



# THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

## GENERAL MANAGER'S MONTHLY ACTIVITY REPORT NOVEMBER 2014

November 30, 2014

This report identifies the actions and activities taking place during the month that support the objectives of the General Manager's Fiscal Year 2014/15 Business Plan.

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## DIVERSITY

### Native American Heritage Month

Metropolitan's Native American Alaskan Native Employees Association hosted a number of events paying tribute to the rich heritage, art and culture of Native Americans.

The events during the month included a Navajo Eagle Spirit dance in the courtyard along with a display of employees' native heritage and art collections, a workshop on Native American meditation, and a brown bag session on the Gabrielin-Tongva tribe culture and history. The activities also included a special Native American invocation at the Metropolitan Board of Directors meeting. Additionally, the Courtyard Café offered Native American dishes including the famous Indian Fry Bread. Below are some photographs from the month's events.



Jacob Gutierrez speaking on *A Tongva Story, Keepers of Indigenous Ways*



Navajo Eagle Spirit Dance

# BAY DELTA INITIATIVES

## GM STRATEGIC PRIORITY: COMPLETE BAY DELTA CONSERVATION PLAN

Continue to provide leadership in the process to restore the reliability of the State Water Project with the goal of completing the Environmental Impact Report/Environmental Impact Statement within the upcoming fiscal year reaching decisions on the project.

### **Complete the final Bay Delta Conservation Plan and the associated Environmental Impact Report/ Environmental Impact Statement.**

On November 14, the California State Treasurer's Office released The *Bay Delta Conveyance Facility: Affordability and Financing Considerations*, a study of affordability for the water facility construction proposed in the Bay Delta Conservation Plan. This independent study, requested by the California Natural Resources Agency, was commissioned by the California Debt and Investment Advisory Commission, chaired by State Treasurer Bill Lockyer. The study finds that the cost of the Delta conveyance facility is within the range of urban and agricultural users' capacity to pay.

## CORE: BAY DELTA SOLUTIONS

Develop near- and long-term solutions that enhance the Delta ecosystem, improve water supply reliability, and protect water quality.

### **Develop near-term measures, compatible with a long-term Delta solution, to improve water supply reliability and water quality, and facilitate protection and enhancement of Delta ecosystems and associated species.**

State Water Resources Control Board—Staff continues to participate in the State Water Resources Control Board's (SWRCB) process to curtail water use of post-1914 water right holders in the Delta and Sacramento and San Joaquin River watersheds, in response to ongoing drought conditions. On November 12, the SWRCB lifted water right curtailments for post-1914 water rights with a priority date earlier than January 1954. The rationale provided for this action was based on reduced diversion demands and the switch in diversion demand from direct diversion to storage. The SWRCB will be monitoring weather forecasts and stream gages to determine if curtailments should be re-imposed in the future or if lifting of remaining curtailments is appropriate. Staff also continues to work with state and federal water contractors to consider actions that would be needed to protect the project's stored water.

Turbidity Forecasting—The Delta Conditions Team (made up of state and federal water contractors, Contra Costa Water District, DWR, U.S. Bureau of Reclamation, fishery agencies and nongovernmental organizations) held a kick-off meeting for the 2014-15 smelt season this month. DWR operations staff will again provide modeling support to evaluate first flush events and the potential to control entrainment of delta smelt through pre-emptive export curtailments. The Delta Conditions Team heard presentations from the U.S. Fish and Wildlife Service staff on the analysis of last year's trawl data from Jersey Point and Chipps Island and how these data can be used to assess entrainment potential.

### **Ensure that Delta emergency response measures are implemented, including actions to develop a fresh water pathway after a major emergency event in the Delta.**

Delta Emergency Preparedness—Staff continues to coordinate with DWR to make preparations for implementation of an emergency freshwater pathway after a major emergency event in the Delta. These actions include levee improvements for Middle River freshwater pathway levees and the development of emergency materials stockpiles in the Delta to facilitate levee repair response in an emergency.

DWR has advised that a major materials transfer and support facility construction contract is being readied for award in Fiscal Year 2014/15 at their land- and water-based emergency storage sites at Rio Vista and Stockton. An additional contract is being prepared for award in Fiscal Year 2014/15 involving procurement and delivery of large scale pipe pile and sheet pile for closure of deep levee breaches. A total of \$80 million has been set aside from Proposition 1E funding for emergency materials and facilities to support Delta emergency operations.

The Delta Stewardship Council is in the process of developing a Delta Levees Investment Strategy that considers the water supply, habitat enhancement, and statewide economic benefits of Delta levees, and the value of the Delta as a unique place. The process includes use of a methodology to support levees prioritization funding decisions. The strategy will focus on ranking benefits and level of protection afforded by levee projects versus the ranking of islands.

# BUSINESS TECHNOLOGY

## CORE: BUSINESS PROCESSES AND INFORMATION TECHNOLOGY

Advance continuous business process improvements to improve effectiveness and efficiency while striving for innovation, flexibility, and integration with technology.

**Implement innovative solutions for customers that will positively impact their business operations through improved quality, speed, simplicity, and cost improvements.**

Information Technology Strategic Plan Update (ITSP)—The ITSP seeks to address Metropolitan's changing business and technology needs through a comprehensive assessment of current technology and the development of initiatives that will guide continued IT investment. An IT survey and vision workshops were conducted with IT staff and managers to gather input and engage them in the IT strategic planning process.

Cloud Computing Technology and Collaborative Work Environment Solutions—

- In partnership with Water Resources Management, staff commenced a pilot to evaluate a software-as-a-service cloud solution for managing WRM's agreements. At the conclusion of the pilot phase, stakeholders will assess whether or not this meets the user requirements.
- Staff attended a Microsoft in Government workshop to evaluate Microsoft's cloud offerings and a demonstration of e-Discovery capabilities for SharePoint Online.
- Staff created new collaborative work sites using SharePoint that include:
  - \* Real Estate Portfolio issue tracking; team sites for Business Applications Support Team and Technical Control Team;
  - \* On-Site Retrofit pilot site for Water Resource Management; and
  - \* Prototype document search and retrieval site for the Annexations Team.

**Upgrade and refurbish Information Technology applications and infrastructure to ensure system reliability and performance levels that meet customer needs.**

Accounts Payable Imaging System—This month, Accounts Payable began using a new automation system, AP Imaging, that reduces labor time and storage costs in processing Metropolitan's vendor invoices. The new software application features an electronic repository to satisfy Metropolitan's records retention policy of storing invoices for six years.

Disaster Recovery Exercise—As part of an ongoing effort to refine Metropolitan's ability to recover critical IT systems in the event of a disaster, staff continued to conduct detailed planning for an upcoming disaster recovery exercise involving the Oracle platforms and ProjectWise/CAD applications. This month's exercises will include developing and validating IT recovery procedures and identifying opportunities for process refinements. These exercises will test our "fail-over" capability and bring up the selected system/application by using Metropolitan's remote Disaster Recovery site.

Metropolitan's Emergency Operations Center—As primary responders, IT staff participated in the Rolling Thunder Functional Exercise held at Metropolitan's EOC in Eagle Rock. The exercise simulated a full EOC activation in response to a severe weather event in the Southern California area.

Bay Delta Conservation Plan—Staff continues to support the BDCP by initiating an assessment of the program's IT needs. In November, staff worked in conjunction with Metropolitan's consultant to interview key stakeholders at the California Department of Water Resources and Design Construction Enterprise group as part of the assessment.

**Deploy security technologies to enhance Metropolitan's cyber security position.**

Cyber Security Matters—Cyber security tools implemented this month include configuration and patch management tools that will assist in assessing vulnerability within Metropolitan's Supervisory Control and Data Acquisition system. Activities included network mapping for connectivity assurance and systems functioning.

Review of cyber security legislation applicable to Metropolitan is on the forefront. Staff is currently evaluating the National Institute of Standards and Technology Cyber Security Framework that aims to help organizations in addressing a variety of cyber security challenges.

# BUSINESS TECHNOLOGY

## CORE: BUSINESS PROCESSES AND INFORMATION TECHNOLOGY

Advance continuous business process improvements to improve effectiveness and efficiency while striving for innovation, flexibility, and integration with technology.

### **Maintain an effective Business Outreach Program for regional, small businesses and veterans to ensure broad participation and competitive costs.**

Metropolitan's Business Outreach staff supported:

- Orange County Black Chamber of Commerce Veterans Day Program - Tribute to veterans and Medal of Honor award recipients from the Korean War
- The American Indian Chamber of Commerce of California, Anaheim – In celebration of Native American Month
- Orange County Transportation Agency 2014 Small Business Conference, Anaheim
- Southern California Gas Company, Downey - Turning Contacts Into Contracts for Veterans
- Southwest Water and Energy Consortium, Los Angeles - Consortium of public-private partnerships working together to share resources, expertise and knowledge to encourage economic development
- The Energy Network, Los Angeles – Public agencies taking action to save energy in partnership with the County of Los Angeles and the California Public Utilities Commission
- Black Business Association 12th Annual Procurement Exchange Summit, Los Angeles
- Long Beach City College and Goldman Sachs 10,000 Small Business Program - Small Business Growth in America, Long Beach
- American Indian Chamber of Commerce Advisory Council Meeting, Anaheim

### Activities

- On November 14, Director Dick, Orange County Municipal Water District and Metropolitan staff supported the veteran business community at the State of California's Disabled Veteran Business Alliance event. The event, *A Salute to Veterans*, honored disabled veterans, Medal of Honor Recipients, and men and women who recently returned from deployment.
- Metropolitan staff supported Riverside County's veteran community by participating in the Third Annual Veterans Small Business Conference and Job Fair in Perris.
- In partnership with Metropolitan member agencies Torrance and West Basin Municipal Water District, staff

presented *Bringing Public Sector Opportunities to Your Community* on November 6 in Torrance. Board Members Lefevre and Gray, city of Torrance Mayor Deer, and Torrance city council members welcomed over 100 business owners to the event.

### **Simplify access to business information.**

Metropolitan's Web Redesign Project—In partnership with External Affairs and consultants, staff continued to support and test the redesign of Metropolitan's website.

### **Implement Business Technology's comprehensive workforce succession planning and employee development programs.**

Business Technology partnered with Human Resources to implement the Administrative Assistant and Analyst Development Program to improve the competitiveness of Business Technology employees in these classifications. A program satisfaction survey was issued this month to gather participants' feedback and help measure program effectiveness. The survey results are being compiled and analyzed.

In another partnership with Human Resources, Business Technology conducted a third training course, *Metropolitan's Water Supply and Financials*. At a high level, the two-hour course takes participants through Metropolitan's current supply, drought management, and budget/financial conditions.

# BUSINESS TECHNOLOGY

## CORE: BUSINESS PROCESSES AND INFORMATION TECHNOLOGY continued...

### **Foster a culture of innovation.**

#### H2O TechConnect Community

- Staff participated in the ARCS Foundation's Achievement Rewards for College Scientists event on November 7 in Los Angeles. The foundation invests in outstanding U.S. scholars completing degrees in science, engineering, and medical research.
- Staff also attended the first SoCal MakerCon on November 8 at the Pomona Fair Grounds, with the goal of supporting new water and energy prototypes and innovations that may benefit Metropolitan. These maker movements offer innovative new insights into local and global manufacturing, design, workforce development, education and creative culture.
- The Governor's Office of Business and Economic Development invited Metropolitan staff to speak on water innovation and technology to water technology businesses from Poland and representatives from the Polish Consulate in Los Angeles. The Governor's Office is introducing the Polish delegation to water agencies across California to encourage collaboration and promote economic development through the sharing of technology and innovation

### **Efficiently maintain and operate Metropolitan's Headquarters building, the Diamond Valley Lake Visitor Center, and the Diamond Valley Lake Education Center.**

#### Headquarters Building Maintenance Projects

- Replacement of Fire Control Panel—Due to a significant change in the scope of work required by the Los Angeles Fire Department, replacement of the Fire Control Panel is being deferred to FY 2015/16.
- Courtyard—Replacement of 45 broken stone tiles and 6,000 linear feet of epoxy caulking was completed in time for the dedication of the courtyard.
- Upgrade of the Central Plant Controls—The obsolete Siemens plant controls will be replaced with Delta controls, making it possible for the Central Plant to communicate using the BACnet building automation system.

### **Continue innovative sustainability efforts in business practices, including Spring Green, Our Legacy Newsletter, the rideshare program, energy conservation and recycling efforts.**

Energy Conservation Initiatives—The findings of the energy audits conducted at the Headquarters facility have been compiled by the consultant in a technical report. The report identifies potential efficiency measures and estimated energy savings. Staff has reviewed the list and selected specific measures for a detailed engineering analysis to be performed by Base Energy, Inc.

8th Annual Spring Green Expo—Staff is creating a video focusing on the ECO Innovators' Showcase, a large component of the Spring Green Expo, which will be distributed to professors throughout Southern California as a resource for increasing student recruitment.

### **Seek fair and equitable contract agreements with Member Agencies, federal, and state governments to maintain a long term sustainable wholesale water resource to Southern California.**

#### Annexations

- This month, staff received the boundary change statements from each of Metropolitan's member agencies in digital format. This streamlined procedure has reduced time delays associated with the use of postal service from previous years.
- Per Administrative Code § 3300(b), staff has updated the per acre annexation charge for calendar year 2015 to \$5,062 per acre.

# CHIEF FINANCIAL OFFICER

## CFO PRIORITY: SUCCESSION PLANNING

Focus on planning, management, and employee development to ensure continuity of duties and services. Work to ensure that employees and managers are prepared to effectively carry out their roles as a result of changes in workplace business needs, technologies and increased retirements.

### **Manage succession in preparation for anticipated retirements.**

- The Finance Training Program was initiated in November with a presentation by Human Resources staff on *Reigniting Your Career*.
- Selected staff participated in a presentation skills class led by an external instructor.

## CFO PRIORITY: BUSINESS CONTINUITY

Facilitate district-wide planning and training to prepare employees and managers to effectively carry out critical roles and functions thus ensuring continuity of operations in the event of a disaster.

### **Manage Business Continuity Program in accordance with Operating Policy A-06.**

Completed and distributed Business Impact Analysis supplemental reports for each group to facilitate development of group specific recovery plans for the update of Metropolitan's Business Continuity Plan by the end of the fiscal year. Completed selection criteria for possible implementation of a Business Continuity Management tool to guide development and maintenance of the Business Continuity Plan.

## CORE: FINANCIAL MANAGEMENT

Manage Metropolitan's finances in an ethical and transparent manner and provide consistent, clear, and timely financial reporting. Update Metropolitan's capital financing plans and work with rating agencies and investors to communicate Metropolitan's financial needs, strategies, and capabilities thus ensuring Metropolitan has cost-effective access to capital markets and the ability to finance ongoing future needs. In addition, actively manage Metropolitan's short term investment portfolio to meet ongoing liquidity needs and changing economic environments.

### **Record and report the financial activities of Metropolitan in a timely, accurate, and transparent manner to the Board, executive management, member agencies, and the financial community.**

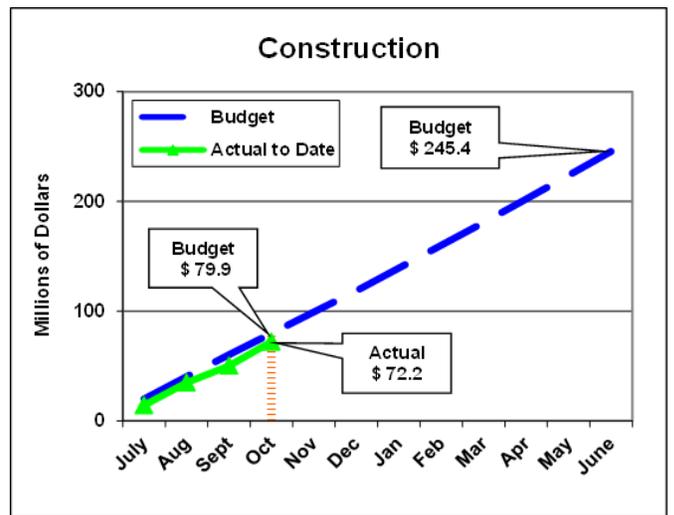
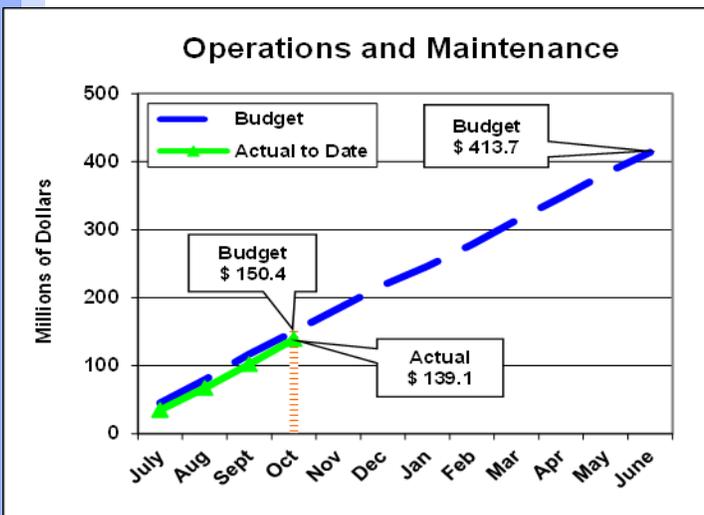
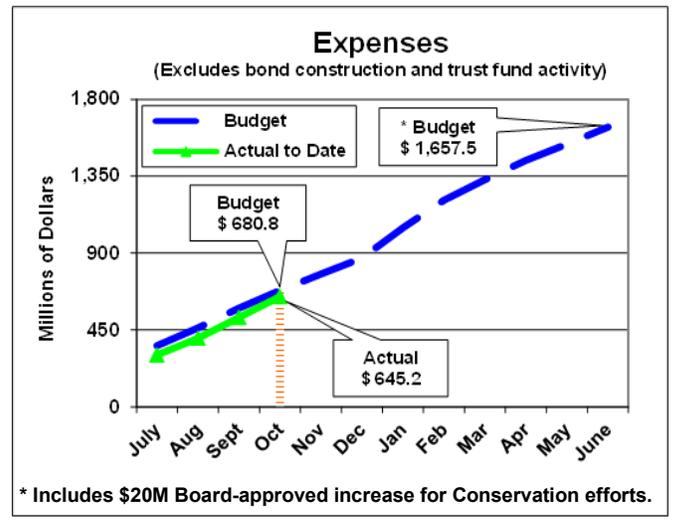
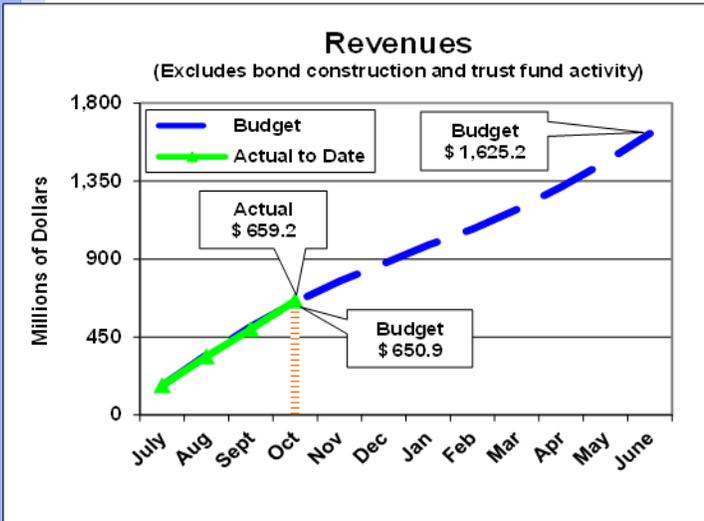
Financial activities were recorded in a timely and transparent manner.

### **Prudently manage the investment of Metropolitan's funds in accordance with policy guidelines and liquidity considerations.**

Staff continues to provide the necessary liquidity for Metropolitan's operational and capital expenditures, with no loss of principal, and no policy violations, while generating a portfolio return that exceeded the benchmark.

# CHIEF FINANCIAL OFFICER

## FINANCIAL SUMMARY AS OF OCTOBER 31, 2014



# ENGINEERING SERVICES

## CORE: INFRASTRUCTURE RELIABILITY

Manage Board-authorized projects in the Capital Investment Plan and collaborate with the Water System Operations Group to identify and address system vulnerabilities to ensure reliability of the region's water treatment and delivery infrastructure. In addition, coordinate closely with WSO to integrate project planning and facility assessment efforts with near-term actions and planned shutdowns.

**Manage and complete Board-authorized projects within the CIP to ensure the reliable delivery of water to Metropolitan's member agencies.**

### Distribution System Reliability Program

This program maintains reliable water deliveries through specific repair and rehabilitation projects on Metropolitan's pipelines, reservoirs, and control structures. Recent activities include the following:

- Orange County Feeder Relocation in the City of Fullerton—This project relocates 1,100 feet of the Orange County Feeder to accommodate major street improvements planned by the city of Fullerton. Construction is 20 percent complete and is scheduled to be complete by May 2015.
- San Diego Pipeline No. 3 Piping Modifications—This project modifies 19 blowoff structures on San Diego Pipeline No. 3 and converts them into pumping wells. Construction commenced during a 52-day shutdown of the pipeline starting in October 2014. Construction is 60 percent complete and is scheduled to be complete by December 2014.
- Etiwanda Hydroelectric Plant Rehabilitation—This project rehabilitates two deteriorated needle valves and coats the internal components of the turbine at the Etiwanda Hydroelectric plant. Construction is 85 percent complete and is scheduled to be complete by December 2014.
- Lakeview Pipeline/Inland Feeder Intertie—This drought-response project constructs an intertie from the Inland Feeder to the Lakeview Pipeline so that water stored in Diamond Valley Lake can serve as a backup supply for the Mills plant. The work is being completed in two phases. Construction of the intertie and installation of a surge protection system at the Perris Pumpback Facility are complete. Installation of a steel liner for one mile within the Bernasconi Tunnel is 20 percent complete and is scheduled to be complete by May 2015. *(see photos right)*



Lakeview—Access manhole installation at the intertie.



Lakeview—Bulkhead installation for slurry placement on intertie conduit.



Lakeview—Valve structure wall reinforcement.

# ENGINEERING SERVICES

## CORE: INFRASTRUCTURE RELIABILITY continued.....

**Manage and complete Board-authorized projects within the CIP to ensure the reliable delivery of water to Metropolitan's member agencies.**

### Prestressed Concrete Cylinder Pipe (PCCP) Rehabilitation Program

This program enhances the reliability of Metropolitan's water distribution system and reduces the risk of costly emergency repairs of PCCP lines. Recent activities include the following:

- Second Lower Feeder Near-Term Repairs at Site 3—This project lines 4,900 feet of existing PCCP segments with a steel liner. The shutdown commenced this month. Construction is 15 percent complete and is scheduled to be complete by April 2015.
- Second Lower Feeder PCCP Rehabilitation—This project lines 28 miles of existing PCCP with a steel liner. Preliminary design is approximately 80 percent complete and is scheduled to be complete by January 2015. The notice of preparation of an environmental impact report was issued this month.

### Right of Way and Infrastructure Protection Program

This program performs needed site improvements within the distribution system such as erosion protection for pipelines and access roads. It also addresses right-of-way issues such as access easements and third-party encroachments, and obtains long-term programmatic environmental permits to cover the entire conveyance and distribution system.

- Orange County and Western San Bernardino County Operating Regions—Final design of improvements is five percent complete and is scheduled to be complete by December 2015. The Notice of Preparation of environmental documentation for the Western San Bernardino County operating region was released this month.
- Los Angeles County Operating Region—Preliminary design of improvements is five percent complete and is scheduled to be complete by August 2015. The Notice of Preparation of environmental documentation for the Los Angeles County operating region is scheduled to begin drafting in January 2015.
- Riverside/San Diego County operating region—Preliminary design of improvements is scheduled to begin in January 2015.

### Colorado River Aqueduct (CRA) Reliability Program

This program maintains the reliability of Metropolitan's Colorado River Aqueduct delivery system. Recent activities include the following:

- CRA Over-Current Relay Replacement—This project replaces over-current relays at Intake and Gene Pumping Plants. These relays protect transmission lines and pump equipment from fault currents. Final design is 80 percent complete and is scheduled to be complete by January 2015.
- 6.9 kV Switch House Building Seismic Upgrades—This project performs seismic upgrades to the 6.9 kV switch houses at all five CRA pumping plants. The switch houses contain electrical equipment that is used to start and stop the main pumping plant motors. Final design of the upgrades was authorized by Metropolitan's Board in November 2014.
- Colorado River Aqueduct Main Pump Reliability—This project evaluates the condition of major equipment and systems at each of the five CRA pumping plants.
- Iron Mountain Vehicle Service Center Rehabilitation—This project rehabilitates the existing vehicle service center located at Iron Mountain Pumping Plant. Final design is 98 percent complete and is scheduled to be complete by December 2014.
- Whitewater Siphon Protection—This project improves control structures that protect the CRA's Whitewater Siphons from erosion by the Whitewater River. Final design is 70 percent complete and is scheduled to be complete by February 2015.
- Desert Wastewater System Replacement—Final design for Hinds and Eagle Mountain Pumping Plants was completed in October 2014.

# ENGINEERING SERVICES

## CORE: INFRASTRUCTURE RELIABILITY continued....

**Manage and complete Board-authorized projects within the CIP to ensure the reliable delivery of water to Metropolitan's member agencies.** *Continued....*

### Treatment Plant Reliability Program

This program was initiated to maintain reliability and improve the operating efficiency of Metropolitan's five water treatment plants through specific improvement projects. Recent activities include the following:

#### Weymouth Plant

- Washwater Reclamation Plant Upgrades—This project replaces deteriorated equipment in the Weymouth plant's washwater reclamation plant. Construction is 88 percent complete and is scheduled to be complete by June 2015.
- Filter Building Seismic Upgrades—This project strengthens Filter Buildings Nos. 1 and 2 in order to withstand a major seismic event. Construction is 95 percent complete and is scheduled to be complete by December 2014.
- East Washwater Tank Seismic Upgrades—This project upgrades the Weymouth plant's east washwater tank to increase its capability to withstand a major seismic event. Notice to Proceed was issued this month and construction is scheduled to commence in December 2014.

#### Diemer Plant

- Yorba Linda Power Plant Turbine Replacement—This project replaces the existing Pelton wheel hydraulic turbine with a Francis turbine capable of operating under post-ORP hydraulic conditions, and modifies the electrical configuration to use the power on-site to meet energy demands of the Diemer plant. Construction is 50 percent complete and is scheduled to be complete by August 2015.

#### Jensen Plant

- Electrical Upgrades, Stage 1—This project replaces electrical equipment, provides backup in the event of component failures, and upgrades the electrical system to be consistent with current codes and industry practices. Final design is 73 percent complete and is scheduled to be complete by October 2015.

Replacement of the UPC-7 Reliability Upgrade is 10 percent complete and is scheduled to be complete by February 2015.

- Module No. 1 Filter Surface Wash Upgrades—This project replaces the existing surface wash system with a new fixed nozzle system. During filter backwashing, the top surface of a filter bed is sprayed with water to break the solids that build up during the filtration process. Construction is 87 percent complete and is scheduled to be complete by February 2015.
- Washwater Tank Seismic Upgrades—This project upgrades two washwater tanks to increase their capability to withstand a major earthquake. Construction is 15 percent complete and is scheduled to be complete by April 2015.
- Jensen Solids Transfer System—This project enables Metropolitan to use four solids lagoons on the grounds of the Los Angeles Aqueduct Filtration Plant. The initial construction contract is installing 7,600 feet of solids transfer piping and a utility crossing structure across Bull Creek Channel. Construction is 10 percent complete and is scheduled to be complete by May 2015.
- LADWP Lagoon Refurbishment—This project rehabilitates four LADWP lagoons that will be used by Metropolitan. Final design is complete, and a request to the Board for award of a construction contract is planned for January 2015.

#### Mills Plant

- Electrical Upgrades, Stage 1—This project replaces electrical equipment, provides backup in the event of component failures, and upgrades the electrical system to be consistent with current codes and industry practices. Final design is 92 percent complete and is scheduled to be complete by January 2015.

# ENGINEERING SERVICES

## CORE: INFRASTRUCTURE RELIABILITY continued....

**Manage and complete Board-authorized projects within the CIP to ensure the reliable delivery of water to Metropolitan's member agencies.** *Continued....*

### Water Quality/Oxidation Retrofit Program

This program adds ozonation facilities which reduce disinfection by-products and improve water quality at Metropolitan's five water treatment plants. Recent activities include the following:

#### Weymouth Oxidation Retrofit Project

- Main ORP Facilities—The Weymouth plant is the final facility to be upgraded under the ORP. Construction of the ozonation system is 63 percent complete and is scheduled to be complete by late 2016.
- Weymouth ORP Chemical Facilities—These chemical systems are needed for integration of the upcoming ozonation system into the Weymouth plant's treatment process. Final design of the sulfuric acid system is complete. Final design of the hypochlorite facilities is 91 percent complete and is scheduled to be complete by April 2015.

#### Diemer Oxidation Retrofit Project

- Diemer ORP—Construction of the main ozonation facilities is complete, and the 42-day operational test was successfully completed in May 2014. ORP completion activities are 65 percent complete. These activities include modification of life safety systems; integration of plant control, communication, and chemical systems; calibration and testing of ozone process instruments; and preparation of operational schematics for use by plant staff. Final design of the Diemer revegetation project is 99 percent complete

# EXTERNAL AFFAIRS

## **STRATEGIC PRIORITY: EDUCATE THE PUBLIC AND STAKEHOLDERS ON CRITICAL WATER SUPPLY CONDITIONS AND CRITICAL WATER MANAGEMENT DECISIONS**

External Affairs efforts will focus on educating the public, legislative leaders, government officials, non-governmental organizations, and other stakeholders on critical water supply conditions and critical water management decisions.

### **Secure support for water bond legislative proposals that meet Board-adopted principles and educate the public about the bonds' impacts to water resources.**

On November 18, Assistant General Manager/Chief Administrative Officer Ivey participated on a water bond panel at the Coro Foundation 5th Annual Water Conference in Los Angeles along with Senator Fran Pavley and California Department of Water Resources Director Mark Cowin. The event also honored Assemblyman Anthony Rendon, Chair of the Assembly Water, Parks and Wildlife Committee.

During the month of November, staff provided presentations on the water bond, the drought, BDCP, and Southern California water supply conditions to the Arcadia Chamber of Commerce and the La Verne Chamber of Commerce.

Set up on-camera interview with General Manager Kightlinger and KABC-TV reporter for story about state voter approval of the Proposition 1 water bond measure and how the bond money will be used on various water projects in Southern California.

# EXTERNAL AFFAIRS

## **STRATEGIC PRIORITY: EDUCATE THE PUBLIC AND STAKEHOLDERS ON CRITICAL WATER SUPPLY CONDITIONS AND CRITICAL WATER MANAGEMENT DECISIONS**

External Affairs efforts will focus on educating the public, legislative leaders, government officials, non-governmental organizations, and other stakeholders on critical water supply conditions and critical water management decisions.

### **Expand and enhance Metropolitan's outreach to key stakeholder groups in Southern California, statewide, nationally and internationally in support of strategic priorities.**

- On November 1, Metropolitan participated in Mujeres de la Tierra's first annual awards ceremony, which honored Congresswoman Grace Napolitano and Senate President Pro Tempore Kevin de Leon.
- On November 4, staff participated in California Lutheran University's Water Leaders' Breakfast Summit. Calleguas General Manager Susan Mulligan and other panelists discussed the impacts of the drought and actions Calleguas and Metropolitan are taking to meet demand while encouraging conservation.
- On November 5, staff provided a presentation on *Water Allocations and Supply – 2015 and Beyond* at the Building Industry Association of Southern California Annual Building Industry Show.
- On November 5, Metropolitan staff presented a water supply and drought presentation to the Lions Club of Garden Grove.
- On November 7-9, staff attended the California Contract Cities Association's Water Summit, which was held in Coronado and sponsored by Metropolitan. Over 400 city council members and city managers attended to learn about the impacts of the drought and what their cities could be doing to promote water use efficiency and conservation.
- On November 20, Metropolitan participated in the League of Cities Inland Empire Division Dinner. Metropolitan was recognized for its ongoing support of the League before the more than 100 city and county elected officials in attendance.

### **Inform Southern Californians about the drought/water supply conditions and how they can help improve water supply reliability through conservation actions and support for water supply projects.**

- Metropolitan's Water Conservation and Awareness advertising campaign ended on October 28; however, Metropolitan continued to work with the media and provide public outreach via community events, collateral materials and through [bewaterwise.com](http://bewaterwise.com), which had over 238,000 unique visitors in October. Post-campaign research was conducted to assess the effectiveness of the advertising campaign. The results will be presented to the Board in December.
- Associated with the campaign, CBS sponsored a California Friendly® Yard Makeover Contest in partnership with the California Landscape Contractors Association. A resident from Reseda, California was randomly selected for the \$5,000 yard makeover. CBS and Metropolitan will chronicle the installation.
- Beginning November 24, Metropolitan returned to the airwaves with a seven-week radio traffic campaign. Online search on Google Search and the Google Content Network also continued. Links to [bewaterwise.com](http://bewaterwise.com) appear when keywords such as "water," "California weather," and "water rebates" are searched for by Southern California users.
- Staff arranged an on-camera interview with Water System Operations Group Manager Green and KNBC-TV reporter for a story about how the drought and quagga mussels are impacting Metropolitan's ability to deliver water to member agencies such as the Upper San Gabriel Valley Municipal Water District and Central Basin Municipal Water District.
- Staff provided water conservation information booths at the Santa Ana River Watershed Authority conference in Riverside; the West Basin Water Harvest Festival in El Segundo; the Industrial Environmental Association conference in San Diego; and the Los Angeles Landscape Expo in Long Beach.

# EXTERNAL AFFAIRS

## CORE: LEGISLATIVE, COMMUNICATIONS AND COMMUNITY RELATIONS

Engage the public, labor, business community, agriculture, government leaders, non-governmental organizations, and other stakeholders in California's water issues, communicating Metropolitan's interests and Board-adopted policies through federal and state legislative strategies, multimedia and multi-cultural communications, and educational and other outreach programs.

**Develop and implement local, state, and federal water policy and legislative strategies consistent with Board-adopted policies.**

### FEDERAL

On November 12-14, staff attended the National Water Resources Association's Annual Conference in San Diego, California. During the conference, Director Griset was officially elected as Chairman of the NWRA's Municipal Caucus for a two-year term. In addition, Assistant General Manager Patterson addressed the NWRA Membership on the federal government's role in moving forward with the BDCP.

### STATE

#### Election Results

Democrats held onto their majority status in both the State Senate and Assembly, and Jerry Brown remains Governor. The Senate did not reclaim their supermajority, and the Assembly supermajority will depend on remaining undecided and newly open races. Special elections will continue with the races to replace former Senator Rod Wright and the three Senators who will be leaving for Congress – Mimi Walters, Steve Knight, and Mark DeSaulnier. Proposition 1, the \$7.545 billion water bond, received overwhelming voter support.

The 2015/16 regular legislative session will convene to organize and swear-in new members on December 1.

**Support board member and executive management communications and working relationships with elected officials, other government leaders, business, agriculture, non-governmental organizations, community leaders and other stakeholders to improve awareness and understanding of water policy issues.**

On November 5, Chairman Record addressed the Inland Empire Economic Partnership All Divisions Meeting. Attendees had an opportunity to hear Chairman Record introduce his vision for Metropolitan.

On November 12, Chairman Record and Director Peterson attended the Los Angeles Area Chamber of Commerce's first annual State of LA's Infrastructure workshop, which Metropolitan sponsored. General Manager Kightlinger was a featured panelist for the event, along with Los Angeles Department of Water and Power General Manager Marcie Edwards.

**Support Metropolitan's operations through communication and outreach to various stakeholders (including local government agencies and utilities) regarding water resources; water supply system operations and maintenance; water quality protection and water treatment; infrastructure replacement, refurbishment and development; and emergency management.**

- Staff participated in a regional emergency response exercise to practice coordinating communications (specifically social media) with member agencies and public safety officials in Orange County.
- Staff provided outreach to local communities affected by capital improvement, repair and maintenance projects on the San Diego Pipeline 4 in Temecula and Second Lower Feeder in Long Beach and Carson.

## EXTERNAL AFFAIRS

### CORE: LEGISLATIVE, COMMUNICATIONS AND COMMUNITY RELATIONS continued....

**Provide public outreach in coordination with member agencies to increase awareness of water issues and communicate Metropolitan's interests and Board-adopted policies.**

Issued press release about initial boat building for the 2015 Solar Cup.

**Provide a suite of educational products and programs to educate students about water and foster water stewardship in younger generations.**

- More than 900 students will participate in the Solar Cup program from the 41 high schools selected by 18 Member Agencies. Staff worked with Three Valleys MWD to complete two boat building workshops with associated media coverage for 500 students and teachers.
- Staff facilitated school workshops for over 160 students from five elementary schools at the DVL Water Education Center.
- Staff supported various events/activities in partnership with school districts and Member Agencies (Los Angeles Department of Water and Power, Municipal Water District of Orange County, Upper San Gabriel Valley Municipal Water District, Central Basin, and San Diego County Water Authority). More than 730 participants were served with the following events:
  - \* Los Angeles Unified School District Science Center Open House
  - \* Presentation to Orange County Camp Association
  - \* Presentation at Whittier College on Water Energy Nexus curriculum
  - \* Hosted a booth at the New Children's Museum – Educator's Night
  - \* Presentation on federal grants
  - \* Conducted an H2O Show at Danube Elementary School.
- Between October 16 – November 15, the Education Unit distributed more than 8,150 pieces of Metropolitan curriculum among 11 Member Agencies



# HUMAN RESOURCES

## STRATEGIC PRIORITY: EMPLOYEE DEVELOPMENT

Increase cross-training and employee development efforts to meet the challenges of increased retirements due to an aging workforce. Expand recruitment and retention initiatives to keep pace with retirements and to ensure a diverse workforce who is prepared for the future needs of Metropolitan. Define competencies critical to future needs of the organization.

### Acquire talent.

- Participated in a student forum to provide outreach and communicate upcoming opportunities to graduating engineering, scientific, and technical students.
- Coordinated the Fall Service Awards luncheon for 50 employees with 20 or more years of service. *(see photo page 16)*

### Foster learning and organizational development to support development of internal talent pipelines.

- The second session of the Water System Operations Management Academy was held on November 19 with 30 participants.
- Launched a customized training curriculum to help prepare finance staff for future opportunities.
- Two Education Fairs were held to provide information about academic opportunities available to employees interested in the tuition reimbursement program. Information from several schools that offer tuition discounts and grants to employees was made available.
- Delivered a *Success Signals: Communication Styles* workshop for Engineering Services Career Launch participants and supported the kickoff of the third cohort for the Mentoring Program in Engineering Services.
- Held a meeting with the Headquarters training coordinators to clarify roles and responsibilities and provide updates on online learning options and MyLearning usage.
- Conducted another session in the HR101 Series for HR staff, with Kathy Cole providing a Legislative Update.

### Foster management excellence.

Continued administration of agreements for three professional coaching consultants for managers.

## CORE: HUMAN RESOURCES EXCELLENCE

Foster Human Resources excellence with innovative and efficient processes that attract, hire and develop the right people with the right skills at the right time; provide management with the tools to swiftly and proactively address employee issues and poor performance; enable cost-effective workforce management together with the tools to continually improve workforce skills, competencies, productivity and customer support.

Ensure Metropolitan is a high-performance workplace with excellent leadership and management practices that engage and empower employees; foster alignment with Metropolitan's business goals; provide the right talent and skills for future business needs; and foster a workplace where employees implement cost-effective processes and programs to deliver outstanding value and customer support.

### Maintain compliance and effectiveness in benefit programs.

Drafted Safe Harbor policy to comply with Affordable Care Act guidelines that go into effective January 2015.

Performed an audit of current temporary employees to determine eligibility for medical insurance under the Affordable Care Act guidelines that go into effect January 2015.

### Continue to implement technology solutions that support various Human Resources functions, processes and procedures.

Researched and began the necessary system changes to track medical eligibility to comply with the Affordable Care Act. Changes in system will be completed by January 2015.

# HUMAN RESOURCES

## CORE: HUMAN RESOURCES EXCELLENCE continued.....

### Identify, assess and manage risk.

- The Risk Management Unit completed 33 incident reports communicating instances of Metropolitan property damage, liability, workplace injuries, regulatory visits and spills.
- Risk Management completed 45 risk assessments on contracts, including professional service agreements, construction contracts, entry permits, special events and film permits.

### Control Workers' Compensation Costs.

- Conducted initial investigations on 7 injury incidents.
- Submitted 6 new claims to Metropolitan's workers' compensation claim administrator.
- Closed 13 claim files.
- Arranged 9 medical evaluations (DMV, medical surveillance, hearing conservation, etc.).
- Coordinated random drug/alcohol tests at 2 facilities.
- Addressed 2 accommodation issues.

### Provide proactive, swift, and consistent employee relations and positive labor relations.

During the month of November, Employee Relations continued discussions with the bargaining units on a wide range of issues. Looking ahead to 2015, Employee Relations is currently reviewing and updating its manager training modules.



Fall Service Awards for Employees— General Manager Kightlinger and Chief Administrative Officer Ivey addressed the attendees.

# REAL PROPERTY DEVELOPMENT & MANAGEMENT

## CORE: REAL PROPERTY ACQUISITION, MANAGEMENT AND REVENUE ENHANCEMENT

Manage Metropolitan's real property assets with a focus on revenue enhancement while ensuring that Metropolitan's core operations are protected. Acquire real property for future operational business needs.

**Implement strategies for right-of-way planning and acquisition support of Bay-Delta Initiatives and infrastructure reliability and protection programs.**

- An independent appraiser completed appraisals of two properties near the F. E. Weymouth Water Treatment Plant that, if acquired, would increase efficiency of operations at the plant.
- Staff completed a cost study on a permanent conduit easement for Second Lower Feeder.
- Staff provided property research, valuation, and planning support to Bay Delta Initiatives related to potential near- and long-term projects in the Delta.

**Pursue development of the Diamond Valley Lake area, including the DVL Visitor Center and marina facilities, to support recreation, develop additional leasing and revenue opportunities for Metropolitan, and benefits the surrounding community.**

In Fiscal Year 2014/15, Metropolitan received \$7,065 through October on the percentage lease with Urban Park Concessionaires for the operation of the DVL Marina, Lakeview Trail, and North Hills Trail. The rent received represents seven percent of the gross receipts. Diamond Valley Lake has hosted 649,000 visitors at its marina facilities, and 153,000 private boats have launched since the 2003 public opening.

A four-day entry permit was granted to RichterProduction to photograph scenes at various areas of Diamond Valley Lake, including the Viewpoint, West Dam and Lakeview Trail in conjunction with a commercial project.

**Seek revenue-generating opportunities for real estate assets in several market segments — telecommunications, solar development, film production, and sustainable technology and research.**

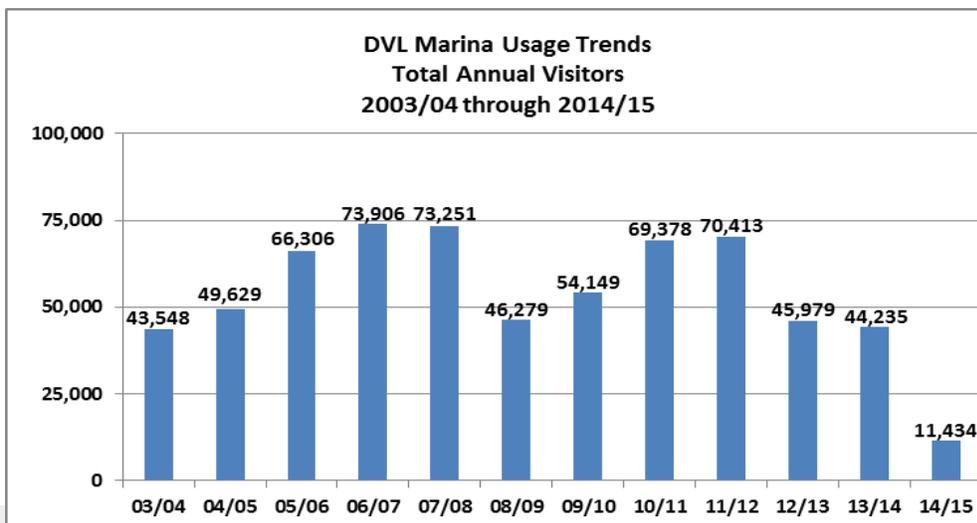
New Cingular Wireless PCS, LLC was granted a lease to allow for a telecommunications facility near Lake Mathews.

**Evaluate additional use and rental of Metropolitan's Headquarters Building.**

A permit was issued to FTP Productions, LLC for filming of scenes for the television series Scandal. Filming took place in the lobby and 12 floor areas at the Headquarters Building.

**Foster staff training and development.**

- One staff person attended *Creating Your Own Success: The Power of a Positive Attitude*, which was offered by the Institute of Management Studies.
- One staff person attended training to renew the California State Notary Public Certification.
- One staff person completed a Microsoft Excel Basic training course.
- Staff attended database training on the Acquisition Tracking System.
- Staff completed mandatory annual High Rise and Fire Life Safety training class and attended training classes for P-Card Application, Basic Records Management, and Records Management Database and Applications.



\*Thru November 2014

# WATER RESOURCE MANAGEMENT

## STRATEGIC PRIORITY: LOCAL PROJECTS AND INTEGRATED RESOURCES PLAN UPDATES

Review Local Resources Program and conservation rebate programs during this drought period to review what new actions might be appropriate, learn from this experience as to how to improve Metropolitan programs and work with the public and member agencies on expanding conservation efforts. Metropolitan's IRP was adopted in 2010 and will be updated in 2015 along with the state-required Regional Urban Water Management Plan.

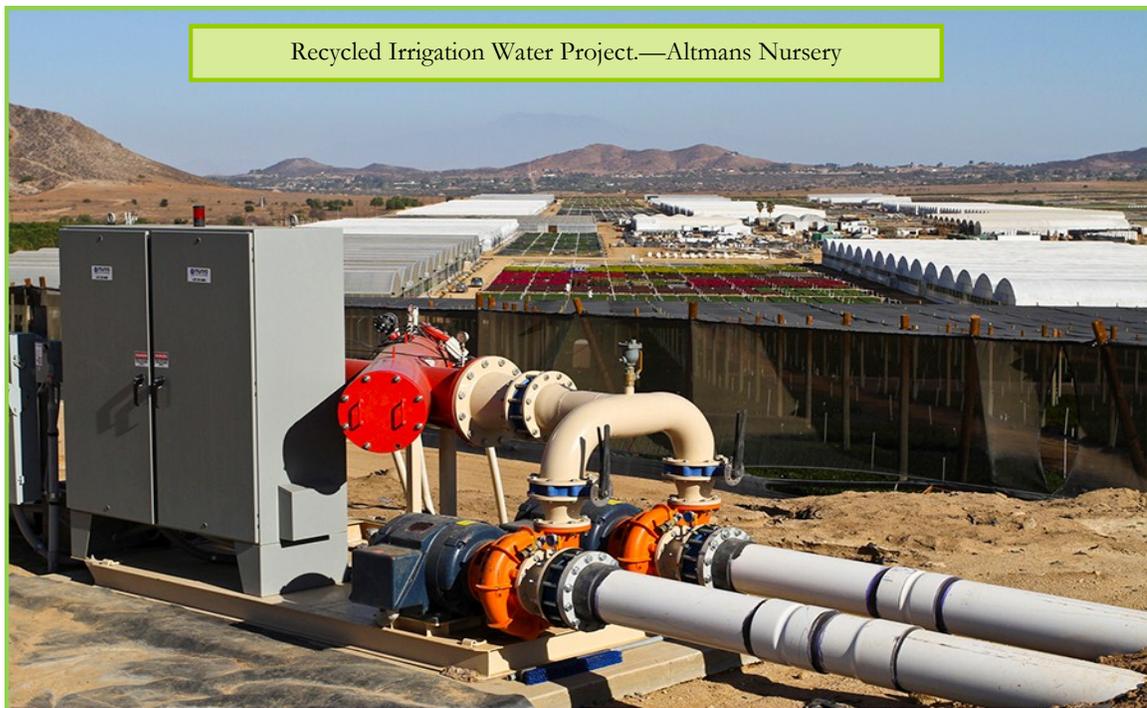
### Implement the Local Resources Program.

On-site Retrofit Pilot Program—Staff participated in the dedication ceremony for the Grant Rea Park in the city of Montebello. The park is one of the sites included in our On-Site Recycled Water Retrofit Program funding. With the assistance of Program funding, an annual use of 86 acre-feet has been converted from potable to recycled water use. This project was possible via joint efforts by four agencies: Metropolitan, Central Basin, city of Montebello, and San Gabriel Valley Water Company. Assembly members Ed Chau and Christina Garcia and other public and water officials recognized Metropolitan for providing funding for the project.

### Implement the Conservation Program effectively.

Status of Conservation Programs—Even as the winter months approach, the conservation incentive programs continue at an unprecedented pace. In November, paid conservation incentives, (\$17.1 million) for fiscal year to date, surpassed last year's entire total. A weekly request for equipment and turf incentives for commercial and residential customers exceeds \$3.5 million.

Water Savings Incentive Program—Metropolitan's program for large custom water efficiency projects, Water Savings Incentive Program, continued processing a number of applications from breweries, hotels, homeowner associations and warehouse retail establishments. This month staff conducted final inspection for the largest Water Savings Incentive Program customer to date, Altmans Nursery. Altmans onsite recycled irrigation water project will save over 90 million gallons per year and receive an incentive from Metropolitan of approximately \$450,000. (*see photo below*)



Recycled Irrigation Water Project.—Altmans Nursery

# WATER RESOURCE MANAGEMENT

## CORE: WATER SUPPLY

Develop and execute water resource strategies that achieve the long-term reliability envisioned in the Integrated Resources Plan (IRP).

### **Ensure cost-effective and reliable imported water supplies.**

2014 State Water Contractors Water Operations Committee—Metropolitan staff took the lead role in the planning and chairing of the 2014 State Water Contractors Water Operations Committee Workshop. The Workshop was well attended by most other SWP Contractors, given concern over the potential for another dry year ahead. Metropolitan staff will continue to take a lead role in the SWC Water Operations Committee meetings as we move through the water year, ensuring coordination with the Department of Water Resources and other State Water Contractors.

Lower Colorado Water Supply Project—The Bureau of Reclamation has notified Metropolitan that it projects that 6,048 acre-feet of Lower Colorado Water Supply Project water will be available in 2015 for Metropolitan to exchange for Colorado River water. Reclamation anticipates that construction of two new Project wells will be completed by the end of 2015, which would allow an additional 2,400 acre-feet to be made available to Metropolitan in 2016.

SWP Financial Forecasting Model—Staff assisted in the development of the SWP Financial Forecasting Model, inclusive of Delta Habitat Conservation and Conveyance Program facilities, created by State Water Contractors staff to assist the other water contractors with their decision on a Bay Delta Conservation Plan investment. Staff also participated in the three State Water Contractors workshops held to demonstrate to the other water contractors the functionality of the model.

### **Participate and lead, where appropriate, in statewide and regional planning efforts.**

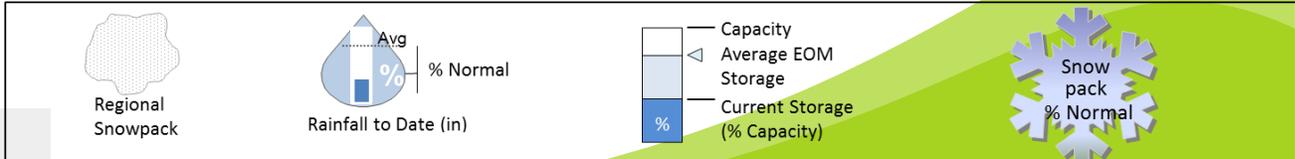
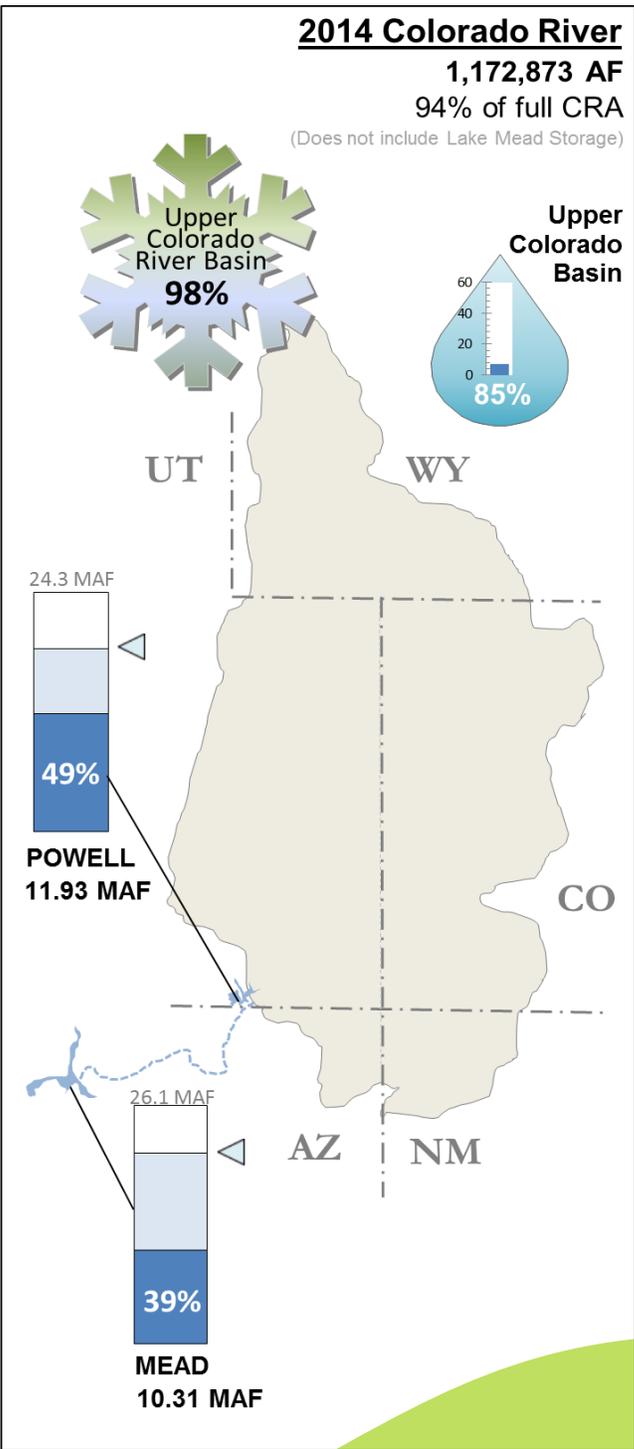
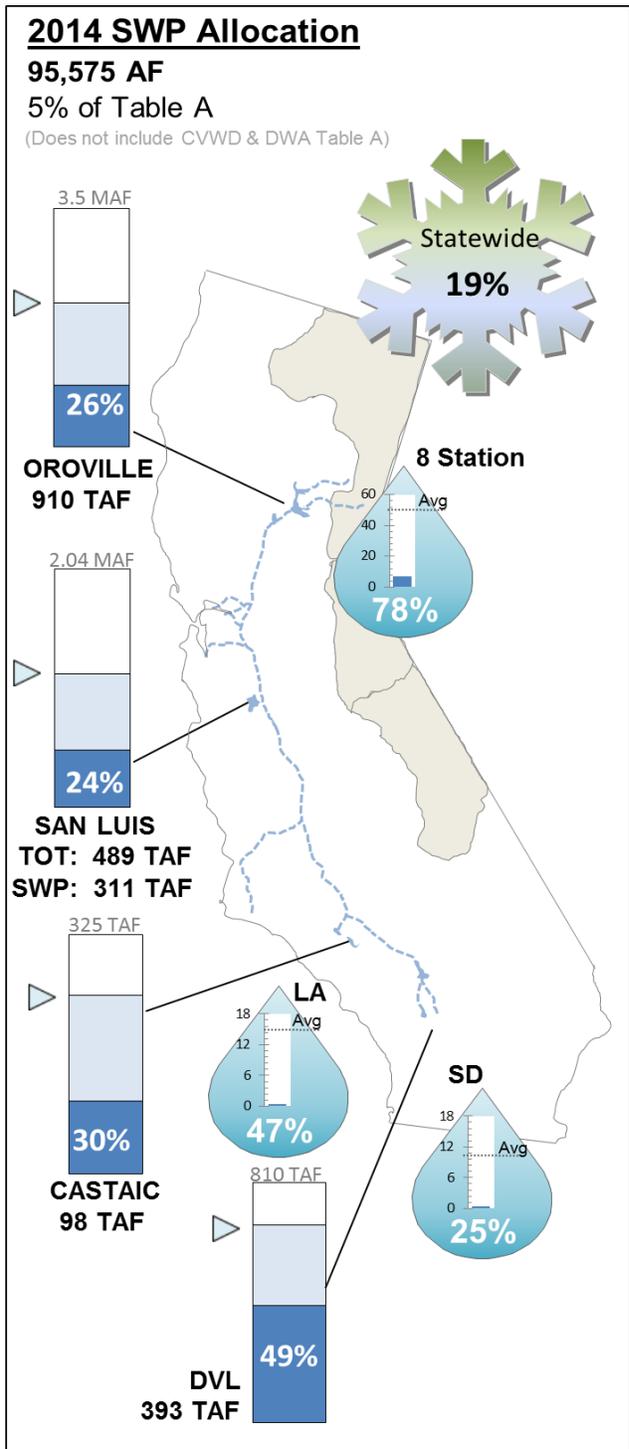
Water Supply Allocation Plan (WSAP)—In November, there were two Member Agency workgroup meetings on the process to review Metropolitan's Water Supply Allocation Plan. Staff presented potential recommendations from the workgroup process with an oral board report at the November 17 Water Planning and Stewardship Committee. Staff will bring forth recommended revisions to the WSAP for Board consideration in December.

### **Collaborate with member agencies to coordinate planning efforts, develop policy recommendations, and promote consistent public communications in water resource management issues.**

Clean Power Plan—Staff met with a representative from the American Water Works Association (AWWA) to discuss the potential impacts and benefits of the Environmental Protection Agency's proposed Clean Power Plan rule to the water sector. The Plan would require existing power plants (e.g., coal-fired) to reduce their greenhouse gas emissions by 30 percent of 2005 levels by 2030.

The AWWA estimates that the proposed rule would cause national average retail electricity rates to rise six to seven percent by 2020 and potentially cost water utilities from \$230 to \$460 million a year by 2020. States would have the flexibility to choose programs (which the Environmental Protection Agency refers to as building blocks in the proposed regulation) to meet the reduction goals, including energy efficiency programs, designated as the fourth building block. AWWA is planning to advocate for reserving \$100 million a year in dedicated energy efficiency funding for water utilities to help offset the cost of the rule. Staff will collaborate with AWWA and other stakeholders to engage in the proposed rule-making process, which is on an accelerated schedule for potential adoption by June 2015, with initial comments due on December 1, 2014.

# WATER SUPPLY CONDITIONS as of Nov. 30, 2014



# WATER SYSTEM OPERATIONS

## CORE: PROVIDE RELIABLE WATER SUPPLIES

System Operations delivered approximately 150,000 acre-feet of water to meet member agency demands in November, which averaged approximately 5,000 AF per day. This was a decrease of about 950 AF per day compared to October deliveries. Treated water deliveries for November totaled 71,000 AF, or 47 percent of total deliveries for the month. In November, 104,500 AF of Colorado River water was pumped as the CRA remained on an eight-pump flow. At the end of the month, 1,060,000 AF of CRA water had been pumped year to date. State Water Project imports averaged 1,500 AF per day for 45,000 AF for the month. This was a decrease of 8,000 AF from October. System Operations continued the strategy of minimizing the use of SWP water wherever possible. For the month of November, the use of SWP water accounted for 29 percent of Metropolitan's deliveries. This was a one percentage increase from October SWP deliveries.

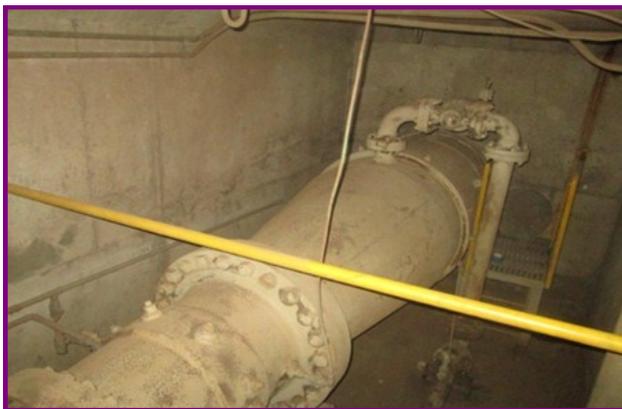
Storage at Diamond Valley Lake held steady at 393,000 AF or 48 percent full. There were no withdrawals from Diamond Valley Lake in November. Inland Feeder deliveries remained suspended in November. SWP blends to the Weymouth, Diemer, and Skinner plants remained at zero percent due to the low SWP allocation of five percent.

The Greg Avenue pump station continued uninterrupted operations in November. At the end of the month, the pumps at Greg Avenue delivered 26,100 AF of CRA water to the western side of Metropolitan's distribution system. For the month of November, a total of 4,200 AF was pumped from Lake Perris to the Mills plant to meet member agency demands. The Mills plant used Lake Perris water exclusively for the month of November.

System Operations continued to maximize power generation throughout the month. In November, Metropolitan's hydroelectric plants generated an average of 11.3 megawatts per hour for 8,100 megawatt-hours for the month.

## CORE: OPTIMIZE MAINTENANCE

Staff continued the system-wide coatings program aimed at preventing corrosion and extending the life of pipelines and infrastructure. Projects completed this month included substructure work on San Diego Pipelines 4 and 5, and the Upper, West Orange County, and Second Lower feeders. Additionally, coating work was completed on large covers on a Metropolitan structure at the San Joaquin Reservoir in Orange County and on 60-year old roll-up doors in the motor room at Hinds Pump Plant. [\(See photos below\)](#)



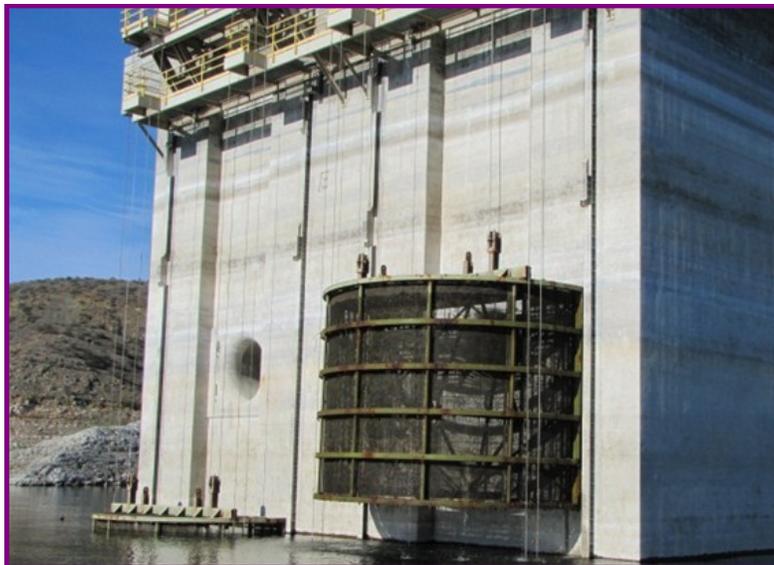
West Orange County Feeder pipes before and after coating



# WATER SYSTEM OPERATIONS

## CORE: OPTIMIZE MAINTENANCE continued.....

Staff replaced part of the adjustment mechanism on the Inlet/Outlet tower fish screens at Diamond Valley Lake. An inspection of the pulley system found corrosion from more than 14 years of use and submersion in water. Replacing the equipment ensures that the screens will be positioned properly protecting the downstream pump/generator units located in the Wadsworth facility. *(see photo right)*



Staff completed refurbishment of the Beverly Hills Pressure Control Structure on the Santa Monica Feeder. The feeder and control structure were originally put into service in 1941. The control structure is used to maintain downstream pressure and also provides emergency shutoff protection by closing two electrically operated shutoff valves in the event of a pipeline failure.

A new electrical sub-station is being installed that will improve reliability of the Jensen plant in case of an electrical failure in the existing system. Staff is constructing a concrete pad for a new substation and installing all conduits. The transformer, switchboard, and cable installation will follow. This project is expected to be complete in December.

Staff continues to upgrade Metropolitan's operating equipment with more environmentally friendly units. Staff accepted delivery of a new skip loader with a Tier 4 engine, replacing an older model loader. The new unit will reduce diesel emissions by 90 percent. *(see photo below)*



# WATER SYSTEM OPERATIONS

## CORE: OPTIMIZE MAINTENANCE continued.....

The San Diego County Water Authority requested a 53-day shutdown of San Diego Pipeline No. 3 to reline a portion of the pipe for the Highway 76 Widening Project. The shutdown is expected to continue through December 12, 2014. Metropolitan is utilizing this extended shutdown period to perform an interior inspection of the entire length of the pipe and to convert 19 blow-off structures to pumping wells. During dewatering operations, it was discovered that the seals on a 96-inch diameter butterfly valve would not seal due to a failure of the integrated rubber seal. Staff was able to isolate the pipeline using a smaller alternative coupling and flange location and to prevent any delay to the shutdown. The leaking 96-inch butterfly valve was removed for potential rehabilitation. Because of the parallel piping configuration, the valve is no longer needed for normal operation. In its place, a new pipe segment was manufactured and installed. *(see photos below)*

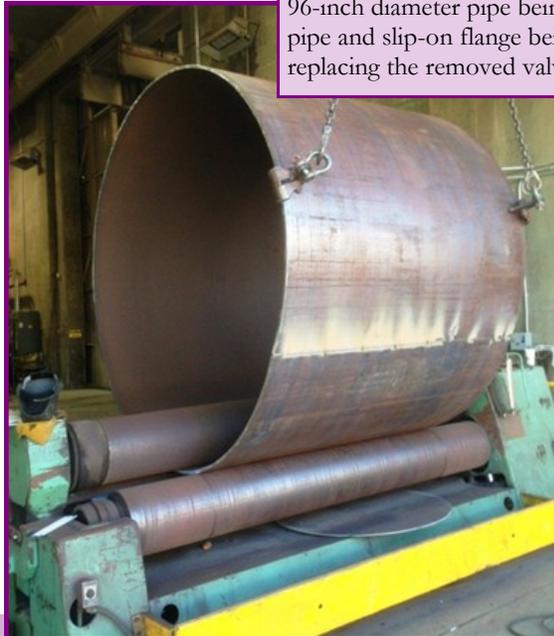
Staff installing the temporary 60-inch blind flange



San Diego Pipeline Nos. 3 and 4 Intertie spool removal



96-inch diameter pipe being fabricated (left) and (right) 96-inch diameter pipe and slip-on flange being fit and welded to manufacture the segment replacing the removed valve.



# WATER SYSTEM OPERATIONS

## CORE: MANAGE THE POWER SYSTEM

During October, Metropolitan made forward energy purchases to support Colorado River Aqueduct pumping requirements in November 2014. A total of 41,125 megawatt-hours of off-peak energy was purchased for approximately \$1.4 million. Payment for the energy is made after confirmation of delivery.

Metropolitan participated in a joint meeting with staff from Association of California Water Agencies, California Urban Water Agencies, and California Municipal Utilities Association and their member water agencies on the Energy Intensity of water. Energy Intensity (EI) is a measure of the amount of energy utilized in various water functions such as conveyance, treatment, etc. EI and similar water/energy nexus issues are being discussed by several state agencies. In addition, new legislation requests that water agencies voluntarily include EI values as part of their Urban Water Management Plan. The water associations and their members are discussing ways to develop Energy Intensity information in a consistent and reasonable manner and the possible development of fact sheets or other material that can provide key messages and clarify water industry perspectives. Metropolitan is enhancing its calculation of the EI of various functions such as conveyance and distribution to include energy from hydroelectric generators associated with those functions.

## CORE: IMPROVE SECURITY AND EMERGENCY RESPONSE

On November 5, staff assigned to Metropolitan's Emergency Operations Center and the Incident Command Centers at the Diemer water treatment plant and in the Eastern Region responded to a simulated severe weather event. The six-hour exercise, called *Rolling Thunder*, focused on how Metropolitan would manage an emergency response to flooding, debris flows, and other issues associated with a large multi-day storm in the Riverside and Orange County areas. Metropolitan member agencies from the Cities of Anaheim, Fullerton, and Santa Ana, the Municipal Water District of Orange County, and the Water Emergency Response Organization of Orange County participated in this exercise. Staff from the Orange County Sheriff's Department, the Emergency Management Division, and the National Weather Service also participated in the planning and execution of this exercise. Lessons learned from this and other exercises will be used to build Metropolitan's preparedness efforts. (*see photos below*)



The National Weather Service staff updated Metropolitan's EOC staff on the simulated storms that made up the "Rolling Thunder" exercise scenario (left). Staff in the EOCs plans their response during the exercise (right).

## CORE: PROTECT SOURCE WATER QUALITY

Nuisance taste-and-odor production due to algal activity has returned to baseline levels in Metropolitan's source water reservoirs.

# WATER SYSTEM OPERATIONS

## CORE: DEVELOP WORKFORCE

The Safety and Technical Training Team conducted Mobile Crane Training for staff. This training is an Occupational Safety and Health Administration required certification and is conducted by the National Commission for Certified Crane Operators. Two, four-day sessions of training and certification testing were presented to a total of 33 employees who operate cranes. The certification pass rate was 90 percent.

## CORE: PROVIDE TECHNICAL SUPPORT TO MEMBER AGENCIES

A pipe failure and subsequent flooding from a private entity's pump station caused erosion over the Lower Feeder at service connection WR-12. Although no damage occurred to Metropolitan's pipeline, considerable erosion over the pipe reduced earthen cover and eroded the adjacent patrol road. A Western Municipal Water District pipeline in the area was also exposed by the erosion. Staff performed immediate road pairs to stabilize the area, and a coordinated agreement has been reached between Metropolitan and Western to have the repairs completed by Metropolitan forces. Staff is communicating with the private entity to recover the cost of the damages.

A shutdown of the Santiago Lateral took place to replace three air vacuum valves on the pipeline and to modify service connection OC-33. The connection will be increased from 40 cubic feet per second to 100 cfs at the request of the Municipal Water District of Orange County. Construction is being performed by MWDOC's contractor and Metropolitan staff will provide construction inspection.

## CORE: ENSURE WATER QUALITY COMPLIANCE, WORKER SAFETY AND ENVIRONMENTAL PROTECTION

On October 21, 2014, staff filed an application for the State Water Resources Control Board (SWRCB) National Pollutant Discharge Elimination Permit (NPDES) for aquatic animal species control. This permit, if approved, will allow Metropolitan to deliver a limited amount of raw Colorado River Water at service connection CenB-48 for needed groundwater replenishment and apply sodium hypochlorite during the delivery to control quagga mussels in the flood control channels. The application was posted on the SWRCB's website for the required 30-day comment period, which closed on November 21. As of November 18, no comments were received.

On November 18, the SWRCB adopted the Statewide NPDES Permit for Drinking Water System Discharges. This covers Metropolitan discharges (e.g., shutdown dewatering) and will replace coverage under several other permits with the Regional Water Quality Control Boards. Water utilities must enroll under the permit by September 1, 2015.

Storage	As of 11/30/14	% of Capacity
DVL	392,958 AF	49
Lake Mathews	45,168 AF	25
Lake Skinner	27,347 AF	62

### Useful information:

**AF** = acre-foot, the volume of water to cover an acre of land, one-foot deep.

Approximately 326,000 gallons of water, serves annual needs of two typical California families.

**TAF**=thousand acre-feet

**MAF**=million acre-feet

# WATER SYSTEM OPERATIONS

## CORE: PREPARE FOR FUTURE LEGISLATION AND REGULATION

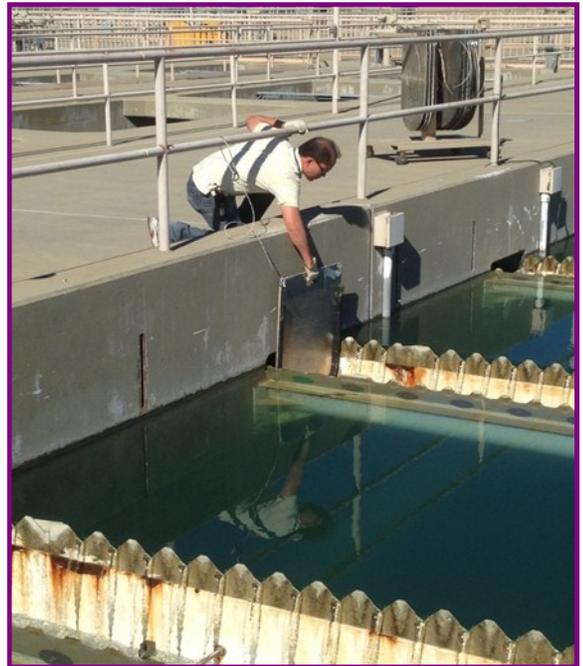
Metropolitan hosted a State Water Resources Control Board Safe Drinking Water Plan Workshop on November 21. The Safe Drinking Water Plan (Plan) includes an assessment of the overall quality of the state's drinking water, the identification of specific water quality problems, an analysis of the known and potential health risks that may be associated with drinking water contamination in California, and specific recommendations to improve drinking water quality. Six public workshops have been scheduled to solicit public comment on the Plan. Final comments are due by December 15.

## CORE: OPTIMIZE WATER TREATMENT AND DISTRIBUTION

State Water Project target blends at the Weymouth, Diemer, and Skinner water treatment plants remained at zero percent for November. Flow-weighted running annual averages for total dissolved solids for September 2013 through August 2014 were 580, 578, and 514 mg/L for Weymouth, Diemer, and Skinner plants, respectively.

Staff completed the Jensen Plant Launder Gate Improvement Project in November 2014. The project consisted of fabrication of aluminum drop gates, the installation of steel gate frames, and installation of drains in 108 launders in the plant's 12 settling basins. The launders collect water flowing from the settling basins into the plant filters. The new gates allow the settling basins to be taken out of service during low flow periods while minimizing water stagnation in the out-of-service launders, thereby preventing algae and plant growth which can be sources of taste and odor. Another benefit of the launder gates is that plant staff no longer need to physically remove algae from the out-of-service launders, improving the reliability of the over-all treatment process.

Jensen plant staff continues to investigate, test, and research several scenarios to operate the treatment plant at lower flow ranges under a reduced SWP allocation. Weekly operational tests to determine the potential risks and the viability of operating the plant below the minimum design flow are being conducted. The plant will be modified to ensure that it can effectively treat low flows from the State Water Project while meeting all water quality and operational requirements.



Installation of launder gate at the Jensen plant

# Office of the General Manager

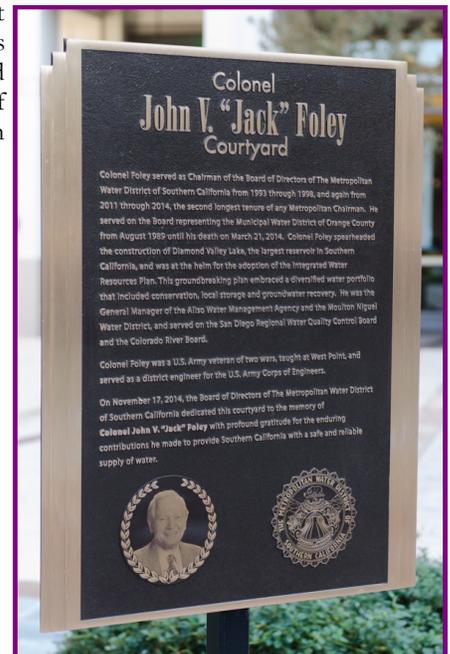
## DEDICATION OF COLONEL JOHN V. 'JACK' FOLEY COURTYARD—NOVEMBER 17, 2014

The courtyard at Metropolitan's headquarters building was formally named in honor of John V. "Jack" Foley, an admired Orange County water leader who served two separate terms as the agency's Chairman of the Board of Directors.

Colleagues, friends and family gathered in a poignant and fitting tribute to honor and recognize Foley's achievements and legacy, as Metropolitan unveiled a bronze plaque dedicating the Colonel John V. "Jack" Foley Courtyard. Foley, the 17th Board Chairman in Metropolitan's 86-year history and retired U.S. Army colonel, passed away earlier this year.

Foley was serving his second term as Metropolitan's chairman at the time of his death. He previously presided as Chairman from December 1993 through 1998. One of the longest-tenured Metropolitan Directors, he represented the Municipal Water District of Orange County since August 1989. He was first elected chairman following the 1987-92 drought, which in 1991 initiated shortages and rationing throughout the Southland for the first time in district history. Under Foley's leadership following that drought, Metropolitan's Board initiated a public process that culminated with the 1996 adoption of Metropolitan's Integrated Resources Plan, a model long-term water strategy that expanded Metropolitan's supply portfolio beyond water imports, to embrace conservation, recycling, increased storage, groundwater cleanup and other local resources.

A U.S. Army veteran of two wars, Foley's last military assignment was as district engineer in five southwestern states for the U.S. Army Corps of Engineers until his retirement in 1976. Earlier, he commanded a company during the Korean War and a battalion in Thailand during the Vietnam conflict. He also served in the office of the chief of staff and as chief of public affairs for the Army chief of engineers in Washington, D.C.



**Metropolitan's Mission** 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.

General Manager: Jeffrey Kightlinger  
Office of the GM No.: 213 217-6139  
Email: [OfficeoftheGeneralManager@mwdh2o.com](mailto:OfficeoftheGeneralManager@mwdh2o.com)

700 No. Alameda Street,  
Los Angeles, CA 90012  
General No.: 213 217-6000

[www.MWDH2O.com](http://www.MWDH2O.com)

[www.BEWATERWISE.com](http://www.BEWATERWISE.com)