

**WATER PLANNING COMMITTEE**

AGENDA FOR

**JANUARY 28, 2010**

Javier Saunders – Chair  
Rua Petty – Vice Chair  
Betty Ferguson – Vice Chair  
Jim Barrett  
Marilyn Dailey  
Keith Lewinger  
Bud Lewis

John Linden  
Barry Martin  
Dan McMillan  
Mark Muir  
Joseph Parker  
Fern Steiner  
Mark Watton

1. Roll call – determination of quorum.
2. Additions to agenda (Government Code Section 54954.2(b)).
3. Public comment – opportunities for members of the public to address the Committee on matters within the Committee’s jurisdiction.
4. Chair’s report.
  - 4-A Progress report on Water Planning Committee’s Goals for 2009 and 2010.
  - 4-B Directors’ comments.

**I. CONSENT CALENDAR**

1. Professional services contract to RECON Environmental to provide environmental consulting and support services. Mark Tegio  
Staff recommendation: Authorize the General Manager to award a professional services contract to RECON Environmental to provide environmental consulting and support services for a 30-month period for an amount not-to-exceed \$250,000. (Action)



**II. ACTION/DISCUSSION**

1. Drought Management Plan Implementation report. (Information) Dana Friehauf

**III. INFORMATION**

1. Water Resources report. Ken Weinberg
2. Fiscal Year 2010 Water Supply Allocations monitoring. Dave Fogerson  
(pickup packet)

**IV. CLOSED SESSION**

**V. ADJOURNMENT**

Doria F. Lore  
Clerk of the Board

**NOTE:** This meeting is called as an Water Planning Committee meeting. Because a quorum of the Board may be present, the meeting is also noticed as a Board meeting. Members of the Board who are not members of the Committee may participate in the meeting pursuant to Section 2.00.060(g) of the Authority Administrative Code (Recodified). All items on the agenda, including information items, may be deliberated and become subject to action. All public documents provided to the committee or Board for this meeting including materials related to an item on this agenda and submitted to the Board of Directors within 72 hours prior to this meeting may be reviewed at the San Diego County Water Authority headquarters located at 4677 Overland Avenue, San Diego, CA 92123 at the reception desk during normal business hours.



January 20, 2010

**Attention: Water Planning Committee**

**Progress Report on Water Planning Committee's Goals and Objectives for 2009 and 2010**

**Purpose**

The attached report summarizes activities to be performed in support of the Water Planning Committee's goals and objectives for 2009 and 2010

**Background**

The goals for the Water Planning Committee relate to water planning and local supply development including: water demand and supply planning; shortage allocation planning; water supply forecasting and reporting; seawater desalination; water reclamation; groundwater and conjunctive use; local surface water; environmental management; Urban Water Management Plans; and other planning matters.

On April 23, 2009, the Board of Directors adopted a new set of goals for the Water Planning Committee to accomplish in 2009 and 2010.

**Discussion**

The attached progress report lists the Water Planning Committee's goals and objectives, and provides an update on the activities taken to implement the objectives and achieve the goals. This report was prepared under the direction of the Water Planning Committee Chair, Javier Saunders.

Prepared by: Ken Weinberg, Director of Water Resources

Approved by: Sandra L. Kerl, Deputy General Manager

Approved by: Javier Saunders, Chair, Water Planning Committee

Attachment: Progress Report on Water Planning Committee's Goals for 2009 and 2010

## **Water Planning Committee Goals Calendar Years 2009 and 2010**

### **Strategic Plan Objectives:**

1. Obtain 30,000 acre-feet (AF)/year of short-term water transfers and groundwater banking to meet dry year supply needs (January 2010).

**Activities:** The Committee/Board authorized execution of a dry-year water transfer with Placer County Water Agency in May 2009. After accounting for conveyance losses, a total of 15,520 AF was delivered to the Water Authority.

2. Update the Water Facilities Master Plan in conjunction with the 2015 Urban Water Management Plan (January 2012).

**Activities:** Special meetings of the Water Planning Committee were convened in May and September to review long-range facility planning efforts including the Camp Pendleton Desalination Project Feasibility Study (May), the Pipeline 6 alignment study (May) as well as the issues surrounding new facility impacts to treated and untreated water service (September) and the schedule and milestones for the planned Water Facilities Master Plan update. Based on the input received at these special meetings, staff plans to bring the proposed Master Plan Update, scope, and associated consultant contracts that will support the Update to the Committee in 2010.

3. The Water Authority will have facilitated and/or developed local seawater and brackish groundwater desalination facilities that represent 10 percent of the region's total water supply requirements (January 2020).

**Activities:** In May 2009 the Committee recommended to the Board approval of policies to facilitate the exchange and wheeling of local supplies which will facilitate implementation of the 56,000 AFY Carlsbad Desalination project and other potential seawater or brackish projects. In October and December 2009, the Committee approved the Seawater Desalination Program incentive funding Agreement for the Carlsbad Desalination Project. In May 2009 the Committee received a report on the results of the Camp Pendleton Desalination Project Feasibility Study.

4. Member agencies, with the assistance of the Water Authority, will supply at least six percent of the region's total water supply through non-potable reuse (January 2025).

**Activities:** In January 2009, the Committee approved extension of an agreement for recycled water permitting services with the State Water Resources Control Board to provide dedicated staff to process member agencies permits for recycled water use. In February 2009, the Committee approved an amendment to the agreement with the existing program contractor that provides legally required Recycled Water Site Supervisor Training on behalf of the member agencies and their customers who use recycled water. The Committee also approved in February 2009, Local Water Supply Development Funds for Ramona Municipal Water District's San Vicente Water

Recycling Program and submitting an application for MWD Local Resources Program (LRP) funding consideration. In October 2009, the Committee approved extension of the Recycled Water Marketing and Technical Assistance Program for an additional two years to increase and promote recycled water use primarily to industrial and commercial customers. Water Authority continued to manage and provide MWD program funding to the member agencies through the Accelerated Public Sector Water Efficiency Partnership Demonstration Program, Public Facility Recycled Water Retrofit Program, and implemented and managed the SDG&E Recycled Water Retrofit Program which provided additional public retrofit funding to the member agencies.

## **Business Plan Goals & Other Related Goals:**

### **Brackish and Seawater Desalination**

1. Work with Desal Partners to define delivery regime and distribution system for the Carlsbad Desalination Project (December 2009).

**Activities:** In 2009, staff worked with the Desal Partner agencies and Poseidon to finalize the desalination project distribution system that will connect to and deliver the majority of desalinated seawater supplies through the Water Authority's regional aqueduct system. Staff continues to work with the Desal Partners and Poseidon to prepare related agreements for consideration by the Committee for approval in 2010.

2. Approve funding agreements for MWD's Seawater Desalination Program for member agencies contracting for water from the Carlsbad Desalination Project (May 2009).

**Activities:** Approved by the Committee in October and again in December 2009 to incorporate language added by MWD's Board.

3. Approve Exchange or Wheeling agreements with member agencies contracting for water from the Carlsbad Desalination Project (Fall 2009-Winter 2010).

**Activities:** Scheduled to be presented to the Committee for approval in early 2010.

4. Complete planning effort for the Seawater Desalination Project at Camp Pendleton (December 2010).

**Activities:** As noted in Strategic Plan goal #3 the feasibility study is completed. The results were presented to the Committee in May 2009 at a special meeting of the Committee. Staff is currently working with MCB Camp Pendleton on a Memorandum of Understanding (MOU) to cover further planning and technical studies on the project. The MOU is scheduled to be considered by the Committee in early 2010

5. Provide Staff Direction on next steps based on results of Camp Pendleton Initial Feasibility Study (April 2009).

**Activities:** Staff received input/direction from the Committee at the May and September 2009 special meeting of the committee regarding the scope of the technical studies planned for the project, including addressing treated water supply integration and additional conveyance alignment alternatives. Staff will return by mid 2010 with agreements to execute the technical studies.

6. Complete detailed Feasibility Study for the South San Diego County Desalination Project (December 2010).

**Activities:** This study was deferred in light of the study effort initiated in 2009 to evaluate the feasibility of a Rosarito Beach desalination facility in Mexico.

7. Establish governmental responsibility/ownership for successful implementation of a Regional Brine Line System to support local brackish groundwater desalination and Water recycling projects (December 2010).

**Activities:** The results of this study were presented to the Committee in July 2009. As reported to the Committee further work will be postponed until the timing and need for a Regional Brine Line System is better defined by a “driver” project.

## **Drought Management**

1. Develop “water supply offset” provision for new development (January 2009).

**Activities:** In January 2009, the Committee received a report on the framework for handling new demand offsets within the San Diego region during shortages. The framework was developed with input from a member agency workgroup and is being implemented at the retail level by the member agencies.

2. Develop 5-year regional water supply plan that manages storage reserves and reduces shortage risks (April 2009).

**Activities:** Multi-year supply plan presented to the Committee in April 2009 as part of the Committee consideration of shortage management actions in response to supply cutbacks from MWD in fiscal year 2010. An initial updated multi-year supply plan was also presented to the Committee in December 2009.

3. Maximize regional carryover storage capacity through agreements with member agencies as part of drought response and shortage mitigation (on-going).

**Activities:** The Committee approved an extension of the carryover storage agreement with Sweetwater Authority. Committee consideration of the renewal of the carryover storage agreement with the city of San Diego is planned for early 2010.

4. Identify and develop emergency local water supplies (January 2010).

**Activities:** As a result of higher drought management priorities and a lessening of the severity of water supply shortages, this goal was deferred to January 2011.

5. Secure 30,000 AF per year of short-term water transfers and groundwater banking and recovery to meet dry year supply needs (May 2010).

**Activities:** See Strategic Plan goal #1

6. Approve final member agency drought allocation percentages for fiscal year 2009 and fiscal year 2010 if necessary (May 2009, May 2010).

**Activities:** The Committee/Board approved the final member agency allocations in April 2009. Adjustments, if any, will be considered by the Committee in March 2010.

7. Make timely recommendations to the full Board of Directors on modifications to member agency drought allocations (on-going).

**Activities:** The Committee receives monthly reports on allocation performance. With overall regional water use down over 10 percent over 2008 and M&I water use through the first five months of the fiscal year is over 21 percent less than the allocation target, no modifications have been necessary.

8. Provide timely and appropriate responses to drought management strategies to account for changing circumstances and conditions (on-going).

**Activities:** The Committee receives monthly reports on allocation performance and drought management implementation. Staff presented to the Committee an initial water supply outlook for 2010 in December 2009. Because of the successful reduction in demand and late winter improvements in supply no further actions have been necessary. The water supply outlook will be updated as conditions change in 2010.

## **Recycled Water**

1. By 2012, over 32,000 AF of recycled water will be beneficially reused in San Diego county, and will supply four percent of the San Diego region's water demand (December 2012).

**Activities:** See Strategic Plan goal #4

2. Evaluate regional strategies to address regulatory and other constraints and develop recommendations to increase beneficial reuse of recycled water.

**Activities:** In August the Committee received a report discussing staff involvement in state wide regulatory issues affecting recycled water projects in the Water Authority's service area. These included the development of amendments to the 2010 California Plumbing Code (CPC) for the installation of indoor dual plumbed systems which permits the use of recycled water for toilet and urinal flushing and State Water Resources Control

Board adoption of a statewide “Recycled Water Policy”. Subsequent to the August 2009 Committee meeting staff initiated and coordinated a regional Recycled Water Workshop on October 6, 2009, to discuss implementation of specific aspects of the State Board’s policy primarily the benefits of water and recycled water agency involvement in a regional approach to salt/nutrient management planning in the San Diego region.

### **Climate Change and Sustainability**

1. Recommend decision support tools or strategies to assist with update of the Urban Water Management Plan (December 2009).

**Activities:** In September 2009, staff developed a draft report recommending a decision support tool to address climate change and regulatory uncertainties in long-range water supply planning. Staff presented the recommended process to the member agencies at the UWMP Member Agency Workshop in October 2009. Staff will present this strategy to the Committee during a 2010 UWMP status report in early 2010.

### **Environmental Management**

1. Develop and recommend policy to integrate AB32 greenhouse gas reduction requirements into CEQA environmental compliance activities (June 2010).

**Activities:** Since the passage of SB97, staff has been monitoring and evaluating development of new CEQA guidelines amendments for addressing greenhouse gasses in environmental documents. They will not be effective until the Office of Administrative Law completes a review and authorizes publication in the California Code of Regulations. In addition, the California Air Resources Board, per AB32, is in the process of promulgating new greenhouse gas emission regulations that are expected to assist in identifying significant thresholds for CEQA purposes.

### **Infrastructure Planning**

1. Develop and recommend approval to the full Board of policies that facilitate the exchange and wheeling of local water supplies and provide guidelines on Water Authority purchase of excess local supplies ( March-April 2009).

**Activities:** In May 2009, the Committee approved both policies. Also see Strategic Plan goal #3.

2. Board approval of the San Diego Pipeline 6 feasibility study, and selection of a preferred pipeline alignment and implementation schedule for CEQA compliance, design, and construction (May 2009).

**Activities:** At the special committee meeting in May 2009, the Committee received information on results of the Pipeline 6 feasibility study and the identification of a preferred alignment. The Committee supported moving forward with CEQA studies,



pending approval from MWD to proceed with CEQA studies. Approval to proceed with CEQA is scheduled to be considered by MWD in early 2010.

3. Review and provide direction to staff on incorporation of desalination and other new sources of water from the perspective of geographic location, prioritization, annual operating issues, fluctuating demands and optimizing local and regional surface water treatment facilities.

**Activities:** At the special committee meeting in September 2009, the Committee provided input regarding long-range facility planning efforts related to imported supplies, desalination supplies, and projected demands for treated and untreated water. These issues will be further addressed in 2010 when the scope of work and consultant contracts for the Regional Water Facility Master Plan Update will be presented for Board approval.

### **Water Resources Planning**

1. Consider requests for annexations in a manner consistent with Board adopted policies and taking into account current water supply constraints (on-going).

**Activities:** The Committee established preliminary terms and conditions for the Yuima Municipal Water District's proposed Pauma Ranch annexation based on Board adopted policies in September 2009. The Committee also directed staff to develop procedures for implementing annexation policy number 2 relating to supply reliability and bring those back to the Board for action before consideration of additional annexation proposals. In coordination with a member agency workgroup, staff is drafting procedures and plans to present to the Committee in early 2010 for consideration.

2. Complete Annual Water Supply Report as required by Water Authority Administrative Code Section 8.00.050 (Annually, except UWMP preparation years).

**Activities:** Staff was unable to complete a draft Supply Report for Committee consideration because Metropolitan's Integrated Resources Plan, critical to completion of the report, has not yet been updated to reflect changed conditions associated with the State Water Project. Next report is scheduled for 2011, with the Urban Water Management Plan prepared in 2010.

3. Implement business structure to secure and distribute the initial \$25 million and future IRWM planning and project grant funding (June 2011).

**Activities:** In July and August 2009 the Committee authorized the distribution of Proposition 50 funding to member agencies, the county of San Diego and several Non-Governmental Organizations (NGOs) awarded Proposition 50 IRWM grants. Also in August 2009 the committee approved amendments to the Board approved MOU among the Regional Water Management Group partners (Water Authority, county of San Diego, and city of San Diego) vesting the Water Authority as the sole agency for distribution of funding. Staff has established internal business structures to distribute the Proposition 50 funding and is entering into contacts with the local project sponsors. In March 2009, the

Committee approved entering into a tri-county MOU between the San Diego RWMG and RWMGs for the Upper Santa Margarita River Watershed and southern Orange County to allocate future Proposition 84 IRWM funding and to cooperate on mutual planning issues.

4. Complete 2010 Urban Water Management Plan by December 2010, to comply with California Water Code Sections 10610 – 10656 (December 2010).

**Activities:** Staff is on schedule to present a draft 2010 UWMP to the Committee by September 2010. In October 2009, staff held a workshop to begin coordination with member agencies on development of the UWMP. A status report on preparation of the UWMP will be presented to the Committee in early 2010.

5. Complete water demand forecast model update, taking into account current and long-range weather impacts (December 2010).

**Activities:** A preliminary demand forecast is scheduled to be presented to the Committee by March 2010.



January 20, 2010

**Attention: Water Planning Committee**

**Professional services contract to RECON Environmental to provide environmental consulting and support services. (Action)**

**Staff recommendation**

Award a professional services contract to RECON Environmental to provide environmental consulting and support services for a 30-month period for a not-to-exceed amount of \$250,000.

**Alternatives**

Do not authorize the contract and direct staff to negotiate with other consultant(s) or solicit new proposals.

**Fiscal Impact**

There are sufficient funds to support adoption of staff recommendation within the project budgets and the proposed fiscal years 2010 and 2011 Capital Improvement Program (CIP) appropriation. Funding for subsequent years will be dependent on Board approval of the proposed CIP appropriations for those years. This contract impacts the transportation rate category.

**Background**

The Water Authority is implementing several CIP projects within Mission Trails Regional Park (MTRP) to improve service and reliability of the raw water system to Lake Murray and end users within Sweetwater Authority and Otay Water District boundaries. Two of these projects, the Lake Murray Flow Control Facility (LMFCF) and the Mission Trails Isolation Valve (MTIV), will help maintain the full operational capacity of the Mission Trails suite of projects after build-out. The LMFCF would be installed in a small underground vault along the existing Pipeline 3 alignment east of Lake Murray. The LMFCF will control untreated water flows along Pipeline 3, provide better flow balancing to the Alvarado Treatment Plant, and allow for isolation of the southern section of Pipeline 3 near the Lake Murray interconnect. Upon completion of the LMFCF project, the Navajo Vent structure on Pipeline 3 can be demolished and removed. The MTIV involves installation of an isolation valve in a new underground vault along the existing Pipeline 3 alignment within MTRP. This project will provide isolation between Pipeline 3 and Pipeline 4 for greater operational flexibility between the Shepherd Wye Connection and the Pipeline 3/Pipeline 4 intertie at Lake Murray.

**Discussion**

A Request for Proposals (RFP) advertisement for environmental support services was published in The San Diego Daily Transcript on November 10, 2009. The RFP was emailed directly to 453 environmental consulting firms via the Water Authority's online vendor database (The Network). Notice of the RFP was also posted under "Upcoming Contract Opportunities" on the Water

Authority's website during this time period. A pre-proposal meeting for the project was held at the Water Authority on November 18, 2009. Sixteen firms attended the pre-proposal meeting. Five proposals were received in response to the RFP. The firms that submitted proposals were: AECOM Technical Services, Environmental Science Associates, Pacific Municipal Consultants, RBF Consulting, and RECON Environmental. Based on an evaluation of written proposals and consultant interviews, RECON was selected as the best qualified to perform the required work.

RECON is a consulting firm specializing in environmental compliance and resources studies. Key factors in their selection were the level of experience and capability of the team, their understanding of the key issues, past performance on projects of similar size and scope, and experience and working relationship with the regulatory agencies. The project manager and key staff have proven capabilities related to environmental and permitting compliance, have demonstrated their experience and knowledge of the key issues related to the projects, and provide a full range of environmental assessment services. Their expertise in California Environmental Quality Act (CEQA) compliance, as well as compliance with other federal, state, and local environmental protection laws, was aptly demonstrated during previous Water Authority projects as well. The contract will include work to prepare all CEQA documents, and to assist with federal, state, and local agency coordination and permitting.

The recommendation to award an environmental support contract is based on an analysis of the project tasks within the context of our staff/consultant mix criteria. The preparation of the required environmental documentation requires a level of expertise and specialized skill set which the RECON team provides. It also represents the most cost effective approach. Upon Board approval, the contract will be executed for a not-to-exceed amount of \$250,000.00.

Because this project has well defined environmental compliance tasks, RECON has the necessary expertise within the firm for most of the work to be performed. The team does include a subcontractor for traffic studies. Since the scope of the expected CEQA and permitting work is limited, subcontracting opportunities were not anticipated, and SCOOP requirements for good faith efforts to conduct outreach to qualified small businesses, including outreach to minority and women-owned businesses, were not imposed, although encouraged. The small business participation for this project is 100 percent, however, since both RECON and the subcontractor are SCOOP firms. There is no minority- and women-owned business participation for this project. This information is provided for statistical purposes.

Prepared by: Mark Tegio, Senior Water Resources Specialist

Reviewed by: Ken Weinberg, Director of Water Resources

Approved by: Sandra L. Kerl, Deputy General Manager



January 20, 2010

**Attention: Water Planning Committee**

**Drought Management Plan Implementation Report (Information)**

**Purpose**

To provide a status report on water supply and demand conditions and implementation of the Water Authority’s Drought Management Plan.

**Background**

*Drought Management Plan: Stage 3 “Mandatory Cutbacks”*

*Drought Response Level: Level 2 “Drought Alert”*

El Niño is present across the equatorial Pacific Ocean. According to the Climate Prediction Center on January 7, 2010, El Niño is expected to last at least into the Northern Hemisphere spring 2010. Potential El Niño impacts include above-average precipitation for the southern tier of the country, with below-average precipitation in the Pacific Northwest.

**Discussion**

State Water Project

The California Department of Water Resources’ (DWR) initial allocation for water delivery to the State Water Project contractors in calendar year 2010 remains at five percent, which is the lowest allocation in the history of the State Water Project. DWR will update the allocation as hydrologic and supply conditions develop, with a final allocation expected in May 2010.

California’s water supply conditions for the State Water Project (SWP) on January 18, 2010 are as follows:

- Northern Sierra Precipitation 8-Station Index: 88 percent of average
- Lake Oroville Reservoir Storage: 46 percent of average or 30 percent of capacity
- San Luis Reservoir Storage: 66 percent of average or 49 percent of capacity

DWR conducted its first snow survey of the season on December 30, 2009. Snow water content was 85 percent of normal for the date, statewide, compared with 76 percent of normal statewide this time last year. Snow water equivalents based on electronic sensor readings are shown through January 19, 2010, in Table 1.

<b>Table 1. Snow Water Equivalents</b>	
<b>Region</b>	<b>% Average</b>
Northern Sierra	92
Central Sierra	85
Southern Sierra	97
Statewide	91
Source: DWR CDEC. 1/19/10	

Colorado River

The Lower Colorado’s water supply conditions on January 11, 2010, are as follows:

- Lower Colorado River water year precipitation to date: 80 percent of normal
- Current Basin snowpack: 76 percent of normal
- Lake Powell inflow forecast for January 2010: 81 percent of normal
- Storage in Lake Mead and Lake Powell: 43 and 59 percent full, respectively

Metropolitan Water District of Southern California Water Surplus and Drought Management Planning  
 Metropolitan Water District of Southern California (MWD)'s Water Surplus and Drought Management (WSDM) report, dated December 22, 2009, provides a summary of calendar year 2009 demands and supplies, and projections for calendar year 2010 activities.

*Calendar Year 2009 Summary*

In calendar year 2009, with implementation of MWD's Level 2 Water Supply Allocation Plan (WSAP) starting in July 1, 2009, through December 31, 2009, demands and supplies were as follows:

- Total Estimated Demand: 2.02 million acre-feet (MAF)
- Total Estimated Supplies: 1.99 MAF (includes the Water Authority's QSA deliveries)
- WSDM Estimated Storage Withdrawals: 31 thousand acre-feet (AF)

*Calendar Year 2010 Initial Supply Outlook*

In the December 22, 2009, WSDM report, MWD also provided an initial supply outlook for 2010, which is summarized below:

<b>MWD's Calendar Year 2010 Initial Supply Outlook (Acre-Feet)</b>	
<b>Estimated Demands<sup>1</sup> (Level 2 WSAP for Jan – Jun and no WSAP for Jul – Dec)</b>	<b>2,322,000</b>
<b>Available Colorado River Aqueduct</b>	<b>1,205,000</b>
• Base (includes Water Authority's QSA deliveries)	906,000
• WSDM Actions	123,000
• Five Year Actions	176,000
<b>Available State Water Project</b>	<b>601,000</b>
• Base (includes 5% Table A allocation of 96,000 AF)	116,000
• WSDM Actions	400,000
• Five Year Actions	85,000
<b>Available In-Region WSDM Storage</b>	<b>265,000</b>
<b>Remaining Supply Need</b>	<b>(251,000)</b>

Note 1: Estimated demands include 235,000 AF of extraordinary conservation under MWD's 5 –Year Supply Plan

As shown in the above table, even with utilization of the available WSDM storage of approximately 800,000 AF, there would still be an additional 251,000 AF needed to meet projected demands. For comparison, available WSDM storage in calendar year 2009, excluding emergency storage, was approximately 1.06 MAF. MWD concludes: 1) the initial five percent Table A allocation is likely to increase, and 2) MWD has the option to continue implementation of WSAP for July 1, 2010, through June 2011, if needed. MWD staff will continue to pursue resource options, including extraordinary conservation, Colorado River transactions, SWP transactions, groundwater recovery, near-term Delta actions and local resources

Los Angeles Aqueduct

The City of Los Angeles relies on three primary sources of water: the Los Angeles Aqueduct (LAA), groundwater, and water purchased from MWD. When deliveries through the LAA are reduced due to dry-conditions, the City of Los Angeles will purchase additional supplies from MWD affecting the amount of supplies potentially available to the Water Authority. Annual LAA deliveries are highly variable depending on snowfall in the Sierra Nevada. Current snowpack water content in the Eastern Sierra region is 11.2 inches, or approximately 50 percent of average, as of January 12, 2010.

Local Conditions

Monitoring conditions also includes tracking local rainfall, storage levels, and deliveries. According to the National Weather Service, the cumulative rainfall in San Diego at Lindbergh Field from July 1, 2009, through January 18, 2010, is 3.47 inches, or 79 percent of normal.

The Water Authority has approximately 41,084 AF in local carryover reservoir storage and an additional 16,117 AF in the Semitropic groundwater storage bank, as December 31, 2009. This storage is available to help lessen the impact of dry conditions in the upcoming year.

A separate Water Planning Committee memo this month summarizes the status of water deliveries and allocations for Water Authority member agencies during fiscal year 2010.

Prepared by: Lesley Dobalian, Water Resources Specialist

Reviewed by: Ken Weinberg, Director Water Resources

January 20, 2010

**Attention: Water Planning Committee**

**Water Resources Report**

**Purpose**

This report includes the following exhibits for December 2009:

- Rainfall totals for the month and water year to date
- Deliveries to Member Agencies (Exhibit A)
- Water Use by Member Agencies (Exhibit B)
- Storage Available to Member Agencies (Exhibit C)
- Firm Water Deliveries to Member Agencies (Exhibit D)
- Summary of Water Authority Member Agency Operations (Exhibit E)

<b>RAINFALL TOTALS (inches)</b>						
<b>Station</b>	<b>December 2009</b>		<b>2009-2010 WATER YEAR (October 2009 through September 2010)</b>			
	<b>Actual</b>	<b>Normal</b>	<b>Actual</b>	<b>Normal</b>	<b>Departure</b>	<b>% Normal</b>
Lindbergh Field (N.O.A.A.)	<b>2.28</b>	<b>1.31</b>	<b>2.40</b>	<b>2.82</b>	<b>(0.42)</b>	<b>85</b>
Lake Cuyamaca (Helix W.D.)	<b>9.72</b>	<b>4.39</b>	<b>11.21</b>	<b>9.48</b>	<b>1.73</b>	<b>118</b>
Lake Henshaw (Vista I.D.)	<b>7.25</b>	<b>3.19</b>	<b>8.62</b>	<b>6.45</b>	<b>2.17</b>	<b>134</b>

Sources: National Weather Service, Helix Water District, Vista Irrigation District.



# MONTHLY WATER RESOURCES REPORT

## Water Deliveries to Member Agencies

(acre-feet)

### DECEMBER 2009

AGENCY	December		12 Months Ended December	
	2009	2008	2009	2008
Carlsbad M.W.D.	552.6	1,117.7	18,070.9	20,582.8
Del Mar, City of	70.8	58.6	1,182.5	1,202.6
Escondido, City of	1,270.1	1,333.8	23,628.8	20,592.3
Fallbrook P.U.D.	510.4	679.9	15,510.5	14,464.2
Helix W.D.	2,596.1	5,365.0	33,449.8	48,629.9
Lakeside W.D.	184.4	178.1	3,587.4	4,151.5
National City, City of <sup>1</sup>	149.6	456.3	4,533.4	2,109.7
Oceanside, City of	1,329.5	1,464.1	27,978.5	31,373.5
Olivenhain M.W.D.	969.5	976.7	21,372.3	24,280.3
Otay W.D.	1,824.3	1,846.6	32,657.6	36,820.5
Padre Dam M.W.D.	614.0	684.4	13,543.8	15,386.6
Pendleton Military Reservation	3.0	8.9	68.1	84.2
Poway, City of	747.5	729.3	12,185.9	14,637.6
Rainbow M.W.D.	739.9	849.5	26,894.3	24,127.9
Ramona M.W.D.	575.4	519.6	7,038.7	9,302.2
Rincon Del Diablo M.W.D.	291.9	336.1	6,888.3	7,829.5
San Diego, City of <sup>1</sup>	12,743.5	10,165.3	193,591.0	210,015.3
San Dieguito W.D.	300.7	297.5	2,446.7	3,812.6
Santa Fe I.D.	267.0	195.0	6,447.4	8,691.6
South Bay I.D. <sup>1</sup>	1,083.6	2,556.4	17,574.9	10,083.4
Vallecitos W.D.	811.1	858.3	17,660.6	19,828.3
Valley Center M.W.D.	833.2	1,035.2	34,130.0	33,482.0
Vista I.D.	1,017.9	1,101.1	16,646.5	16,265.0
Yuima M.W.D.	30.8	58.4	2,545.4	2,399.8
Deliveries To SDCWA Agencies <sup>1</sup>	29,516.8	32,871.8	539,633.3	580,153.3
Deliveries To SDCWA Storage <sup>2</sup>	67.9	4,425.3	14,348.3	12,768.3
<b>TOTAL MEMBER AGENCY DELIVERIES</b>	<b>29,448.9</b>	<b>28,446.5</b>	<b>525,285.0</b>	<b>567,385.0</b>
Deliveries To Other Agencies	43.1	63.1	765.2	903.0
Deliveries From SDCWA Storage	0.0	0.0	0.0	0.0

<sup>1</sup> December 2009 deliveries include 67.9 AF to city of San Diego SDCWA storage accounts. December 2008 deliveries include 1,987.3 AF to Sweetwater Authority SDCWA storage account; 2,245.4 AF to SDCWA's subaccount in Helix WD's El Capitan account; and 192.6 AF to city of San Diego SDCWA accounts.

<sup>2</sup> Deliveries to SDCWA storage accounts are deducted to calculate member agency deliveries.

**MONTHLY WATER RESOURCES REPORT**  
**Estimated Water Use by Member Agency**  
 (acre-feet)

**DECEMBER 2009**

AGENCY	Imported Source S.D.C.W.A.		Local Sources						December Totals	
	2009	2008	Surface Water		Groundwater		Reclaimed Water		2009	2008
			2009	2008	2009	2008	2009	2008		
Carlsbad M.W.D.	1,047.6	1,021.7	0.0	0.0	0.0	0.0	178.6	115.4	1,226.2	1,137.1
Del Mar, City of	70.8	58.6	0.0	0.0	0.0	0.0	1.1	0.6	71.9	59.2
Escondido, City of	1,355.7	1,532.0	31.9	0.0	0.0	0.0	1.0	3.6	1,388.6	1,535.6
Fallbrook P.U.D. <sup>1</sup>	549.1	517.7	0.0	0.0	0.0	0.0	17.9	12.1	567.0	529.8
Helix W.D.	2,079.5	2,431.4	0.0	5.8	15.1	19.5	0.0	0.0	2,094.6	2,456.7
Lakeside W.D.	227.4	178.1	0.0	0.0	43.0	75.6	0.0	0.0	270.4	253.7
National City, City of <sup>2</sup>	138.1	127.5	0.0	0.0	214.6	256.8	0.0	0.0	352.7	384.3
Oceanside, City of <sup>2</sup>	1,329.5	1,464.1	0.0	0.0	281.8	142.0	0.0	0.0	1,611.3	1,606.1
Olivenhain M.W.D.	969.5	976.7	0.0	0.0	0.0	0.0	145.4	122.9	1,114.9	1,099.6
Otay W.D.	1,824.3	1,846.6	0.0	0.0	0.0	0.0	205.0	201.1	2,029.3	2,047.7
Padre Dam M.W.D.	634.6	730.5	0.0	0.0	0.0	0.0	67.7	95.7	702.3	826.2
Pendleton Military Reservation <sup>3</sup>	46.1	72.0	0.0	0.0	725.0	401.5	220.0	77.3	991.1	550.8
Poway, City of	500.1	567.8	17.5	26.8	0.0	0.0	0.0	0.0	517.6	594.6
Rainbow M.W.D.	700.9	795.5	0.0	0.0	0.0	0.0	0.0	0.0	700.9	795.5
Ramona M.W.D.	202.6	322.9	0.0	0.0	0.0	0.0	10.6	13.2	213.2	336.1
Rincon Del Diablo M.W.D.	291.9	336.1	0.0	0.0	0.0	0.0	280.4	274.6	572.3	610.7
San Diego, City of	12,803.1	13,254.2	3.6	115.1	0.0	0.0	350.0	331.7	13,156.7	13,701.0
San Dieguito W.D.	300.7	297.5	149.5	184.3	0.0	0.0	32.5	18.4	482.7	500.2
Santa Fe I.D.	267.7	196.4	200.8	247.6	0.0	0.0	68.3	68.8	536.8	512.8
South Bay I.D. <sup>2</sup>	1,000.2	897.9	0.0	0.0	0.0	214.4	0.0	0.0	1,000.2	1,112.3
Vallecitos W.D.	862.3	920.6	0.0	0.0	0.0	0.0	0.0	0.0	862.3	920.6
Valley Center M.W.D.	833.2	1,035.2	0.0	0.0	0.0	0.0	34.0	32.6	867.2	1,067.8
Vista I.D.	1,017.9	1,101.1	31.2	0.0	0.0	0.0	0.0	0.0	1,049.1	1,101.1
Yuima M.W.D.	30.8	58.4	0.0	0.0	17.3	51.0	0.0	0.0	48.1	109.4
<b>TOTAL USE</b>	<b>29,083.6</b>	<b>30,740.5</b>	<b>434.5</b>	<b>579.6</b>	<b>1,296.8</b>	<b>1,160.8</b>	<b>1,612.5</b>	<b>1,368.0</b>	<b>32,427.4</b>	<b>33,848.9</b>
<b>PERCENT CHANGE</b>	<b>-5%</b>		<b>-25%</b>		<b>12%</b>		<b>18%</b>		<b>-4%</b>	

<sup>1</sup>De Luz figures included in Fallbrook P.U.D. total.

<sup>2</sup>Brackish groundwater use included in groundwater totals.

<sup>3</sup>Pendleton's imported water use includes water delivered by South Coast Water District.

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## MONTHLY WATER RESOURCES REPORT

### Reservoir Storage

(acre-feet)

### DECEMBER 2009

MEMBER AGENCY	Reservoir	Capacity	% of		% of		Change During Month
			DECEMBER 2009	Capacity	DECEMBER 2008	Capacity	
Carlsbad M.W.D.	Maerkle	600	50	8%	448	75%	(481)
Escondido, City of <sup>1</sup>	Dixon	2,606	2,412	93%	2,168	83%	113
	Wohlford	6,506	1,994	31%	1,790	28%	24
<b>Subtotal</b>		<b>9,112</b>	<b>4,406</b>	<b>48%</b>	<b>3,958</b>	<b>43%</b>	<b>137</b>
Fallbrook P.U.D.	Red Mountain	1,335	917	69%	130	10%	(20)
Helix W.D.	Cuyamaca	8,195	676	8%	913	11%	125
	Jennings	9,790	6,177	63%	9,076	93%	423
<b>Subtotal</b>		<b>17,985</b>	<b>6,853</b>	<b>38%</b>	<b>9,988</b>	<b>56%</b>	<b>548</b>
Poway, City of	Poway	3,320	3,078	93%	3,132	94%	210
Rainbow M.W.D.	Beck	625	395	63%	249	40%	159
	Morro Hill	465	116	25%	139	30%	(103)
<b>Subtotal</b>		<b>1,090</b>	<b>511</b>	<b>47%</b>	<b>388</b>	<b>36%</b>	<b>56</b>
Ramona M.W.D.	Ramona	12,000	2,824	24%	3,789	32%	326
San Diego, City of <sup>2</sup>	Barrett	37,947	24,353	64%	25,666	68%	215
	El Capitan	112,807	45,102	40%	46,594	41%	756
	Hodges	33,550	13,628	41%	19,916	59%	1,846
	Lower Otay	49,510	25,223	51%	24,641	50%	23
	Miramar	7,185	4,370	61%	5,570	78%	(191)
	Morena	50,207	5,281	11%	6,814	14%	162
	Murray	4,818	3,951	82%	4,001	83%	(280)
	San Vicente	90,230	22,640	25%	32,860	36%	996
	Sutherland	29,685	3,512	12%	7,032	24%	182
<b>Subtotal</b>		<b>415,939</b>	<b>148,060</b>	<b>36%</b>	<b>173,094</b>	<b>42%</b>	<b>3,709</b>
San Dieguito W.D./Santa Fe I.D.	San Dieguito	883	505	57%	460	52%	10
Sweetwater Authority	Loveland	25,400	11,110	44%	9,935	39%	178
	Sweetwater	30,079	4,380	15%	5,344	18%	328
<b>Subtotal</b>		<b>55,479</b>	<b>15,490</b>	<b>28%</b>	<b>15,279</b>	<b>28%</b>	<b>506</b>
Valley Center M.W.D.	Turner	1,612	1,563	97%	1,612	100%	213
Vista I.D. <sup>3</sup>	Henshaw	51,774	4,327	8%	5,641	11%	1,023
<b>MEMBER AGENCY TOTAL WATER IN STORAGE</b>		<b>571,129</b>	<b>188,584</b>	<b>33%</b>	<b>217,919</b>	<b>38%</b>	<b>6,236</b>
SDCWA Accounts (Source: CWA Monthly Storage Reports)	El Capitan		14,526		11,643		(70)
	Lower Otay		6,623		7,454		(60)
	San Vicente		13,095		13,558		(2)
	Sweetwater		7,095		3,747		(69)
<b>TOTAL WATER IN STORAGE</b>		<b>571,129</b>	<b>223,300</b>	<b>39%</b>	<b>246,867</b>	<b>43%</b>	<b>6,095</b>
<b>OTHER AGENCIES</b>							
Metropolitan Water District	Skinner	44,264	36,605	83%	35,744	81%	184
	Diamond Valley	800,000	384,278	48%	409,878	51%	125
State Water Project	Oroville	3,521,797	1,029,538	29%	981,102	28%	(107,023)
<b>TOTAL OTHER WATER IN STORAGE</b>		<b>4,366,061</b>	<b>1,450,421</b>	<b>33%</b>	<b>1,426,724</b>	<b>33%</b>	<b>(106,714)</b>

<sup>1</sup> City of Escondido storage does not include water allocated to Escondido Mutual Water Company or its rights to a portion of the unallocated water in Lake Henshaw.

<sup>2</sup> Includes reserves subject to City's outstanding commitments to the San Dieguito W.D., and the California American Mutual Water Company. SDCWA has storage contracts in City of San Diego reservoirs in the amount of 40,000 a.f. if capacity is available.

<sup>3</sup> Vista I.D. storage includes both allocated and unallocated water in Lake Henshaw.

**MONTHLY WATER RESOURCES REPORT**  
**Estimated Tier 1 Deliveries to Member Agencies**  
 (acre-feet)

**Through December 2009**

<b>AGENCY</b>	<b>CY2009 Tier 1 Threshold<sup>1</sup></b>	<b>CYTD Firm Deliveries<sup>2</sup></b>	<b>% of Tier 1 Threshold</b>
Carlsbad M.W.D.	18,228.5	17,500.1	96.0%
Del Mar, City of	1,408.3	1,182.5	84.0%
Escondido, City of	23,496.9	22,228.2	94.6%
Fallbrook P.U.D.	11,716.9	12,617.4	107.7%
Helix W.D.	38,421.4	29,286.4	76.2%
Lakeside M.W.D.	4,718.2	3,587.4	76.0%
Oceanside, City of	28,848.1	27,978.5	97.0%
Olivenhain M.W.D.	18,876.4	20,975.6	111.1%
Otay W.D. (excludes Tijuana deliveries)	32,173.0	32,657.6	101.5%
Padre Dam M.W.D.	14,310.8	12,743.3	89.0%
Pendleton M.R./South Coast	1,141.3	833.3	73.0%
Poway, City of	13,563.8	12,148.2	89.6%
Rainbow M.W.D.	23,470.5	23,393.6	99.7%
Ramona M.W.D.	8,067.0	4,927.5	61.1%
Rincon Del Diablo M.W.D.	7,307.0	6,615.4	90.5%
San Diego, City of	215,438.4	192,392.8	89.3%
San Dieguito W.D.	4,692.0	2,446.7	52.1%
Santa Fe I.D.	7,882.8	6,395.7	81.1%
Sweetwater Authority	13,094.7	15,252.1	116.5%
Vallecitos W.D.	14,476.9	16,862.7	116.5%
Valley Center M.W.D.	24,801.0	22,820.6	92.0%
Vista I.D.	17,550.5	16,582.1	94.5%
Yuima M.W.D.	94.0	107.0	113.8%
<b>MEMBER AGENCY TOTAL</b>	<b>543,778.4</b>	<b>501,534.7</b>	<b>92.2%</b>
<b>Less: QSA deliveries calendar year to date</b>		<b>(140,188.0)</b>	
<b>Less: PCWA water transfer</b>		<b>(15,520.0)</b>	
<b>Plus: CWA purchases for own account<sup>3</sup></b>		<b>10,065.6</b>	
<b>Estimated Tier 1 deliveries calendar year to date</b>		<b>355,892.3</b>	<b>65.4%</b>

<sup>1</sup>Tier 1 threshold is equal to all firm deliveries up to 90% of a member agency's historic maximum year firm demand.

<sup>2</sup>Firm deliveries are net of IAWP certifications received.

<sup>3</sup>Includes forced deliveries and temporary carryover storage agreements with Helix WD and Sweetwater Authority.

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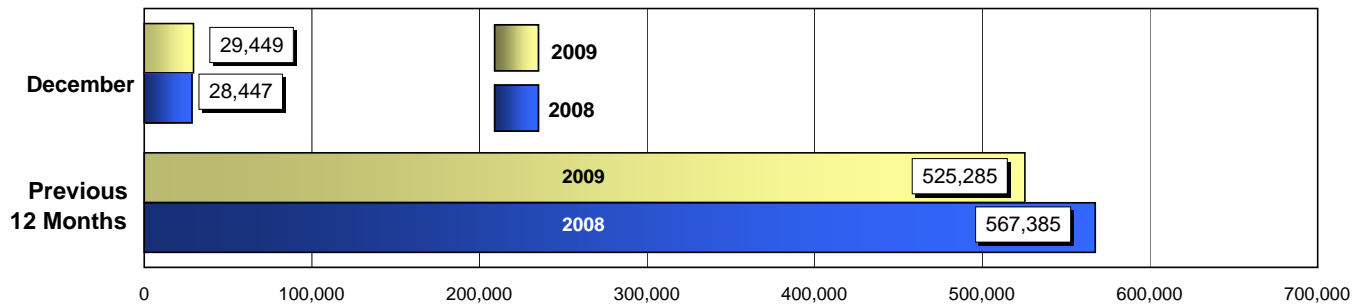
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# MONTHLY WATER RESOURCES REPORT

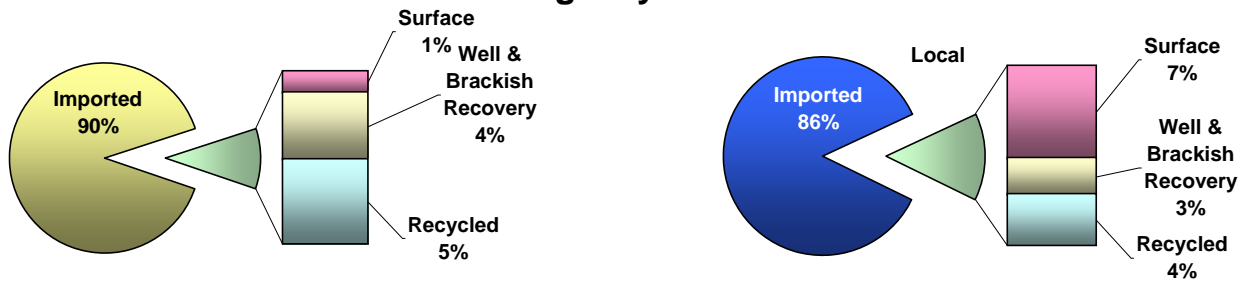
## Summary of Water Authority Member Agency Operations (acre-feet)

DECEMBER 2009

### Member Agency Deliveries



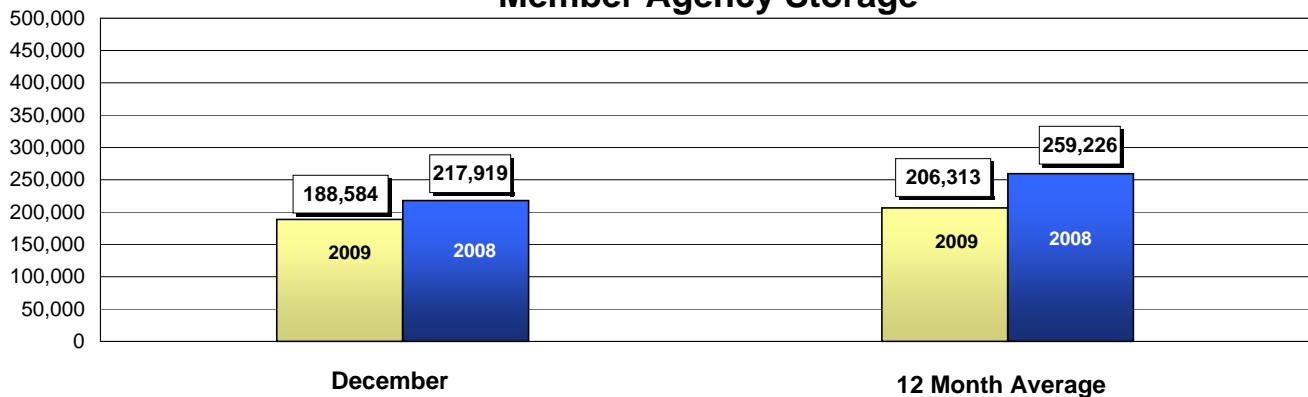
### Member Agency Water Use



DECEMBER 2009

Previous 12 Months

### Member Agency Storage



December

12 Month Average

