the pipe segments, is expected to be delivered to the Stockton stockpile site by the second quarter 2018. This piling would be capable of closing the deepest levee breaches and would be a redundant measure to rock closures in emergency conditions. With the pile delivery, stockpiles for purposes of emergency response should be almost complete. DWR plans to stockpile additional rock, bringing the total to more than 400,000 tons or enough to close three major breaches. In addition to stockpiled materials, the stockpile sites include four loading and offloading sites for rock, sheet pile, and other materials.

**ISSUE BRIEF # E**

**SUBJECT: MET's Ocean Desalination Policy and Potential Participation in the Doheny and Huntington Beach Ocean (Poseidon) Desalination Projects**

**RECENT ACTIVITY**

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**Doheny Desal**

The details of this have been moved to briefing Issue H as it pertains only to South Orange County.

**Poseidon Huntington Beach**

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 Amendment) which were approved by the State Water Resources Control Board in May 2015.

On October 1, 2018 SARWQCB notified Poseidon that their application for a revised ocean discharge diffuser design, which was required by the Ocean Plan Amendment, was complete. This was the second time the Regional Board notified Poseidon that its application was complete (the previous notification was on August 28, 2017). The Permit Streamlining Act (PSA) requires a responsible agency to approve or disapprove of an application within 180 days. Poseidon maintains that their application is subject to the PSA, while SARWQCB contends that this application is not subject to the PSA.

Subsequently on December 6, 2018 SARWQCB notified Poseidon that Regional Board staff concluded that Poseidon has not adequately demonstrated that the use of slant well technology is infeasible at the Huntington Beach site, despite the previous notifications and meetings with Regional Board staff. Poseidon has rebutted the Regional Board's conclusion in a response letter dated December 11, 2018.

Poseidon expects the SARWQCB to act on its permit in the next three to five months. Assuming approval, Poseidon would then seek a permit from the California Coastal Commission in 2019.

## **ISSUE BRIEF # F**

**SUBJECT: Orange County Reliability Projects**

### **RECENT ACTIVITY**

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#### **Orange County Water Reliability Study**

MWDOC staff and CDM Smith have released the final report of the 2018 OC Water Reliability Study which was provided to the Board for a 'receive and file' action on January 16<sup>th</sup>.

#### **Next Steps**

The next steps include the following:

1. Complete additional work on the Carson Project and its reliability implications in Orange County (includes work between MWDOC and OCWD)
2. Complete additional analysis on the Strand Ranch Integrated Water Banking Program using the results of the study. This work is now in progress.
3. Develop a list of items to advocate for at MET with respect to the next MET IRP update based on comments coming out of our study.
4. Complete additional work on systems integration for local water in SOC (includes water quality issues, chloramination facilities, reversing flow of systems, building in redundancies, metering of low flow water, base-loading of projects, etc.).
5. Integrate the results of the recent workshop regarding integration of local projects into the Orange County water system.
6. Work with OCWD on the SARCCUP Project to determine the potential uses of the extraordinary supplies developed through the project and how they can best be used in Orange County.

## ISSUE BRIEF # G

**SUBJECT: East Orange County Feeder No. 2**

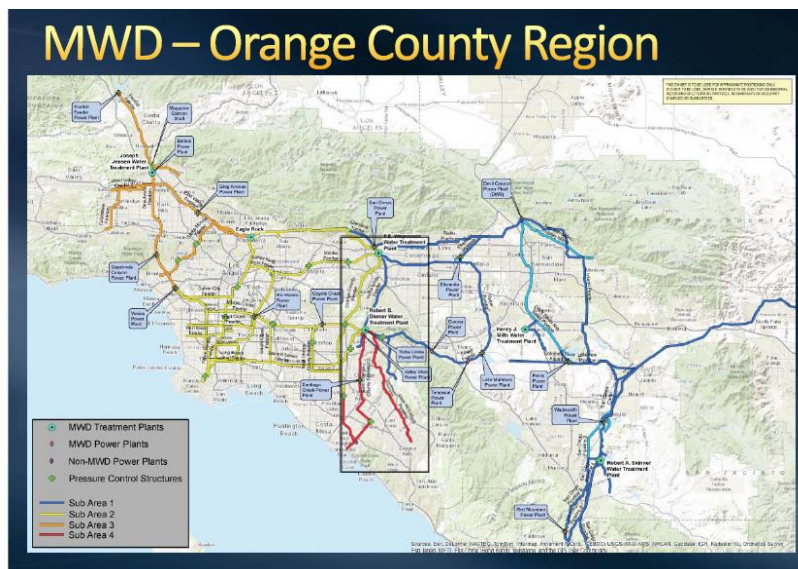
### **RECENT ACTIVITY**

#### **Use of East Orange County Feeder No. 2 for Conveyance of Groundwater and/or Poseidon Water**

MWDOC has been meeting with MET staff to discuss various aspects of using the EOCF#2 to convey other sources of local water. This concept can include ocean desalination projects, and/or other local projects such as the groundwater pump-in to the EOCF#2.

On August 31, 2018, MWDOC hosted a Water System Operations and Integration Workshop attended by technical staff from: MET's Water Quality team, MWDOC member agencies, and consultants. The workshop focused on the possible integration of multiple treated water sources into the OC water distribution system; particularly in the lower reaches of EOCF#2. The collaborative discussion identified a number of potential issues for follow-up. Staff and our consultant, Ed Means, are working through the workshop recommendations to develop a plan to address these issues.

On October 17, 2018 MWDOC staff met with members of MET's Facilities Planning team to discuss the capabilities of and experiences with MET's water distribution system model (which is principally a hydraulic model). MWDOC staff began a discussion about the possibilities of leveraging the existing MET model data for inclusion into an OC water distribution model. The OC model concept is envisioned to include distribution pipelines in OC such as EOCF#2, AMP, Joint Regional Water Supply System (JWRSS), and South County Pipeline. The OC model concept would also include a water quality module to assist with the development of solutions to the issues identified during the Water Systems Operations and Integration Workshop. MET staff was generally favorable to the idea of sharing information, and are currently evaluating a number of possible alternatives that will be discussed with MET executive management.



## **ISSUE BRIEF # H**

**SUBJECT: South Orange County Projects**

### **RECENT ACTIVITY**

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#### **Doheny Desal Project**

South Coast WD submitted a grant application for up to \$20 million for project construction through Bureau of Reclamation 'Water SMART: Desalination Construction Projects under the WIIN Act'. Applications are currently being reviewed.

South Coast staff and consultants are in the process of responding to comments submitted regarding the EIR for the project. South Coast WD anticipates adopting the response to comments in Spring 2019.

#### **SMWD Trampas Canyon Recycled Water Reservoir**

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

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

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

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

### **PROJECT STATUS**

#### **Preconstruction/Site Preparation**

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

#### **Dam and Pipelines**

The Construction Contract was awarded in December 2017 and is approximately 37% complete.



### Pump Station

The preliminary design of this facility was resubmitted by AECOM in mid-December for District review and approval. The Design process is likely to continue thru the end of February 2019, and the project will likely be available to start the construction bidding process in March 2019. Completion of the construction is expected to be in February 2020, about 3-4 months ahead of the Reservoir and Dam completion.

### San Juan Watershed Project

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:

- 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

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.

### Other Information on South County Projects:

If any agencies would like to have updates included herein on any projects within your service area, please email the updates to Karl Seckel at [kseckel@mwdoc.com](mailto:kseckel@mwdoc.com).

**Summary Report for  
The Metropolitan Water District of Southern California  
Special Board Meeting  
January 22, 2019**

**COMMITTEE CHAIR AND VICE CHAIR APPOINTMENTS (Agenda Item 5A)**

Approved Chair and Vice Chair of standing committee appointments for the term commencing on February 1, 2019:

**Agriculture and Industry Relations Committee**

Director Record was appointed Chair

Director Dick was appointed Vice Chair

**Audit and Ethics Committee**

Director Ramos was appointed Chair

Director Paskett was appointed Vice Chair

**Communications and Legislation Committee**

Director Cordero was appointed Chair

Director Kurtz was appointed Vice Chair

**Conservation and Local Resources Committee**

Director Gold was appointed Chair

Director Abdo was appointed Vice Chair

**Engineering and Operations Committee**

Director Smith was appointed Chair

Director De Jesus was appointed Vice Chair

**Facilities Naming Ad Hoc Committee**

Director Morris was appointed Chair

Director Lefevre was appointed Vice Chair

**Finance and Insurance Committee**

Director Dake was appointed Chair

Director Steiner was appointed Vice Chair

**Legal and Claims Committee**

Director McKenney was appointed Chair

Director Quiñonez was appointed Vice Chair

**Organization, Personnel and Technology Committee**

Director Murray was appointed Chair

Director Zurita was appointed Vice Chair

**Real Property and Asset Management Committee**

Director Hogan was appointed Chair

Director Peterson was appointed Vice Chair

**Special Committee on Bay Delta**

Director Ackerman was appointed Chair

Director Pressman was appointed Vice Chair

**Water Planning and Stewardship Committee**

Director Atwater was appointed Chair

Director Kurtz was appointed Vice Chair

**THIS INFORMATION SHOULD NOT BE CONSIDERED THE OFFICIAL MINUTES OF THE MEETING.**

Board letters related to the items in this summary are generally posted in the Board Letter Archive approximately one week after the board meeting. In order to view them and their attachments, please copy and paste the following into your browser

<http://edmsidm.mwdh2o.com/idmweb/home.asp>

All current month materials, before they are moved to the Board Letter Archive, are available on the public website here: <http://mwdh2o.com/WhoWeAre/archived-board-meetings>



THE METROPOLITAN WATER DISTRICT  
OF SOUTHERN CALIFORNIA

# MWD MEETING AGENDA

**Regular Board Meeting**  
**February 12, 2019**  
**12:00 p.m. – Boardroom**

Tuesday, February 12, 2019		
Meeting Schedule		
9:00 AM	L&C	Rm. 2-145
11:00 AM	OP&T	Rm. 2-456
12:00 PM	Board Mtg	Boardroom

MWD Headquarters Building

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700 N. Alameda Street

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Los Angeles, CA 90012

## 1. Call to Order

- (a) Invocation: Waheeda Ali, Associate Engineer,  
Engineering Services Group
- (b) Pledge of Allegiance: Director Linda Ackerman, Municipal  
Water District of Orange County

## 2. Roll Call

## 3. Determination of a Quorum

- 4. Opportunity for members of the public to address the Board on matters within the Board's jurisdiction. (As required by Gov. Code § 54954.3(a))
  - a. Presentation by David Wright, General Manager, Los Angeles Department of Water and Power: \$1.4 million solar incentive program rebate for Joseph Jensen Water Treatment Plant

## 5. OTHER MATTERS

- A. Approval of the Minutes of the Meeting for January 8, 2019; the Minutes for the Special Board Workshop to Review San Diego County Water Authority Proposal for Settlement of Pending Litigation; and the Special Board Meeting for January 22, 2019 (Copies have been mailed to each Director)  
Any additions, corrections, or omissions

- B. Report on Directors' events attended at Metropolitan expense for month of January
- C. Approve committee assignments
- D. Chairwoman's Monthly Activity Report
- E. Induction of new Director Jasmin A. Hall from Inland Empire Utilities Agency
  - (a) Receive credentials
  - (b) Report on credentials by General Counsel
  - (c) File credentials
  - (d) Administer Oath of Office
  - (e) File Oath
- F. Induction of new Director Adan Ortega from the City of Fullerton
  - (a) Receive credentials
  - (b) Report on credentials by General Counsel
  - (c) File credentials
  - (d) Administer Oath of Office
  - (e) File Oath
- G. Induction of new Director Jose Solorio from the City of Santa Ana
  - (a) Receive credentials
  - (b) Report on credentials by General Counsel
  - (c) File credentials
  - (d) Administer Oath of Office
  - (e) File Oath
- H. Nomination and Election of nonofficer members of the Executive Committee for two-year term effective February 12, 2019
- I. Approve Commendatory Resolutions for Directors Peter Beard representing the City of Fullerton, Michael Camacho representing Inland Empire Utilities Agency, and Michelle Martinez representing the City of Santa Ana
- J. Presentation of Commendatory Resolution honoring Randy A. Record for his leadership during his term as Chairman of Metropolitan's Board of Director



## **6. DEPARTMENT HEADS' REPORTS**

- A. General Manager's summary of activities for the month of January
- B. General Counsel's summary of activities for the month of January
- C. General Auditor's summary of activities for the month of January
- D. Interim Ethics Officer's summary of activities for the month of January

## **7. CONSENT CALENDAR ITEMS — ACTION**

- 7-1 Award a contract in an amount not to exceed \$799,170 to ViaTRON Systems, Inc. for conversion of hardcopy documents into electronic images for migration into the planned Enterprise Content Management System; the General Manager has determined the proposed action is exempt or otherwise not subject to CEQA. (OP&T)

### **END OF CONSENT CALENDAR**

## **8. OTHER BOARD ITEMS — ACTION**

- 8-1 Award \$20,975,000 contract to J.F. Shea Construction, Inc., to rehabilitate the Greg Avenue Pump Station; and authorize an agreement with Black & Veatch for a not-to-exceed amount of \$900,000 for engineering services during construction; the General Manager has determined that the proposed actions are exempt or otherwise not subject to CEQA. (E&O)
- 8-2 Award \$16,452,832 contract to Baker Electric, Inc. to replace the 6.9 kV power cables at each Colorado River Aqueduct pumping plant; the General Manager has determined that the proposed action is exempt or otherwise not subject to CEQA. (E&O)

**8-3** Appropriate \$4,212,500, and authorize entering into a project agreement with the Sites Project Authority for participation in the Sites Reservoir 2019 Workplan; the General Manager has determined the proposed action is exempt or otherwise not subject to CEQA. (WP&S)

**8-4** Authorize implementation of modifications to the Landscape Transformation Program; the General Manager has determined that these actions are exempt or otherwise not subject to CEQA. (WP&S)

**8-5** Authorize the General Manager to acquire up to 732 acres of property located in Riverside County in the Palo Verde Valley; the General Manager has determined that the action is exempt or otherwise not subject to CEQA. (RP&AM)

**[Conference with real property negotiators; property identified as Riverside County Assessor's Parcel Nos. 830-050-015; 830-210-005; 830-210-014; 830-220-004; 833-030-030; 833-081-001; 833-081-002; 833-091-001; 833-091-003; 833-091-004; 833-091-005; 833-091-032; 836-050-015; 836-050-017; 836-100-010; 836-100-011; 836-155-018; 857-130-003; 857-130-006; 857-130-010; 857-130-013; 866-040-002; 866-040-003; 866-080-008; 866-120-003; 866-120-004; 869-260-001; agency negotiators: Stephen Vollucci and James Vanden Akker; negotiating parties: Wegis Family, LP and Wey Almond Farms, LLC; under negotiation: price and terms; to be heard in closed session pursuant to Gov. Code Section 54956.8]**

**8-6** Authorize the General Manager to sell 243 acres on Chipps Island located in Solano County to the Department of Water Resources; the General Manager has determined that this action is exempt from or otherwise not subject to CEQA. (RP&AM)

**[Conference with real property negotiators; property identified as Metropolitan Water District Parcel Number BD3033210 (Solano County Assessor's Parcel No. 0090-060-010); agency negotiators: Laura Simonek and Bryan Otake; negotiating party: State of California Department of Water Resources; under negotiation: price and terms; to be heard in closed session pursuant to Gov. Code Section 54956.8]**

- 8-7** Authorize partial settlement in San Diego County Water Authority v. Metropolitan Water District of Southern California, et al., San Francisco County Superior Court Case Nos. CPF-10-510830 and CPF-12-512466; the appeal of the 2010 and 2012 actions, Court of Appeal for the First Appellate District Case Nos. A146901 and A148266 and California Supreme Court Case No. S243500; and the petition for extraordinary writ in the 2010 and 2012 actions, Court of Appeal for the First Appellate District Case No. A155310; the General Manager has determined that the proposed action is exempt or otherwise not subject to CEQA. (L&C) **[Posting Separately]**  
**[Conference with legal counsel – existing litigation; to be heard in closed session pursuant to Gov. Code Section 54956.9(d)(1)]**

## **9. BOARD INFORMATION ITEMS**

- 9-1** Update on Conservation Program
- 9-2** Information on potential credit to enhance in-lieu deliveries to cyclic storage under limited conditions. (WP&S) **[Posting Separately]**

## **10. FOLLOW-UP ITEMS**

## **11. FUTURE AGENDA ITEMS**

## **12. ADJOURNMENT**

**NOTE:** Each agenda item with a committee designation will be considered and a recommendation may be made by one or more committees prior to consideration and final action by the full Board of Directors. The committee designation appears in parentheses at the end of the description of the agenda item e.g., (E&O, F&I). Committee agendas may be obtained from the Board Executive Secretary.

Writings relating to open session agenda items distributed to Directors less than 72 hours prior to a regular meeting are available for public inspection at Metropolitan's Headquarters Building and on Metropolitan's Web site <http://www.mwdh2o.com>.

Requests for a disability related modification or accommodation, including auxiliary aids or services, in order to attend or participate in a meeting should be made to the Board Executive Secretary in advance of the meeting to ensure availability of the requested service or accommodation.