



The Metropolitan Water District of Southern California General Manager’s Monthly Activity Report for July 2018

This report identifies the actions and activities taking place during the month that support the objectives of the General Manager’s Fiscal Year 2018/19 Strategic Priorities and the Core Business of the GM’s work groups.

JULY 31, 2018

GENERAL MANAGER’S BUSINESS PLAN FISCAL YEAR 2018/19

There are seven key strategic priorities that the Office of the General Manager will be focused on for the period covered by the biennial budget (FY 2018/19 and FY19/20). Additionally, Groups reporting to the General Manager continue to work on core business.

STRATEGIC PRIORITY #1—Enhance Infrastructure Safety, Security, and Resiliency. Metropolitan’s vast network of aqueducts, pipelines, pumps and treatment facilities are the backbone of Southern California’s regional water system. However, this vital infrastructure is aging and heightened reinvestment in this system is essential to ensure Metropolitan can continue to deliver on its promise of reliability in the coming decades.

STRATEGIC PRIORITY #2—Prepare for More Extreme Hydrology. Staff will work closely with the Board to assess Metropolitan’s storage capabilities, current strategies and review future needs to identify whether new strategies and/or new investments are needed.

STRATEGIC PRIORITY #3—Ensure Imported Supply Reliability. Southern California’s foundational water supply remains the Colorado River and the State Water Project and their ongoing reliability is critical for the region. Important decisions on both supplies need to be made over the next two years.

STRATEGIC PRIORITY #4—Maximize Local Resources. Staff will begin work with the Board and member agencies on a review of the institutional issues associated with the Regional Recycled Water Program and its relationship to Metropolitan’s ongoing Local Resources Program.

STRATEGIC PRIORITY #5—Promote Environmental Stewardship and Sustainability. Metropolitan will continue to lead with programs that promote actions that support sustainable practices, reduce greenhouse gas emissions and protect natural habitat and water quality.

STRATEGIC PRIORITY #6—Foster Leadership and Strengthen Workforce Capability. More than half of Metropolitan’s workforce has reached retirement age, including many members of Metropolitan’s executive management team. This is a challenge to Metropolitan’s capacity to adequately train and prepare its workforce but is also an opportunity to build a workforce geared for the challenges of the future.

STRATEGIC PRIORITY #7—Maintain Sound Business Practices and Fiscal Integrity. Metropolitan will continue its longstanding practice of operating in a productive, cost-effective, transparent and efficient manner to ensure sound financial stability.

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ADMINISTRATIVE SERVICES SECTION

CORE BUSINESS: Business Processes

Advance value-added business process improvements to increase effectiveness and efficiency while striving for innovation, flexibility, and integration with technology.

The Records Management and Imaging Services team partnered with the coordinator from the Business Management Team to repurpose 26 cases of misplaced odd-sized paper. The paper was relocated to the Imaging Services Center (Reprographics) for immediate use, which resulted in a cost savings of \$2,000. Records Management plans to reach out to other teams throughout Metropolitan to potentially repurpose additional paper, eliminate costs, and promote sustainability in the workplace.

Inventory Management staff is responsible for ensuring the proper disposition of Metropolitan surplus property. Investment Recovery staff located at the Weymouth treatment plant receives surplus property

from various Metropolitan facilities and determines the value and process to generate maximum revenue for each asset. Property is then either sold at web and on-site auctions, or processed as scrap metal or e-waste. For Fiscal Year 2017/18, staff generated \$330,700 in surplus property revenue on behalf of Metropolitan.

BAY-DELTA INITIATIVES GROUP

GM STRATEGIC PRIORITY: Ensure Imported Supply Reliability

Southern California's foundational water supply remains the Colorado River and the State Water Project and their ongoing reliability is critical for the region. Important decisions on both supplies need to be made over the next two years.

Objective: Collaborate with the state and other state and federal water agencies in pursuing the implementation and construction of California WaterFix.

In addition to Metropolitan's Board voting on July 10 to support Metropolitan's participation in the California WaterFix project, several other milestones were achieved during the month of July. On July 18, the California Department of Water Resources released a Draft Supplemental Environmental Impact Report/ Environmental Impact Statement (EIR/EIS) for California WaterFix. The document analyzes several proposed changes designed to reduce the project's footprint and minimize impacts on environmental resources in the Bay-Delta, including wetlands and other water resources and local communities. Public comments will be accepted on the draft Supplemental EIR/EIS through September 17, 2018.

The Delta Reform Act, as implemented by the Delta Stewardship Council (DSC), requires a project proponent to certify through a Consistency Determination that proposed covered actions in the Sacramento-San Joaquin Delta are consistent with the co-equal goals identified in the Delta Reform Act and all applicable Delta Plan policies. On July 27, DWR formally submitted the Certification of Consistency with the Delta Plan for California WaterFix to the DSC. The July 27 filing opened a 30-day period for public review and appeal, due August 26, 2018.

BAY-DELTA INITIATIVES GROUP

GM STRATEGIC PRIORITY: Ensure Imported Supply Reliability continued...

Two new public joint powers authorities have been formed to aid in the implementation of California WaterFix—Delta Conveyance Design and Construction Authority (DCA) and Delta Conveyance Finance Authority (Finance Authority). Both agencies hold their regularly scheduled Board meetings on the third Thursday of each month. On July 19, the DCA held its second meeting since formation and approved a budget for fiscal year 2018/19. The Finance Authority held its first meeting on July 19 and authorized executing an agreement for services of Brian Thomas as Interim Executive Director. Additionally, they selected their board officers -Randy Record, Metropolitan's Chairman of the Board, was selected as Board President; Gary Kremen, representing Santa Clara Valley Water District, was selected as Vice President; and Jeff Davis, representing San Geronio Pass Water Agency, was

selected as Secretary. On July 27, the Finance Authority submitted a letter of interest to the U.S. Environmental Protection Agency for the Water Infrastructure Finance and Innovation Act program for assistance in financing California WaterFix.

The State Water Resources Control Board proceedings for the California WaterFix petition for additional point of diversion are ongoing. The evidentiary portion of Part 2 of the hearings, which consider the effects of the proposed project on fish and wildlife, concluded on April 25, 2018. The rebuttal phase starts on August 2, 2018, with the presentation of rebuttal testimony and cross examination. Staff is coordinating with other State Water Project contractor agencies to prepare rebuttal testimony and participate in the hearings.

Objective: Pursue environmental restoration project opportunities that meet the goals of California EcoRestore and identify land use opportunities for Metropolitan's Delta Islands.

Staff continued to participate in the Yolo Bypass Adult Salmonid Habitat Restoration and Fish Passage Project and the Fisheries and Engineering Technical Team (FETT) convened by the Lead Agencies, DWR and the U.S. Bureau of Reclamation. The Lead Agencies have prepared a Science Plan, which will be reviewed by the FETT, to guide collection of additional hydrologic and biologic information to support the project's adaptive management program.

Staff also continued to work with Yolo County, the Yolo Basin Foundation, and Ducks Unlimited to complete submittal requirements for a \$2 million Proposition I grant that was awarded earlier this year by the Sacramento-San Joaquin Delta Conservancy for the Yolo Bypass Wildlife Area Drainage and Water Infrastructure Project. An additional \$4 million was requested for the project from the California Department of Fish and Wildlife.

Objective: Provide leadership on scientific studies that further opportunities to sustain and support native species and habitat.

One of the actions in the state's Delta Smelt Resiliency Strategy is to operate the Suisun Marsh Salinity Control Gates to improve habitat conditions for Delta smelt. DWR has been actively working to obtain permits and align resources to implement the Suisun Marsh Salinity Control Gate action starting August 1, 2018. The State Water Contractors will supplement DWR's operations and monitoring program with additional monitoring to evaluate the effects of the action.

BAY-DELTA INITIATIVES GROUP

CORE BUSINESS: Bay-Delta Solutions

Develop and pursue near- and long-term solutions that will ensure improved water quality and water supply reliability. Efforts include providing leadership for proposed Delta improvements, participating in on-going federal and state Bay-Delta regulatory processes, effectively managing studies and research activities that promote collaborative science, identifying opportunities for Delta Islands land management, and monitoring Delta levees performance to ensure long-term levees integrity.

Objective: NEAR-TERM DELTA ACTIONS—Develop and implement near-term measures, compatible with long-term Delta solutions to support regulatory processes that improve water quality and water supply reliability. Near-Term Actions include important efforts such as Regulatory, Planning, and Legislative Support; Science Development, and Emergency Preparedness Planning and Implementation.

a. Regulatory, Planning, and Legislative Support

State Water Resources Control Board

On July 6, the SWRCB released its draft final Bay-Delta Water Quality Control Plan (WQCP) amendments for the Lower San Joaquin River and Southern Delta as part of the Phase I process. The draft final proposal would update water flow objectives in the Lower San Joaquin River and its major tributaries—the Stanislaus, Tuolumne, and Merced Rivers—and would amend southern Delta salinity objectives. Staff coordinated with the State Water Contractors to develop and submit comments to the SWRCB on July 27. A SWRCB meeting to receive public comments and consider adoption is scheduled for August 21-22.

Also on July 6, the SWRCB issued a Phase 2 Framework document for updating flow requirements for the

Sacramento River, its tributaries, and the Delta and its tributaries, including the Calaveras, Cosumnes and Mokelumne Rivers. The Framework document proposes tributary flow requirements for February to June based on the percent of unimpaired flow, provides a narrative objective for cold water flows from reservoirs for the protection of salmon, describes new objectives for fall Delta outflow and interior Delta flows that are drawn from requirements from existing biological opinions, and provides additional guidance on implementation of voluntary agreements. For Phase 2, a draft proposed plan and staff report analyzing alternatives is planned to be released later this year for public review and comment.

Objective: NEAR-TERM DELTA ACTIONS—b. Science Development

Staff continued participating in the Collaborative Science and Adaptive Management Program (CSAMP), including participation on the Collaborative Adaptive Management Team (CAMT). In July, the CSAMP Policy Group received a presentation on the results of the Delta Smelt Entrainment Study, evaluating factors associated with salvage of adult Delta smelt. The Entrainment Study suggests that abundance, exports, hydrology, turbidity, and precipitation significantly correlate with salvage of Delta smelt. The study also found that proportional entrainment is low in recent years, suggesting recent operations may have reduced entrainment risk. The CSAMP Policy Group discussed possible uses and limitations of the study results, and more work is expected to fully understand the usefulness and applicability. Staff is also participating in the CAMT salmon subcommittee, which is summarizing information gathered/learned from the CAMT Delta Salmonid Research Workshop that was held in June 2018 and identifying recommendations for scientific salmonid studies that CAMT could support.

Objective: NEAR-TERM DELTA ACTIONS—c. Emergency Preparedness Planning and Implementation

Delta Flood Emergency Management Plan

The Department of Water Resources continues to develop and refine the Emergency Response Tool (ERT), which is a modeling tool to facilitate the analysis of proposed emergency response actions to respond to catastrophic levee failures in the Delta. In July, DWR completed ERT studies using sheet pile for freshwater pathway breach closures and found that pathway restoration and export outage could be reduced by a couple of months. DWR stated that with ERT refinements they will determine minimum reservoir releases and optimum flow durations from Sacramento River and San Joaquin River reservoirs in conjunction with pathway restoration to achieve export resumption.

CHIEF FINANCIAL OFFICER GROUP

CFO STRATEGIC PRIORITY: Maintain Strong Financial Position

Provide timely and discerning financial analyses, planning, and management to ensure that forecasted revenues are sufficient to meet planned expenses and provide a prudent level of reserves consistent with Board policy.

Objective: Manage risk to protect Metropolitan's assets against exposure to loss.

The Risk Management Unit completed 57 incident reports communicating instances of Metropolitan property damage, liability, workplace injuries, regulatory visits, and spills.

Risk Management completed 56 risk assessments on contracts, including professional service agreements, construction contracts, entry permits, special events, and film permits.

CORE PRIORITY: Business Continuity

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

Objective: Manage the Business Continuity Management Program in accordance with Operating Policy A-06.

- Assisted the business units in completing business continuity plan update reviews and approvals.
- Based on the plan updates, presented the updated application recovery requirements to Information Technology.

ENGINEERING SERVICES GROUP

GM STRATEGIC PRIORITY: Enhance Infrastructure Safety, Security and Resiliency
Metropolitan's vast network of aqueducts, pipelines, pumps and treatment facilities are the backbone of Southern California's regional water system. However, this vital infrastructure is aging and heightened reinvestment in this system is essential to ensure Metropolitan can continue to deliver on its promise of reliability in the coming decades.

Objective: Manage and execute Board-authorized projects within the Capital Investment Plan (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:

- Jensen Finished Water Reservoir No. 2 Cover Replacement. This project replaces the floating cover and liner at the Jensen plant's Reservoir No. 2 and improves the existing inlet configuration for the reservoir. Preliminary design is 75 percent complete and is scheduled to be complete by December 2018.
- Mills Finished Water Reservoir Rehabilitation. This project rehabilitates the Mills plant's two finished water reservoirs, including replacement of the floating covers and liners, refurbishment or replacement of existing shutoff gates, installation of a new drop gate, and installation of enhanced security features. Preliminary design is 75 percent complete and is scheduled to be complete by December 2018.
- Valley View Hydroelectric Power Plant Rehabilitation. This project refurbishes deteriorated components of the generator at Valley View Hydroelectric Plant and rehabilitates auxiliary systems at the facility. Rehabilitation is proceeding in two stages: Stage 1 will perform immediate repairs to the generator to enable the plant to return to operation, and Stage 2 will address long-term improvements needed for auxiliary systems at the plant. The Stage 1 work is 45 percent complete and is scheduled to be complete by November 2018, while preliminary design of the Stage 2 improvements is 20 percent complete and is scheduled to be complete by February 2019.
- Lake Mathews and Lake Skinner Dam Upgrades. This project conducts comprehensive evaluations for improvements to the spillways and appurtenant structures at Lake Mathews and Lake Skinner, and upgrades the dam monitoring systems at both facilities. These facilities are under the jurisdiction of the California Division of Safety of Dams. The comprehensive assessment of the two spillways and the outlet tower at Lake Skinner is 20 percent complete and is scheduled to be complete by December 2018. Preliminary design of the monitoring system upgrades at both facilities is 15 percent complete and is scheduled to be complete by February 2019.
- Rialto Pipeline CB12 & CB16. This project replaces two service connection valves on the Rialto Pipeline. Design is complete and a request to the Board for award of a construction contract is planned for September 2018.
- Lake Mathews Forebay Lining and Tower Repairs. This project repairs the outlet tower and concrete lining at the Lake Mathew forebay. These repairs will improve the reliability of water deliveries through the Upper and Lower Feeders to the Weymouth and Diemer plants. Construction is 60 percent complete and is scheduled to be complete by October 2018.
- Wadsworth Pumping Plant Yard Piping Lining Repairs. This project replaces the existing deteriorated coating within the yard piping at Wadsworth Pumping Plant. Design is complete and a request to the Board for award of a construction contract is planned for August 2018.
- Orange County Feeder Cathodic Protection – This project installs an impressed current cathodic protection system on the Orange County Feeder. Design is complete and a request for award of a construction contract is planned for September 2018.
- Orange County Region Service Center. This project constructs a new 12,000 sq. ft. permanent service center for the Orange County operating region. The existing service center was removed in 2008 to provide space for the Oxidation Retrofit Project construction. Existing temporary facilities, installed at that time, consist of three construction trailers for staff, four shipping containers for equipment, and an old warehouse for shop fabrication. Construction is five percent complete and is scheduled to be complete by December 2019. *(see photo next page)*

ENGINEERING SERVICES GROUP

GM STRATEGIC PRIORITY: Enhance Infrastructure Safety, Security and Resiliency

Objective: Manage and execute Board-authorized projects within the Capital Investment Plan (CIP) to ensure the reliable delivery of water to Metropolitan’s member agencies. **Continued...**

Distribution System Reliability Program

- Palos Verdes Reservoir Rehabilitation. This project replaces the reservoir’s existing floating cover and liner, and modifies the existing spillway, control tower, and outlet structures. Construction is 88 percent complete and is expected to be complete in late 2018. (see photo right page)



PV—Installation of the liner composite drainage course

Right-of-Way and Infrastructure Protection Program

This program performs needed site improvements throughout the distribution system, including 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 enable system-wide improvements. Recent activities include the following:

- Orange County Operating Region. Final design of improvements is divided into two specification packages. The first package was completed in December 2017, while the second was completed in May 2018. Preparation of environmental documentation is complete, and permit applications for both packages have been submitted to the California Department of Fish and Wildlife (CDFW) and the U.S. Army Corps of Engineers for review. Staff received a draft permit from CDFW and is preparing a response to address proposed restrictions and requirements. Permit applications are expected to be issued by the permitting agencies by September 2018.
- Western San Bernardino County Operating Region. Final design of improvements is 80 percent complete and is scheduled to be complete in late 2018. The draft programmatic environmental impact report for this region is planned to be released for public review in January 2019.
- Riverside/San Diego County Operating Region. Preliminary design of improvements is 99 percent complete and is scheduled to be complete by August 2018.
- Los Angeles County Operating Region. Preliminary design of improvements is 99 percent complete and is scheduled to be complete by August 2018.



Orange County Service Center – Setting of sewer manhole shafts

ENGINEERING SERVICES GROUP

GM STRATEGIC PRIORITY: Enhance Infrastructure Safety, Security and Resiliency

Objective: Manage and execute Board-authorized projects within the Capital Investment Plan (CIP) to ensure the reliable delivery of water to Metropolitan's member agencies. **Continued...**

Prestressed Concrete Cylinder Pipe (PCCP) Reliability Program

This program was established to enhance the reliability of Metropolitan's water distribution system and to reduce the risk of costly emergency repairs of PCCP pipelines. The priority pipelines included in the program are the Second Lower Feeder, Sepulveda Feeder, Calabasas Feeder, Rialto Pipeline, and the Allen-McColloch Pipeline. Recent activities include the following:

Second Lower Feeder PCCP Rehabilitation. This project rehabilitates the remaining 28 miles of PCCP segments within the Second Lower Feeder. Long-term rehabilitation of the Second Lower Feeder will be staged over a period of eight to ten years, with multiple construction and procurement contracts. The scope of the initial construction contract for Reach 1 includes lining approximately 4.4 miles of existing PCCP segments with a steel liner. Construction is

80 percent complete and is scheduled to be complete by August 2018. Final design of the second, third, and fourth reaches is 75 percent complete and is planned to be complete by October 2018.

Second Lower Feeder Pipe Fabrication. Fabrication of steel liner pipe for the next two reaches will provide approximately 21,100 feet of 75-inch-diameter welded steel liner pipe. Fabrication is five percent complete and the initial delivery of pipe for Reach 4 is scheduled to be complete by November 2018.

Second Lower Feeder Shutoff Valve Procurement. This contract provides 216 shutoff valves that will replace deteriorated valves along the length of the Second Lower Feeder. These valves range in diameter from 4 inches to 16 inches, and are used to control and isolate flow at air release/vacuum valve locations, dewatering vaults, and blowoff structures. Delivery of 150 valves is scheduled for September 2018. The remaining 66 valves will be delivered by September 2019.

Colorado River Aqueduct (CRA) Reliability Program

This program maintains the reliability of Metropolitan's CRA conveyance system. Recent activities include the following:

CRA Domestic Water Distribution System Replacement. This project replaces the potable water distribution systems at all five pumping plants in order to maintain reliable delivery of high-quality drinking water to the CRA pumping plants and villages. The project will replace 8.5 miles of main line piping and building laterals, and will add new backflow prevention devices, valves, meters, and remote water quality analyzers. Final design will be completed in three stages. Final design for the Hinds and Eagle Mountain Pumping Plants is 87 percent complete and is scheduled to be complete by December 2018. Final design for the Gene and Iron Mountain Pumping Plants is 57 percent complete and is scheduled to be complete by June 2019. Final design for Intake Pumping Plant is 13 percent complete and is scheduled to be complete by December 2019.

6.9 kV Switch House Building Seismic Upgrades. This project performs structural upgrades to the 6.9 kV

switch house at each CRA pumping plant. Construction is 95 percent complete and is scheduled to be complete by September 2018.

CRA and Iron Mountain Concrete Panel Repairs. This project replaces distressed and cracked concrete canal panels at Iron Mountain Reservoir and along several reaches of the canal between Mile Markers 22 and 122. Final design is complete and a request to the Board for award of a construction contract is planned for October 2018.

Employee Housing Rehabilitation. These projects perform comprehensive improvements to employee housing at the CRA pumping plants. Project No. 1 construction plan was for 10 new houses: two each at Hinds, Eagle Mountain, and Gene; and four houses at Iron Mountain. Construction was completed in June 2018. Project No. 2 refurbishes 89 houses that require minor or moderate levels of renovation. The initial construction is focusing on 20 houses under a pilot program. That work is 35 percent complete and is scheduled to be complete by July 2019.

CRA UPS Replacement. This project replaces the uninterruptible power supply (UPS) systems at the five CRA pumping plants. Each plant has a UPS system to

ENGINEERING SERVICES GROUP

GM STRATEGIC PRIORITY: Enhance Infrastructure Safety, Security and Resiliency

Objective: Manage and execute Board-authorized projects within the Capital Investment Plan (CIP) to ensure the reliable delivery of water to Metropolitan's member agencies. **Continued...**

Colorado River Aqueduct (CRA) Reliability Program

prevent fluctuations in power quality and to serve as a backup in case of loss of power. Construction is five percent complete and is scheduled to be complete by May 2019.

Intake Power Line and Communication Replacement. This project relocates a power transmission line that serves the Intake Pumping Plant and several remote CRA facilities. The construction contract was awarded in July 2018 and construction is scheduled to be complete by June 2019.

Auxiliary Power System Rehabilitation at Iron Mountain Pumping Plant. The auxiliary system provides power to support critical equipment such as discharge valves, station power, and systems that cool the main pumps. Preliminary investigations for Hinds, Eagle Mountain, Gene and Intake Pumping Plants are 20 percent complete and are scheduled to be complete by April 2020. Preliminary design for Iron Mountain Pumping Plant is five percent complete and is scheduled to be complete by March 2019.

Treatment Plant Reliability Program

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

Weymouth Plant

- Weymouth West Washwater Tank Seismic Upgrades. This project performs seismic strengthening and refurbishment of the west washwater tank at the Weymouth plant. Construction is 10 percent complete and is scheduled to be complete by May 2019.

Diemer Plant

- Administration Building Seismic Upgrades. This project performs seismic and fire safety upgrades on the Administration Building at the Diemer plant. Construction is 95 percent complete and is scheduled to be complete by September 2018.
- Diemer Basin and Filter Building Rehabilitation. This project rehabilitates aging mechanical equipment and electrical/structural components inside the flocculation/sedimentation basins, seismically strengthens the filter buildings, and replaces aging filter valves and actuators. Rehabilitation of the east basins and filters was completed in 2017. Final design for the west basins and filters was also completed. Bids will be opened in August 2018.

Jensen Plant

- Electrical Upgrades. This project replaces electrical equipment, provides backup in the event of individual component failures, and upgrades the Jensen electrical system to be consistent with current codes and industry practices. The work will be completed in three stages. Construction of Stage I was completed in July 2018. Final design of Stage 2 is 88 percent complete and is scheduled to be complete by August 2019.

GM STRATEGIC PRIORITY: Maximize Local Resources

Objective: Develop and support opportunities to collaborate with other agencies to enhance local water supplies.

Regional Recycled Water Program

- Advanced Water Treatment Demonstration Plant. This project constructs a 0.5 mgd demonstration facility on the grounds of the Los Angeles County Sanitation District's Joint Water Pollution Control Plant. Construction is 50 percent complete and is scheduled to be complete by the end of 2018.

ENVIRONMENTAL PLANNING SECTION

GM STRATEGIC PRIORITY: Enhance Infrastructure Safety, Security and Resiliency

Metropolitan's vast network of aqueducts, pipelines, pumps and treatment facilities are the backbone of Southern California's regional water system. However, this vital infrastructure is aging and heightened reinvestment in this system is essential to ensure Metropolitan can continue to deliver on its promise of reliability in the coming decades.

Objective: Provide planning, CEQA/NEPA (National Environmental Policy Act), and regulatory permitting support for enhancement of infrastructure, safety, security, and resiliency.

CEQA/NEPA

- Finalized Addendum to the EIR for the Palos Verdes Reservoir Upgrades Project and participated in a site tour for the City of Rolling Hills Estates and West Basin Municipal Water District.
- Met with CalTrans regarding CEQA documentation to obtain a right of entry and encroachment permit for the Perris Valley Pipeline Interstate-215 project and supported CEQA clearances for exploratory boring and potholing activity.
- Provided environmental clearance for Safety of Dams Team for geotechnical work to correct erosion and slippage on the Diemer Basin 8 slope.
- Coordinated with CDFW to finalize terms and conditions of protection measures, mitigation, and conservation strategy for the unarmored threespine stickleback.
- Coordinated biological surveys and monitoring and provided notification to CDFW for the removal of sediment and vegetation adjacent the Lake Skinner spillway under the Streambed Alteration Agreement for Lake Skinner routine maintenance projects.
- Submitted the 2017 Annual Work Plan and Mitigation Report to CDFW for Lake Skinner routine maintenance projects per the requirements of the Streambed Alteration Agreement.
- Drafted an amendment to the Water Resource Development Act agreement with the U.S. Army Corps of Engineers to extend the funding period to September 2020.

Regulatory Permitting and Compliance

- Received Draft Incidental Take Permit for the Foothill Feeder shutdown. The permit for the state fully-protected unarmored threespine stickleback is only allowable due to Metropolitan's legislative

GM STRATEGIC PRIORITY: Ensure Imported Supply Reliability

Southern California's foundational water supply remains the Colorado River and the State Water Project and their ongoing reliability is critical for the region. Important decisions on both supplies need to be made over the next two years.

Objective: Provide environmental planning, technical and regulatory services to protect water supplies.

- Reviewed the Biological Assessment of the effects of the Oroville incident and prepared a summary for the State Water Contractors General Manager and Lake Oroville Relicensing Team.
- Completed CEQA compliance for an amendment to the existing agricultural leases in the Palo Verde Valley.

GM STRATEGIC PRIORITY: Promote Environmental Stewardship and Sustainability

Metropolitan will continue to lead with programs that promote actions that support sustainable practices, reduce greenhouse gas emissions and protect natural habitat and water quality.

Objective: Continue to actively manage Metropolitan's conservation lands through cooperative relationships with public agencies and non-governmental conservation organizations.

Lake Mathews Reserve

Participated in the coordination of a prescribed burn on reserve lands between El Sobrante Road and Lake Mathews. (see photo next page)

ENVIRONMENTAL PLANNING SECTION

GM STRATEGIC PRIORITY: Promote Environmental Stewardship and Sustainability continued...

Southwestern Riverside County Multi-Species Reserve (MSR)

- Participated in the coordination of a prescribed burn that was conducted in the South Shore area of the MSR.
- Met with Riverside County Regional Parks and Open Space District to discuss the Reserve trails planning effort and a Request for Proposal for a consultant to prepare the trails plan.
- Coordinated with External Affairs on the closure of public access to DVL due to algal bloom. Identified locations where the public could access the lake during the closure and placement of signage.



Prescribed burn of the South Shore area of the Southwestern Riverside County Multi-Species Reserve (story page 10)

Objective: Support External Affairs in development and implementation of interpretive, public outreach, and public access programs to promote appreciation for and understanding of the benefits of conservation lands to Metropolitan, the public, and the environment.

Prepared an article for a July installment of the External Affairs weekly WaterTalk newsletter. The article, entitled Preserving Cultural Treasures and Artifacts, centered on the diverse history unearthed during the 1997 archaeological excavations for the Headquarters building.

Objective: Work with Water System Operations to develop landscaping practices to promote aesthetically pleasing sustainable landscapes at Metropolitan facilities to conserve water and support wildlife, as appropriate.

- Coordinating with the Technical Control Team to update Section 02950 (Planting) of the specifications to incorporate information on invasive species, use of native plants for landscaping, and integration of stormwater as winter irrigation for native plants.
- Coordinating with the Desert housing team to landscape new homes with native desert plants, stormwater infiltration/irrigation, and soil moisture meters to integrate both stormwater and supplemental irrigation.

Objective: Continue cultural resources planning and education to protect and preserve the historic legacy of Metropolitan.

- Completed mapping of cultural resources in the vicinity of West Valley Feeder Nos. 1 and 2.
- Began review and integration of cultural resource files stored at the Douma House.

ENVIRONMENTAL PLANNING SECTION

CORE BUSINESS: Business Processes

Objective: Provide timely and professional planning services and CEQA and regulatory support to Engineering Services, Water System Operations, Water Resource Management, External Affairs, and Real Property.

CEQA Clearances

Provided environmental planning clearances for 7 WSO projects, 12 Real Property actions, and 9 board letters.

Construction Monitoring

- Initiated construction monitoring for the Weymouth West Washwater Tank Seismic Upgrades Project. A cultural report to comply with state law will be prepared for the cultural resource mitigation measure identified in the 2005 Weymouth EIR, as well as construction monitoring for air quality, noise, and traffic.
- Continued construction monitoring activities for the Diemer Filter Outlet Conduit Seismic Upgrades Project, Whitewater Colorado River Aqueduct Erosion Protection Project, Palos Verdes Reservoir Upgrades Project, Garvey Reservoir Permanent Drainage and Erosion Control Project, Orange County Conveyance and Distribution Team Maintenance Building, and the PCCP Second Lower Feeder Relining Project - Package 1.
(see photo below)

WSO Support

- Conducted environmental awareness training at a Construction Services Unit all-hands staff meeting.
- Coordinated with WSO staff on installation of bird deterrent devices for the Diemer plant filter basins.
- Provided bird surveys and ideas for bird nesting deterrence methods for Jensen Plant Flocculator Rehabilitation Project.
- Conducted nesting bird surveys and preconstruction surveys in support of WSO activities and dewatering events, including surveys along the Lakeview Pipeline, Perris Bypass Pipeline, Jensen plant, and Diemer plant.

External Project Review

- Commented on 14 CEQA notices for various external projects that may impact Metropolitan facilities and/or operations.

Miscellaneous

- Updated Section 01065 (Environmental Requirements) regarding Air Quality and Migratory Bird Treaty Act, and created a new Master Specification Section 01565 (Noise Control), which is under review.
- Coordinated with WSO to organize a release of water from the Lower Feeder in support of western pond turtle habitat enhancement at Bolton Ponds, a Western Riverside County Multi-Species Reserve Conservation Program area near Lake Mathews. Obtained a minor amendment to an existing California Department of Fish and Wildlife Streambed Alteration Agreement to release water to the drainage.
- Identified red spotted toad eggs at Eagle Mountain reservoir near radial gate replacement project and adult red spotted toads at Iron Mountain Pump Plant. This is the first observance of this species along the Colorado River Aqueduct in at least 20 years.



Site visit to provide a tour and update of the construction activities at Palos Verdes Reservoir to the City of Rolling Hills Estates.

EXTERNAL AFFAIRS GROUP

EXTERNAL AFFAIRS PRIORITY: Advance Initiatives to Educate and Inform the Public, Elected Officials and Stakeholders on Water Supply Conditions and Important Water Management Decisions.

External Affairs will develop and maintain relationships with the public, legislative leaders, government officials, non-governmental organizations, and other stakeholders, and implement effective and diverse communication and outreach strategies on the value of water, current water supply conditions, innovative strategies to address current and future challenges, and the importance of Metropolitan actions and leadership to promote stewardship, planning and investments to benefit the region.

Objective: Recognizing there is a new normal that is directly impacting California water conditions, driven in part by more volatile supply conditions due to climate change, inform key stakeholders, news media, businesses and the public on the need for sustained conservation actions, support for new water supply projects and continued investment in imported water systems to maintain water supply reliability and protect the environment.

- Metropolitan’s Colorado River Aqueduct and Hoover Dam were each featured on PBS’s *10 Modern Marvels That Changed America*, which aired on July 24. The segment included an interview with General Manager Kightlinger discussing the massive pumps and tunnels that were constructed to deliver Colorado River water to Southern California. (see [photo right](#))
- Metropolitan podcast was posted featuring General Manager Kightlinger discussing Metropolitan being in water “balance” due to ongoing investments in conservation and local resources despite a low 35 percent State Water Project allocation. (July 30)
- Metropolitan podcast was posted featuring Water Efficiency Manager Bill McDonnell discussing Metropolitan’s new landscape transformation rebates and other conservation incentives available through Metropolitan’s regional conservation program. (July 23)
- General Manager Kightlinger provided a presentation on the current and future state of water supplies for Southern California to Los Angeles civic leaders at the Jonathan Club. (July 11)
- Chairman Record, Vice Chair De Jesus, Directors Morris and Galleano, and Metropolitan staff attended the quarterly luncheon of the Southern California Water Coalition, held at the Casino Morongo Conference Center in Cabazon, CA. (July 20) (see [photo right](#))



GM Kightlinger filming PBS segment



Hasencamp discusses the Colorado River, Salton Sea, and Colorado River Contingency Plan

EXTERNAL AFFAIRS GROUP

CORE BUSINESS: Legislative, Communications, Community Relations, Public and Business Outreach

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. Inform the public about Metropolitan projects, facilities, operations and initiatives to gather input and support, foster competitive and diverse business opportunities, and facilitate innovation and technology sharing.

Objective: LEGISLATIVE SERVICES - Develop and implement local, state and federal legislative and regulatory strategies consistent with Board-adopted policies. Promote interaction between Metropolitan leadership and various stakeholders, including elected officials, to facilitate support for, and garner greater understanding of, water policy issues.

Federal

Staff worked with House and Senate Appropriations Committees to promote Metropolitan's support for full funding for the Colorado River Salinity Control Program within the FY2019 Interior, Environment and Related Agencies Appropriations. Staff also worked with other members of the Salinity Management Program to secure language in the Farm Bill's Environmental Quality Improvement Program that would facilitate federal funding for conservation measures. (July 23-25)

State

State Budget: On June 27, Governor Brown signed the budget that was near \$200 billion. The new budget grows the balance in the Rainy Day Fund to an unprecedented \$13.8 billion. The budget also includes \$1.4 billion in the Cap-and-Trade Expenditure Plan to invest in programs that further reduce carbon pollution and support climate resiliency efforts.

Wildfire-Related Issues: On July 2, Governor Brown and the legislative leadership announced the formation of a conference committee to strengthen disaster preparedness and establish policies to respond to increasing wildfire dangers. Senate members on the conference committee include: Democrats Dodd (Co-Chair), Ben Hueso (San Diego) and Hannah Beth-Jackson (Santa Barbara) and Republicans Jeff Stone (Riverside) and Anthony Cannella (Ceres). From the Assembly, conference committee members include: Democrats Chris Holden (Co-Chair from Pasadena), Eloise Reyes (San Bernardino) and Jim Wood (Healdsburg), and Republicans Brian Dahle (Minority Leader from Bieber) and Chad Mayes (Yucca Valley). The conference committee is likely to tackle a broad range of issues, including condemnation and strict liability, emergency preparedness and enhancements, vegetation management, cost recovery and wildfire risk mitigation planning. More than 40 bills related to wildfires have been making their way through the legislative process this year alone.

Local

- Metropolitan staff presented on water supply reliability at the Santa Monica Chamber of Commerce's Government Affairs Committee. (July 9)
- Metropolitan sponsored and staff attended Pacoima Beautiful's Environmental Justice Awards. The event honored California Assembly Speaker Anthony Rendon (D-Lakewood) and Los Angeles City Councilmember Monica Rodriguez. (July 12)
- Director Blois and staff attended the Oxnard Chamber's Lunch to meet the new City Manager of Oxnard. Over 120 business leaders and local elected officials attended. (July 12)
- Metropolitan staff participated in a Los Angeles County Business Federation Leadership Roundtable with California Senate President pro Tempore Toni Atkins (D-San Diego). (July 16)
- Metropolitan sponsored and Director Ballin and staff attended the Independent Cities Association's annual summer conference held in Carlsbad, California. More than 200 local elected officials and city leaders attended the conference. (July 13-15)
- Metropolitan staff attended the Valley Industry and Commerce Association Newsmaker Connection Breakfast with guest speaker Austin Beutner, the new Superintendent of the Los Angeles Unified School District. Over 75 business leaders attended the event. (July 19)
- Metropolitan staff provided a presentation to the Asian Business Association – San Diego Chapter on the California WaterFix. In addition, staff from the Business Outreach Section explained how to do business with Metropolitan. (July 24) *(see photo on page 17)*

EXTERNAL AFFAIRS GROUP

CORE BUSINESS: Legislative, Communications, Community Relations, Public and Business Outreach continued...

Objective: MEDIA AND COMMUNICATIONS - Communicate Metropolitan's policy priorities, actions and initiatives through various means to raise public awareness, enhance Metropolitan's visibility and cultivate support for Metropolitan priorities. Update and develop new communications tools, materials and platforms to ensure Metropolitan information reaches diverse audiences throughout its service area in a cost-effective, timely, relevant manner that reflects current communications trends.

Media Activities and Interviews

- Arranged interview between General Manager Jeffrey Kightlinger and Griffin Baumberger of KCRW's *All Things Considered* program regarding the Board's California WaterFix action.
- Arranged interview between General Manager Kightlinger and Bloomberg Environment reporter Emily Dooley regarding the next steps for California WaterFix.
- Arranged interview with General Manager Kightlinger and Sacramento Bee reporter Ryan Sabalow about California WaterFix's Delta Conveyance Finance Authority.
- Set up interview between Metropolitan Water Quality Manager Stewart and KABC-TV Channel 7 News' Rob McMillan regarding algal bloom at Diamond Valley Lake.
- Arranged interview with Metropolitan microbiologist Paul Rochelle and KNBC-TV Channel 4 News' Alex Vasquez about shutting down DVL to recreation in response to algal bloom.
- Taped interview with Water Quality Manager Stewart and KNX-AM 1070 Newsradio's Jonathan Serviss about algal bloom at DVL.
- Coordinated interview between General Manager Kightlinger and reporter Jim Carlton of the *Wall Street Journal* regarding drought contingency plans for the Colorado River and related issues in Arizona.
- Set up interview with Water Quality Manager Stewart and producer Lori Galarreta of KPCC's Take Two program about the relation of calcium carbonate to salinity in Los Angeles area water.
- Arranged interview between General Manager Kightlinger and Joshua Emerson Smith of the *San Diego Union Tribune* for a story on water supplies' costs and benefits.
- Set up interview between Water System Operations Assistant Group Manager Yamasaki and Santa Clarita Signal's Jim Holt on Foothill Feeder connection project.

Press Release

- Issued a press release on the July 10 vote by the Metropolitan Board to provide the financing needed for the construction of California WaterFix.

- Issued a press release on the launch of Metropolitan's Landscape Transformation Program and the Metropolitan's "365" summer advertising and outreach campaign, encouraging consumers to conserve water every day and reminding them to take advantage of Metropolitan's rebate programs.
- Issued a press release on Director Phillip Hawkins rejoining the Metropolitan Board as a representative of Central Basin Municipal Water District.

Online, Website and Social Media

Metropolitan unveiled several social media assets, including animated posts, short videos as well as Instagram stories—all focused on driving users to bewaterwise.com for rebate information. There were over 26,500 users who visited the English, Spanish, and Chinese versions of the bewaterwise.com web pages for the month.

Completed and posted three videos on Metropolitan's Apprenticeship Program for desert recruitment. The videos have been some of the strongest performing social media assets in terms of engagement, reaching more than 200,000 people. The posts generated several thousand clicks, directing people to apply for the program.

The July Garden of the Month features dry river beds – a sustainable landscaping approach in the new Landscape Transformation Program. Gardening resources on bewaterwise.com emphasize sustainable landscaping methods and their impact on water savings. Viewers can learn about the benefits of dry river beds in their garden and be inspired to utilize this method should they participate in the program.



EXTERNAL AFFAIRS GROUP

CORE BUSINESS: Legislative, Communications, Community Relations, Public and Business Outreach continued...

Objective: PUBLIC OUTREACH AND MEMBER SERVICES - Conduct public outreach to increase awareness and input on Metropolitan projects and initiatives and ensure impacted communities are aware of Metropolitan construction and maintenance activities. Enhance public awareness of Metropolitan's systems and facilities and the role they play in regional supply reliability while protecting environmental resources. Serve as liaison to Metropolitan's member agencies and facilitate their engagement with Metropolitan.

- Met with the Member Agency Public Information Officers to provide updates on California WaterFix, Colorado River issues, the "365" conservation campaign, and an upcoming study on conservation outreach by the California Data Collaborative. (July 13)
- Provided a tour of future worksites for the next phase of the Second Lower Feeder Relining Project for staff of Long Beach Councilmember Stacy Mungo. (July 18)
- Met with the City of Upland Public Works Director and staff to discuss upgrades and a planned shutdown of the Rialto Pipeline. (July 19)
- Provided 450 notices to businesses and residents in preparation for the upcoming Sepulveda Feeder shutdown. (July 20-23)
- Met with the Member Agency Managers to discuss cyanobacteria management, free chlorine disinfection for nitrification control, and conservation programs and disadvantaged communities.

Objective: EDUCATION AND COMMUNITY RELATIONS - Facilitate public engagement in and understanding of water resource issues through community relations activities and education projects. Build awareness of and appreciation among Southern California for the value of clean, reliable water supplies and the importance of good water stewardship.

Diamond Valley Lake Education Program

Staff hosted more than 510 visitors at the Visitor Center and guided nearly 310 visitors to the Clayton Record Viewpoint.

General Education

Education staff supported and presented at the American Water Works Association Conference.

Metropolitan's 2018 Student Art Exhibit, showcased throughout the six-county service area, concluded at Western MWD, Municipal Water District of Orange County, and Eastern MWD. The artwork is displayed weekly on bewaterwise.com.

Education Manager Hightower was interviewed on KTLA Sunday Morning at the Kidspace Museum in Pasadena, California regarding the importance of teaching children about water conservation and having fun games that children can play to learn more on the topic. Metropolitan had virtual reality goggles on display that show Metropolitan's infrastructure and the path water takes to get from Parker Dam to Southern California. (July 1) *(see photo right)*



Education Manager and staff at Kidspace Museum in Pasadena, California

EXTERNAL AFFAIRS GROUP

CORE BUSINESS: Legislative, Communications, Community Relations, Public and Business Outreach continued...

Objective: BUSINESS OUTREACH AND INNOVATION - Facilitate opportunities for small businesses to work with Metropolitan. Help position Metropolitan as a leader in water innovation.

Metropolitan supported small businesses throughout the region through its presentations, participation, and sponsorship of the following programs, conferences and events including:

- San Diego’s CONNECT Accelerator in San Diego. The workshop program included discussions about Metropolitan’s innovation programs and how entrepreneurs can help water utilities discover new technologies. The event was attended by nearly 120 local businesses and San Diego communities. (July 10)
- Los Angeles Metro’s How To Do Business Workshop. (July 10)
- National Association of Women Business Owners – Orange County Chapter’s Board Installation. (July 10)
- San Diego Unified School District Construction Expo. (July 11)
- L.A. Latino Chamber of Commerce Awards Luncheon. Business Outreach staff also participated in the Match-Making Session. (July 12)
- National Association of Women Business Owners in Ventura County’s Board Installation. (July 17)
- American Indian Chamber of Commerce’s 15th annual Expo in Agua Caliente. This year’s theme, *Collaborating Today to Build Tomorrow*, continues the tradition of strengthening American Indian businesses so they can equally participate in various types of public and private procurement opportunities. The Expo was attended by 400 participants. (July 24)
- Women Business Enterprise Council, West Business Network Mixer in San Diego. (July 25)
- Southern California Minority Supplier Development Council, Supplier of the Year Award. (July 25)
- 13th annual CalCon Expo 2018 held at the Anaheim Convention Center. The CalCon Construction committee is comprised of several public entities throughout the state of California that join together to generate participation, information, and education on public works for future billion dollar projects within the Southern California construction industry. Over 1,000 participants attended the Expo. (July 19-20) *(see photo below)*

Business Outreach staff providing information and education to attendee at CalCon expo.



Asian Business Association’s San Diego board member Eddie Chen, with President and CEO Wendy Urushima-Conn, and Metropolitan’s Water Resource Manager Goshi (story page 14)

HUMAN RESOURCES

GM STRATEGIC PRIORITY: Foster Leadership and Strengthen Workforce Capabilities

More than half of Metropolitan's workforce has reached retirement age, including many members of Metropolitan's executive management team. This is a challenge to Metropolitan's capacity to adequately train and prepare its workforce but is also an opportunity to build a workforce geared for the challenges of the future.

Objective: Partner with Metropolitan leadership to support learning, development and workforce planning initiatives.

Delivered 2-hour computer training classes on:

- *PowerPoint: Creating and Designing Slides, Inserting Graphics,*
- *Excel: Formulas and Functions, Pivot Tables Workshop, Advanced Features, Macros*
- *WORD: Mail Merge Workshop, Advanced Features, Professional Reports*
- *Outlook: Tips and Tricks*
- *OneNote*
- *Access: Basic Queries*

Other classes:

- Staff offered *Success Signals for Communication Styles* to help employees better understand the impacts of different communication styles in the workplace.
- Delivered training at the Weymouth plant *Moving from Conflict to Collaboration*, on enhancing teamwork in the workplace.
- Five managers attended an Institute for Management Studies seminar on *Building Engagement, Teamwork and Results to Become a Leader That Others Want to Follow*, presented by Dr. Jan Ferri-Reed.
- Starlight Education provided a training class at Lake Mathews on *Developing Your Emotional Intelligence*.

Objective: Seek diverse, high-quality talent, and establish partnerships to discover additional outreach opportunities that aid in staffing positions.

- Recruitment filled 18 positions for the month of July.
- Received 32 new staffing requisitions resulting in 156 positions currently in recruitment.
- The announcement of the Desert Pre-Apprentice Recruitment has been posted. In coordination with External Affairs, three video shorts were released on Facebook to demonstrate life as a mechanic / electrician at the desert facilities.
- Expanded outreach efforts for desert employment opportunities, including the Pre-Apprentice recruitment, into Arizona holding over 15 informational sessions in Parker, Lake Havasu City, Bullhead City, Kingman, Phoenix, Prescott Valley, Tucson, and Yuma. New outreach partnerships in these cities were also developed.
- Participated in the Hire LA Summer Youth Program. This year, 13 student youth interns are working during the summer months in Human Resource, Contracts, Engineering Services, Records Management, Legal, Water Resource Management, Water System Operations and Information Technology.

Objective: Implement employee engagement programs to ensure Metropolitan is a competitive organization.

Launched the MetFit Health Fair at Headquarters with 29 vendors providing a wide range of events to support employee activities to achieve healthier behaviors for a positive lifestyle including body composition scans, fit testing, free biometric health screenings, nutritional product samples, blood glucose testing, healthy cooking demonstrations, blood pressure screenings, free 10-minute massages, and healthy snacks and beverages. ([see photos page 20](#))

General Manager announced an addition to the MetFit Wellness program with Fitbit Challenges. These challenges provide an exciting new way for employees to motivate themselves while also motivating their co-workers to increase their activity levels. With these Fitbit challenges, employees can compare their activities in direct competition with other teams and also have a chance to challenge their own activity levels compared to the activity level of the General Manager.

HUMAN RESOURCES

HR PRIORITY: Ensure Effective People Management

Partner with management to ensure that employees are appropriately managed, evaluated, engaged, motivated, developed, and recognized. Provide opportunities for career development, skills training, and knowledge capture in order to prepare for the future.

Objective: Ensure Metropolitan managers have foundational knowledge, on-going support to effectively manage employees, and the tools to prepare for a changing workforce.

Conducted Module 4 of Metropolitan Management University Graduate level on Mastering Communication.

HR PRIORITY: Strengthen Partnerships with HR Customers

Collaborate and partner with customers at all levels to support strategic decisions on workforce planning, hiring strategies, advancement and learning opportunities, disciplinary issues, and other challenges as they arise.

Objective: Establish partnerships focused on strategic solutions to various Human Resource management challenges.

- Employee Relations worked with AFSCME Local 1902 to implement discontinuation of agency shop service fees and charitable deductions of religious objectors, in accordance with the United States Supreme Court's ruling in Janus v. AFSCME issued on June 27, 2018.
- Staff conducted a team-building workshop and a Communication Styles Using Success Signals class for 30 Legal Department attendees.
- Partnered with Real Property, Water System Operations, and bargaining units as part of the Desert Housing Working Group.

HR PRIORITY: Provide Excellent Human Resources Services

Human Resources provides a wide range of services and support from pre-hire to post-retirement care. HR policies, procedures, and practices will be reviewed and revised as appropriate. HR will continually improve service and better utilize technologies.

Objective: Continue to upgrade HR's technological capabilities by seeking out technological advancements that will best serve HR's customers.

Established a schedule and project team for implementing a new and improved MyLearning system. This system will have easier access to training, improved roster management, and be mobile friendly. Implementation scheduled for early 2019.

Benefits, HR Information System, IT, and Payroll completed the PeopleSoft upgrades to the HRIS system and MyHR that went live on July 10.

Objective: Administer all HR services with efficiency and a focus on customer service excellence, consistency, and flexibility.

- Worked with Empower Retirement to transition the 401(k) and 457(b) plans from TIAA Financial.
- Worked with HR Information System, HR Staffing, and Payroll to complete the first annual Employer Certification report.
- Continued working with CalPERS and coordinating with Payroll and Employer Relations to close the final CalPERS audit findings regarding the Fair Labor Standards Act overtime reporting for new members, and Memorandum of Understanding language clarifying details on the 12.5 hour shift schedule.
- Worked with Venbrook Insurance on renewal rates, plan updates, and competitive quotes from other providers for health and voluntary benefit renewals in preparation for open enrollment, which is expected to launch September 17, 2018 for calendar year 2019.

HUMAN RESOURCES

CORE BUSINESS: Prepare to Meet Challenges of Future Workforce Changes

Human Resources can provide a wide range of services and support to ensure that Metropolitan positions itself for future workforce changes, by maintaining a collaborative and inclusive work environment, as well as a diverse workforce.

Objective: Promote an inclusive and collaborative workplace, maintain robust policies and procedures to ensure diversity, and prevent harassment and discrimination.

New mandatory Unlawful Workplace and Sexual Harassment Prevention online training courses for employees were rolled out. The manager version of the course complies with California’s legal requirement of two hours of harassment prevention training for supervisors.

CORE BUSINESS: Comply with Employment Laws and Regulations

Ensure all policies, programs, and practices comply with ever-changing laws and regulations. Compliance with applicable laws and policies requires monitoring and analyzing changing requirements, determining impact on Metropolitan management and staff, and implementing any changes necessary to maintain compliance. In addition, these changes must be clearly communicated to all customers as necessary, with any needed training provided, as appropriate.

Objective: Effectively administer all Human Resources policies, programs, and practices in compliance with applicable federal and state laws and Metropolitan’s Administrative Code, Operating Polices, and Memorandum of Understanding.

Activities for the Workers’ Compensation/Medical Screening Unit are summarized as follows:

- Submitted 7 new claims to Metropolitan’s workers’ compensation claim administrator
- Negotiated settlements in 2 claims and closed 11 claim files
- Conducted MedVan evaluations at Diemer and Lake Mathews facilities
- Arranged 7 medical evaluations (DMV, medical surveillance, hearing conservation, etc.)
- Coordinated 3 random drug/alcohol tests
- Addressed 3 accommodation issues

MetFit Health Fair, story page 18



INFORMATION TECHNOLOGY

CORE BUSINESS: Information Technology

Collaboratively work with customers to deliver information technology options, services, and solutions in the areas of enterprise and business applications, Engineering Services and Water System Operations applications, data analytics, mobile/wireless computing, telecommunications, network services, information security, and personal computing..

Objective: Strengthen Metropolitan's cyber security capabilities by deploying new and emerging technologies, and implementing enhanced security countermeasures.

- Continued on-going efforts to enhance Metropolitan's cybersecurity position as part of Cyber Security Remediation Phase I Project. This project is scheduled to complete by December 2018.
- Initiated planning for Cyber Security Remediation Phase II in preparation for Board action in December 2018 to request authority and funding to proceed with the next phase of cybersecurity enhancements.

Objective: Provide IT services in support of the Headquarters Improvements Program.

- Completed procurement of networking equipment as part of IT infrastructure upgrade within the annex wing portion of the headquarters building to support future staff relocation to the wing.
- Continued to work in collaboration with Engineering Services on relocation planning and required IT Infrastructure upgrades in support of the Headquarters Improvement Program.

Objective: Manage Information Technology Projects within the Capital Investment Plan to ensure reliability of IT Systems and Infrastructure.

- Board and Committee Room Upgrade. This project replaces end-of-life audio/visual equipment within the Board and Committee rooms. To date, staff completed 30 percent of the preliminary design phase.
- Desert Microwave Project. This project is to upgrade desert microwave tower sites to replace end-of-life equipment and provide sufficient capacity and reliability to Metropolitan's wide area network in the Desert Region. Staff initiated the process to select an Owners Engineer (consultant) to support Metropolitan on this project.

Objective: Modernize Operational Technology and Control System Upgrades as part of the Capital Investment Plan.

Wadsworth Pumping Plant (DVL) Control System Upgrade Project. This project replaces the control and communications systems, protection relay system, vibration monitoring system, and pump/turbine drive controls. During this period, installation activities were initiated as part of replacing and upgrading the control and electrical equipment.

Remote Terminal Unit (RTU) Replacement Project. This project replaces RTU field computers with an updated operating system and hardware that will improve cybersecurity protection and increase reliability with solid-state drive technology. Deployment at various field locations and treatment plants is underway. To date, approximately 37 percent of the devices have been installed.

System-wide Control System Upgrade. This project replaces Metropolitan's primary control system, and is currently in the conceptual design phase. During this period, staff conducted a management update concerning the control system architecture alternatives analysis, reviewed the consultant's control system architecture alternatives analysis deliverables, and received the draft automated meter reading communications alternatives deliverable.

INFORMATION TECHNOLOGY

Objective: Improve Metropolitan's IT Disaster Recovery and Response Capability.

IT Disaster Recovery Project. This project is to upgrade server, storage, databases, and backup devices at the IT Disaster Recovery Facility datacenter to provide sufficient capacity to run critical systems concurrently in the event of a disaster.

- Completed hardware configuration and software install in preparation for initial testing.

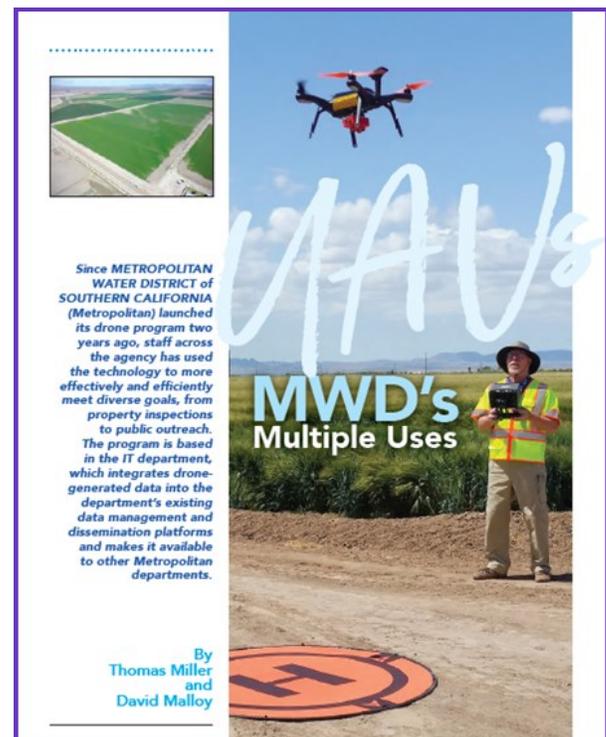
- Current efforts include planning for data migration, testing, and deployment phases.
- Next steps include pilot testing for selected databases.

Objective: Provide leadership, planning, and solutions in support of Metropolitan's Strategic Priorities.

- Partnered with key stakeholders on California WaterFix to provide IT Services, technology options, and solutions.
- Commenced Data Center Assessment to relocate Metropolitan's data centers as part of the Data Center co-location strategy.

Objective: Deploy innovative solutions to improve operations, promote collaboration, and provide business value.

- Conducted kick-off meeting to replace Metropolitan's desktop and laptop personal computers.
- Deployed a new Project Controls and Reporting System in Engineering Services Group.
- Expanded the use of Unmanned Aerial Vehicles (UAV) to support Metropolitan's key business objectives, including infrastructure and property inspections, environmental land monitoring, and videos for educational/promotional events. During this period, IT contributed to an article published by SOURCE and the CA-NV AWWA Section. The article featured Metropolitan's Drone Program and the use of UAV technology. IT staff featured in the article included Thomas Miller and Dave Malloy and how IT integrates drone-generated data for Metropolitan's business users. (see photo right)



Objective: Enhance workforce productivity by simplifying access to business information and deploy technologies to support customers in business decisions.

Water Ordering and Energy Scheduling System. This project implements a system that allows member agencies to submit flow change requests via a secure web page. In addition, it will replace existing Energy Management software that provides key functionalities for operational schedule management. Conducted a kick-off meeting during this period. Staff also initiated requirements workshops with Operations Control Center staff.

REAL PROPERTY

GM STRATEGIC PRIORITY: Enhance Infrastructure Safety, Security and Resiliency

Metropolitan's vast network of aqueducts, pipelines, pumps and treatment facilities are the backbone of Southern California's regional water system. However, this vital infrastructure is aging and heightened reinvestment in this system is essential to ensure Metropolitan can continue to deliver on its promise of reliability in the coming decades.

Objective: Provide right-of-way planning and real property acquisition services for infrastructure.

- A Right-of-Entry Agreement from March Joint Powers Authority was extended for an additional 60 days to perform potholing and geotechnical inspections in support of the Perris Valley Pipeline Construction Project.
- A construction storage site in Costa Mesa was leased from private-property owners for two years in support of the Orange County Feeder Relining Program.
- Received and closed escrow on ten manufactured homes at the Gene, Hinds, Iron Mountain, and Eagle Mountain facilities in support of the Employee Desert Housing Rehabilitation Program.

GM STRATEGIC PRIORITY: Foster Leadership and Strengthen Workforce Capabilities

More than half of Metropolitan's workforce has reached retirement age, including many members of Metropolitan's executive management team. This is a challenge to Metropolitan's capacity to adequately train and prepare its workforce but is also an opportunity to build a workforce geared for the challenges of the future.

Objective: Foster staff training and development.

- Staff attended Metropolitan-sponsored courses: *Reasonable Suspicion Training for Managers*, *Defensive Driver Training*, *Securing Human Awareness*, *High Rise Safety Program Training*, and *Outlook Calendar and Task Workshop*.
- Staff attended the International Right of Way Association-sponsored courses: *The Valuation of Partial Acquisitions and Conflict Management*.
- Staff attended Appraisal Institute-sponsored course: *Income Capitalization Approach II*.

CORE BUSINESS: Real Property Acquisition, Management and Revenue Enhancement

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

Objective: Manage Metropolitan's real property assets to support water system operations and water supply needs, and seek maximum revenue and reduce costs where possible.

- A Revocable Temporary Entry Permit was granted to The Collaborative Eagle Rock Beautiful non-profit organization to temporarily use Metropolitan property for the purposes of maintaining, repairing and replacing an existing hiking trail for the general public's use.
- An Entry Permit was granted to the City of Corona's Fire Department to use Metropolitan property, on Lake Mathews's Inlet Channel in the County of Riverside. The Fire Department conducts annual swift water training rescues to benefit public safety and emergency situations.
- An Entry Permit was granted to The California Department of Forestry and Fire Protection to use Metropolitan property. The property is located at the northeast quadrant of Lake Mathews in the County of Riverside within the Multi-Species Habitat Conservation Plan area. A controlled burned has been planned by CalFire. Benefits include reduction of conflagration fires, optimization of soil and water productivity and increased public safety. The prescribed fires are part of CalFire's Vegetation Management Program.

REAL PROPERTY

CORE BUSINESS: Real Property Acquisition, Management and Revenue Enhancement continued...

Objective: Pursue development and improvement of the Diamond Valley Lake area, including the DVL Visitor Center and marina facilities, in support of recreation, additional leasing and revenue opportunities.

- On July 27, DVL re-opened to recreational activities after a five-week closure caused by the bloom of cyanobacteria (blue-green algae) covering the lake.
- A three-day Southern California Global Sports League Adult Fast-Pitch Girls Softball Tournament was held at the Diamond Valley Community Park located near DVL and over 50 teams participated.
- DVL was rated number 7 in 2018's Bassmaster 100 Best Bass Lakes and #2 in the Western Region.

Link: <https://www.bassmaster.com/best-bass-lakes>

Objective: Efficiently maintain and operate Metropolitan's Headquarters Building, Diamond Valley Lake Visitor Center, and District Housing.

Staff collaborated with Engineering to prepare the building for the Headquarters Improvement Project pre-bid walk. This required cutting openings into walls to expose cladding and removing ceiling tiles to expose beams for purposes of investigating the "As-Constructed" conditions.

WATER RESOURCE MANAGEMENT

GM STRATEGIC PRIORITY: Prepare for More Extreme Hydrology

Staff will work closely with the Board to assess Metropolitan's storage capabilities, current strategies and review future needs to identify whether new strategies and/or new investments are needed.

Objective: Implement Conservation Program.

Energy Savings Program. On May 21, 2018, Metropolitan and Southern California Edison executed a Memorandum of Understanding to collaborate on water- and energy-efficiency programs. The MOU provides a vehicle for implementing programs that will allow SCE to participate with Metropolitan and augment water saving activities focusing on targeted sectors, populations, and technologies.

On July 9, presented information to brewery-sector employees at an SCE seminar entitled Mastering the Art of Sustainable Brewing. The seminar informed brewing companies on becoming more water and energy efficient. Staff presented information about Metropolitan's conservation rebates and incentive programs, with an emphasis on the Water Savings Incentive Program.

On July 11, participated in a seminar hosted by Southern

California Gas Company entitled Firescaping: Creating Fire Protected Properties. The seminar trained landscape professionals to make the landscapes they design and/or maintain more water and energy efficient, and in this case, more able to withstand fires and even retard fire progression. Provided information to the attendees on current hydrologic conditions and Metropolitan water conservation and efficiency incentives.

On July 9, the Water Use Efficiency Team launched the new Landscape Transformation Program as a new rebate option under the SoCalWatersmart rebate program. The new program provides rebates starting at \$1.00 per square foot for residential, commercial, and public agencies. Some member agencies and retail agencies are providing additional co-funding to their customers. More information can be found at:

http://www.socalwatersmart.com/?page_id=2967

WATER RESOURCE MANAGEMENT

GM STRATEGIC PRIORITY: Ensure Imported Supply Reliability

Southern California's foundational water supply remains the Colorado River and the State Water Project and their ongoing reliability is critical for the region. Important decisions on both supplies need to be made over the next two years.

Objective: Streamline approvals for future Sacramento Valley water transfers.

Received State Water Contractors Buyers Group Administrative Deposit Refund

In March, Metropolitan's Board authorized an agreement with the State Water Contractors (SWC) to join the SWC Buyers Group to pursue 2018 Sacramento Valley water transfer supplies and to pay an initial administrative deposit not to exceed \$500,000. In April, Metropolitan's Board adopted

staff's recommendation to not purchase 2018 Sacramento Valley water transfers supplies via the SWC Buyers Group. In July, Metropolitan received an administrative deposit refund of approximately \$489,000, which accounts for some administrative costs incurred prior to Metropolitan declining further participation.

GM STRATEGIC PRIORITY: Maximize Local Resources

Staff will begin work with the Board and member agencies on a review of the institutional issues associated with the Regional Recycled Water Program and its relationship to Metropolitan's ongoing Local Resources Program.

Objective: Support development of Regional Recycled Water Program (RRWP).

Met with State Water Resources Control Board's Division of Finance to expedite grant funding for the Regional Recycled Water Program demonstration facility. Up to 35 percent of construction cost or \$1 million is available through the SWRCB's Water Recycling Funding Program to pilot projects that advance new potable reuse treatment technology and expand the body of knowledge for water reuse

development in California. The 0.5 million gallon per day RRWP demonstration facility will use a unique application of membrane bioreactors to increase treatment efficiency of the non-nitrified secondary effluent, gain regulatory acceptance, and reduce costs. Staff anticipates approval of a grant application in the fall of 2018.

Objective: Implement Future Supply Actions Funding Program.

The Future Supply Actions Funding Program (FSA Funding Program) addresses future uncertainties like climate change by funding studies that remove barriers to the development of local groundwater, recycling, seawater desalination, and stormwater supplies. In April, the Board authorized staff to enter into an agreement with the Water Research Foundation (WRF) for seven reuse studies and also to implement Request for Proposals to co-fund member agency studies under the FSA Funding Program.

In July, staff finalized and executed the \$975,000 funding agreement with WRF for the seven reuse studies. Staff

held a kick-off meeting with WRF to begin implementing the agreement. Staff also released the \$3.5 million FSA Funding Program RFP to the member agencies on July 6, and held a webinar on July 26 to answer questions from the member agencies and other stakeholders. Proposals for the RFP are due on August 31. Additional information on the WRF studies and member agency RFP are provided on the program's website: www.mwdh2o.com/fsa.

WATER RESOURCE MANAGEMENT

GM STRATEGIC PRIORITY: Maximize Local Resources continued...

Objective: Collaborate with member agencies, water agencies and associations, and provide leadership for policy development, advocacy, outreach and education.

Metropolitan staff participated in a meeting of the Southern California Water Coalition (SCWC) Water-Energy Efficiency Task Force. SCWC is collaborating with the California Data Collaborative in developing an analysis of California’s outdoor water use, barriers to outdoor water use efficiency, and the potential energy savings from increased outdoor water conservation investments. One of the goals of SCWC’s study is to identify opportunities for Proposition 32 greenhouse gas funds to be used for outdoor water conservation

programs. Staff is providing expertise on water use data, conservation, and water-energy nexus factors to help in the study. SCWC plans to release potential recommendations from the study in time for Governor Brown’s Global Action Climate Summit in early September.

GM STRATEGIC PRIORITY: Maintain Sound Business Practices and Fiscal Integrity

Metropolitan will continue its longstanding practice of operating in a productive, cost-effective, transparent and efficient manner to ensure sound financial stability.

Objective: Support Office of the Chief Financial Officer.

Metropolitan received the 2019 statement of charges for the State Water Project. The overall 2019 statement is for \$554 million, a \$3 million increase from 2018. The fixed charge portion of the 2019 State Water Project is \$373 million. Estimated variable charges are estimated at \$180 million. Actual variable charges will depend on hydrology in 2019.

WATER SYSTEM OPERATIONS

GM STRATEGIC PRIORITY: Enhance Infrastructure Safety, Security and Resiliency

Metropolitan's vast network of aqueducts, pipelines, pumps and treatment facilities are the backbone of Southern California's regional water system. However, this vital infrastructure is aging and heightened reinvestment in this system is essential to ensure Metropolitan can continue to deliver on its promise of reliability in the coming decades.

Objective: Provide Reliable Water Deliveries.

Metropolitan delivered approximately 168,000 acre-feet of water to member agencies in July. July deliveries averaged approximately 5,400 AF per day, an increase of 400 AF per day from June deliveries. Treated water deliveries for July totaled 83,000 AF, or 49 percent of total deliveries for the month. This was an increase of about 13,000 AF from June treated water deliveries. The Colorado River Aqueduct has been operating at a 7-pump flow since June 14. A total of 96,000 AF of Colorado River water was pumped in July, averaging

3,100 AF per day. SWP imports averaged 2,700 AF per day, totaling 85,000 AF for July. This was an increase of 32,000 AF from June SWP imports. The target blends for the Weymouth and Diemer plants were 35 percent for the month of July. Due to DWR and Metropolitan maintenance activities in the Perris area and water quality issues at DWR's Lake Silverwood, the 35 percent blend target at Skinner plant began on July 20.

Objective: Ensure Water Quality Compliance, Worker Safety, and Environmental Protection.

Metropolitan complied with all water quality regulations and primary drinking water standards during the month of June 2018.

Staff hosted the State Water Resources Control Board's Division of Drinking Water on July 19 for the regularly scheduled quarterly update meeting. Presentations and discussion focused on regulatory updates, pathogen monitoring, updates on cyanobacterial bloom activity in reservoirs, sampling locations for compliance with the Total Coliform Rule, a description of the prescribed burn program for vegetation control at Lake Mathews and Lake Skinner, and an overall update on water quality within Metropolitan's system.

Objective: Actively Engage in Capital Project Planning and Execution.

Staff continued turbine repairs and refurbishment at Valley View Hydroelectric Plant. This month, staff disassembled and inspected needle valves as part of the refurbishment process. The project is expected to be completed in fall 2018. (*see photo right*)

Staff replaced damaged erosion control materials on the Colorado River Aqueduct at Hinds, Eagle Mountain, and Iron Mountain pump plants. The work was in support of an upcoming CIP project to upgrade the sand traps at these facilities. Staff removed the existing damaged materials and began installation of jute mat and fiber rolls on the exposed sand trap slopes.



Staff removing needle valve components at Valley View Hydroelectric Plan

WATER SYSTEM OPERATIONS

GM STRATEGIC PRIORITY: Enhance Infrastructure Safety, Security and Resiliency
Continued....

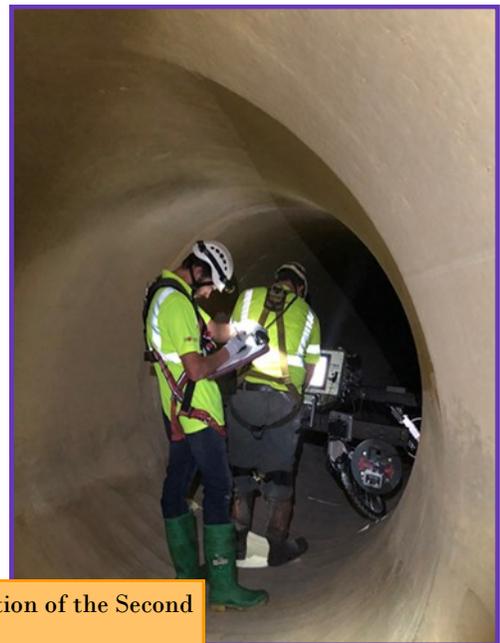
Objective: Optimize Maintenance.

Staff continued coating repair of various equipment, structures, and pipelines throughout Metropolitan’s system. In July, staff performed coating work at Lake Mathews, Corona Tower, Upper Feeder, Yorba Linda Hydroelectric Plant, San Diego Pipeline No. 1, West Orange County Feeder Pressure Control Structure (PCS), Carbon Creek PCS and Coyote Creek PCS, and coatings support for the shutdown of the Second Lower Feeder.

Welded steel liner segments were installed on 4.4 miles of the Second Lower Feeder as part of the prestressed concrete cylinder pipe rehabilitation project in the city of Long Beach. The relining of this 78-inch diameter pipe was performed over a seven-month period. The steel liner segments were inserted through eight construction entry points, which allowed insertion of the liner using a traveling cradle. During the Second Lower Feeder repairs, staff also used this opportunity to perform visual and electromagnetic inspections on a 0.75 mile section of the PCCP that was not part of this relining contract. *(see photos below)*



Contractors lowering steel liner into access site on the Second Lower Feeder



Electromagnetic inspection of the Second Lower Feeder

On July 18, there was a minor leak at Rio Hondo Pressure Control Structure located on the Middle Feeder in the city of South Gate. Staff performed the isolation and dewatering of a portion of the Middle Feeder. Staff then welded several patch plates internally to the 16-inch discharge line to seal the leak. The Middle Feeder was filled and returned to service on July 21. *(see photo right)*

A patch plate welded to seal a leak on the 16-inch line at Rio Hondo PCS



WATER SYSTEM OPERATIONS

GM STRATEGIC PRIORITY: Enhance Infrastructure Safety, Security and Resiliency
Continued....

Objective: Optimize Maintenance.

The La Verne Shops refurbished two 30-inch diameter siphon breaker assemblies for the California Department of Water Resources Dos Amigos Pumping Plant Unit No. 3. Siphon breakers are critical devices used to prevent reverse flow during pump startup and shutdown. This shop work included repairing eroded metal, machining operations to refurbish the stems and bushings, and replacement of the seals, bearings, pneumatic actuators, and packing. The Dos Amigos Pumping Plant is located downstream of San Luis Reservoir and is one of the key facilities used by DWR to convey water on the State Water Project. (see photos below)



Siphon breaker components for DWR's Dos Amigos Pumping Plant Unit No. 3 BEFORE refurbishment



Siphon breaker components for DWR's Dos Amigos Pumping Plant Unit No. 3 AFTER refurbishment

Staff performed scheduled maintenance at Yorba Linda Hydroelectric Plant. Work included inspection, cleaning, and servicing of all switchyard and generator equipment; and inspection of the turbine runner and wicket gates. (see photo right)

Staff installing new O-ring to turbine access door at Yorba Linda Hydroelectric Plant



WATER SYSTEM OPERATIONS

GM STRATEGIC PRIORITY: Enhance Infrastructure Safety, Security and Resiliency Continued....

Objective: Optimize Maintenance.

Staff repaired ten pipe joints on the 72-inch San Diego Pipeline No. 1 that were leaking, possibly due to degradation of the joint or movement as a result of nearby subsidence or past seismic activity. The work involved removing the existing joint sealant, cleaning and patching the concrete surface, and installing new internal joint seals. The work was more involved than originally anticipated because the condition of the concrete surface required more extensive patching. *(see photo right)*



Concrete patching prior to seal repair on San Diego Pipeline No. 1



Staff began repairs of 98 bollard lighting fixtures along Searl Parkway at the entrance to Diamond Valley Lake's East Dam recreation area. The scope of work included replacement of all fixture ballasts and starters as well as repairing underground conduit damaged by rodent intrusion. *(see photo left)*

Repaired lighting bollards at entrance to Diamond Valley Lake East Dam recreation area

Objective: Manage the Power System.

On July 19, staff met with the Western Area Power Administration (WAPA) to review and discuss current and next year's proposed charges for the interconnection to WAPA's Mead Substation (Mead) located near Hoover Dam. Metropolitan pays the operation and maintenance and replacement costs associated with WAPA's equipment at Mead that is dedicated to Metropolitan's interconnection and a prorated share of common facilities. These meetings, established under the new agreement, are important to review and manage costs related to CRA power operations.

Staff assisted Arizona Electric Power Cooperative/ACES in providing the September 2018 Resources Adequacy plan to California Independent System Operator. Metropolitan has adequate resource capacity for ensuring power availability for its CRA pumping operation and doesn't need to acquire any additional resource capacity for its CRA pumping operation in September. CAISO tariff requires all Load Serving Entities, such as Metropolitan for its CRA operations, to demonstrate adequate resource capacity to serve their load.

WATER SYSTEM OPERATIONS

GM STRATEGIC PRIORITY: Enhance Infrastructure Safety, Security and Resiliency Continued....

Objective: Improve Security and Emergency Response.

The California Utilities Emergency Association (CUEA) held its annual conference on June 28 at Southern California Edison’s Irwindale facility. Staff participated in this conference, which included numerous speakers covering topics ranging from active-shooter incident response to cybersecurity preparedness.

Metropolitan hosted a special meeting of the CUEA Water/Wastewater Committee and the Energy

Committee on June 26 at the Emergency Operations Center at Eagle Rock. This special meeting covered the interdependency of water and power agencies and the importance of pre-planning together for emergencies.

Staff evaluated and recommended additional physical security control measures at Iron Mountain pumping plant to strengthen the physical security control of cyber assets at Iron Mountain.

Objective: Optimize Water Treatment and Distribution.

Staff demolished, removed, and properly disposed of the abandoned sludge lines from the sludge thickeners in the existing drying beds at the Diemer plant. *(see photos below)*



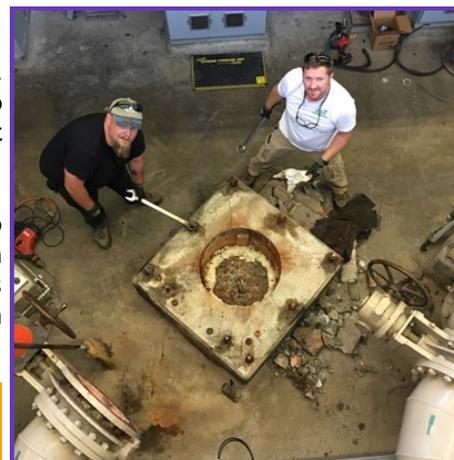
Demolition and removal of concrete supports for sludge lines at the Diemer plant

Replaced the internal mechanical seals on the washwater pumps at the Skinner plant due to corrosion issues and deteriorating parts. The new seals will increase the reliability of the pumps and reduce future costs. Once all the seals have been replaced, maintenance or repairs of the seal can be done without having to remove the motor.

Performed electrical maintenance and upgrades to the Ozone Generator Power Supply Units at the Skinner plant to comply with Metropolitan’s high voltage switching and safety protocols.

Replaced filter media on several filters on the east side of the Diemer plant. Over time, the media must be replenished to ensure the filter continues to process water that meets all water quality objectives. On average, media must be replenished every five to eight years.

Installed three new large vertical turbine pumps in Filter Building #2 Pump Gallery at the Weymouth plant. This \$980,000 Capital Investment Program project will provide the plant with more robust pumps made from stainless steel for extended service life and improved pump efficiency, along with upgraded modern electrical controls and instrumentation. *(see photo right)*



Mechanical apprentices preparing a washwater pump pedestal at the Weymouth plant

WATER SYSTEM OPERATIONS

GM STRATEGIC PRIORITY: Enhance Infrastructure Safety, Security and Resiliency Continued....

Objective: Prepare for Future Legislation and Regulation.

On July 13, the State Water Resources Control Board's Division of Drinking Water (DDW) issued Notification Levels for perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS) at 14 parts per trillion (ppt) and 13 ppt, respectively. Notification levels are nonregulatory, health-based advisory levels established for contaminants in drinking water for which maximum contaminant levels have not been established. To date, PFOA/PFOS have not been detected in Metropolitan's treated water, as PFOA/PFOS are

primarily found in groundwater. Staff will continue to monitor PFOA/PFOS levels in Metropolitan's source and finished waters.

Staff worked with the American Water Works Association to provide comments in support of U.S. Environmental Protection Agency's proposal to reconsider the 2017 Risk Management Program (RMP) rule. Metropolitan's chlorine handling and storage facilities are subject to the RMP Rule.

GM STRATEGIC PRIORITY: Prepare for More Extreme Hydrology

Staff will work closely with the Board to assess Metropolitan's storage capabilities, current strategies and review future needs to identify whether new strategies and/or new investments are needed

Objective: Manage Water Reserves.

State Water Project imports into the service area in July accounted for about 47 percent of Metropolitan's deliveries. Storage at Diamond Valley Lake increased 500 acre-feet to 715,400 acre-feet or 88 percent full.

GM STRATEGIC PRIORITY: Maximize Local Resources

Staff will begin work with the Board and member agencies on a review of the institutional issues associated with the Regional Recycled Water Program and its relationship to Metropolitan's ongoing Local Resources Program.

Objective: Support the Regional Recycled Water Program.

Metropolitan coordinated with the National Water Research Institute (NWRI) and partnering agency, the Los Angeles County Sanitation Districts (LACSD), this month on the preparation for a workshop with the Independent Scientific Advisory Panel (ISAP) currently established for the demonstration project at the Regional Recycled Water Advanced Purification Center in Carson. The ISAP is scheduled to meet in early August to review and provide input on a draft testing and monitoring plan for the demonstration project. The draft testing and monitoring plan will be presented to state regulators and submitted for review, following input by the Independent Scientific Advisory Panel. With construction progress at 55 percent, the operation of the demonstration project of the Regional Recycled Water Advanced Purification Center in Carson is expected to begin in late 2018, with testing spanning at least one year.

GM STRATEGIC PRIORITY: Promote Environmental Stewardship and Sustainability

Metropolitan will continue to lead with programs that promote actions that support sustainable practices, reduce greenhouse gas emissions and protect natural habitat and water quality.

Objective: Manage Power Resources and Energy Use in a Sustainable Manner.

Metropolitan's hydroelectric plants generated an average of 32 megawatts per hour for 23,808 megawatt-hours for July.

WATER SYSTEM OPERATIONS

GM STRATEGIC PRIORITY: Promote Environmental Stewardship and Sustainability continued...

Objective: Protect Source Water Quality.

On June 25, Metropolitan hosted a stakeholder meeting for the Clean Colorado River Sustainability Coalition at Gene pumping plant and provided a tour of Intake pumping plant. The Coalition and participants discussed development of a lower Colorado River watershed management plan to be completed by June 2019.

Following two applications of copper sulfate in June, the California Department of Water Resources treated Silverwood Lake again on July 13 to control a persistent cyanobacterial bloom that produced the taste and odor compound geosmin. Follow-up samples in the week after treatment indicated that it was successful, but the lake and geosmin levels will be monitored closely.

Diamond Valley Lake remained closed to recreation throughout much of July because cyanotoxins were detected above the state's voluntary guidance concentration for posting a danger notification (20 µg/L). The same guidance values were used to make the decision to reopen the lake on July 27. Cyanotoxins are not regulated in drinking water or recreational water in California but Metropolitan took a proactive approach to ensure that operations continue while being fully protective of public health.

GM STRATEGIC PRIORITY: Foster Leadership and Strengthen Workforce Capabilities

More than half of Metropolitan's workforce has reached retirement age, including many members of Metropolitan's executive management team. This is a challenge to Metropolitan's capacity to adequately train and prepare its workforce but is also an opportunity to build a workforce geared for the challenges of the future.

Objective: Manage Vacancies.

WSO filled nine vacant positions in June 2018.

Objective: Prepare Employees for New Opportunities.

The Apprenticeship Program is actively recruiting pre-apprentices to establish a desert hiring eligibility list. Metropolitan began accepting internal and external applications for desert positions on July 9 and July 23, respectively. Applicant testing and interviews are scheduled for fall 2018, with hiring anticipated in early 2019. The Class of 2021 attended class and conducted practical exercises for Understanding Basic Mechanics. The practical exercises demonstrated the mechanical advantage of using levers, pulleys, and inclines. (see photo right)

The ninth session of the WSO Management Academy was held at Orange County Water District in Fountain Valley. Curriculum focused on stress management and preparation for participants' final presentations next month. The session included a tour of OCWD's groundwater replenishment facility and concluded with an overview of Metropolitan's Water Operations and Planning section. The WSO Academy consists of ten, one-day sessions scheduled through August 2018.

Class of 2021 Mechanical Apprentice demonstrates the advantage of using pulleys for lifting



WATER SYSTEM OPERATIONS

GM STRATEGIC PRIORITY: Foster Leadership and Strengthen Workforce Capabilities continued...

Objective: Enhance Support Infrastructure at the Desert Facilities.

Support of the Desert Housing Renovation Program continues. This month’s activities included the first moves of desert region employees into two of the newly constructed manufactured houses. As walkways, driveways, and entry steps are completed by staff, employees will continue to be relocated into the remaining eight new houses on a temporary basis while renovation of existing houses is performed by contractors. Three house renovations are complete and five more are in progress. *(see photo right)*



Kitchen in House 47 at Gene Camp after renovation work was completed.

GM STRATEGIC PRIORITY: Maintain Sound Business Practices and Fiscal Integrity
 Metropolitan will continue its longstanding practice of operating in a productive, cost-effective, transparent and efficient manner to ensure sound financial stability.

Objective: Ensure Accurate Billing Infrastructure.

Staff continued working on multiple service connection projects this month, including sending five service connection agreements for agency review, coordinating the replacement of five existing meters that were no longer functioning, and processing new agency requests for modifications to four existing service connections.

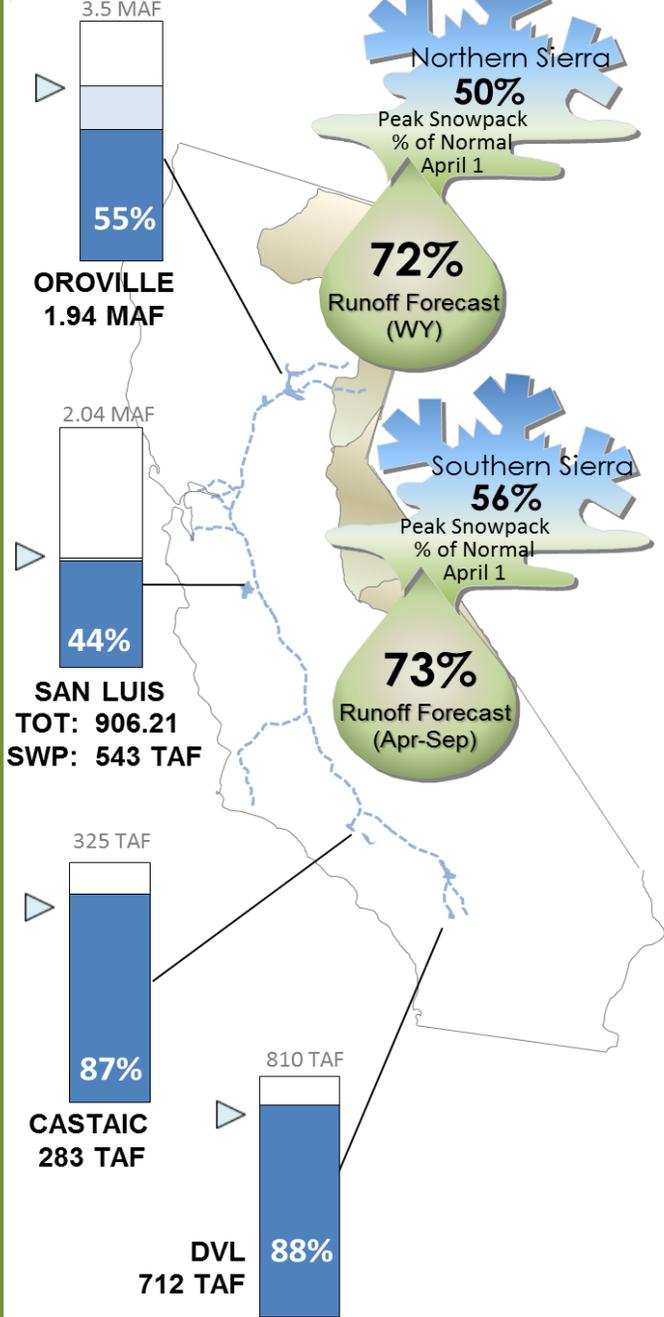
WATER SUPPLY CONDITIONS AS OF JULY 31, 2018

2018 SWP Allocation

669,025 AF

35% of Table A

(Does not include CVWD & DWA Table A)

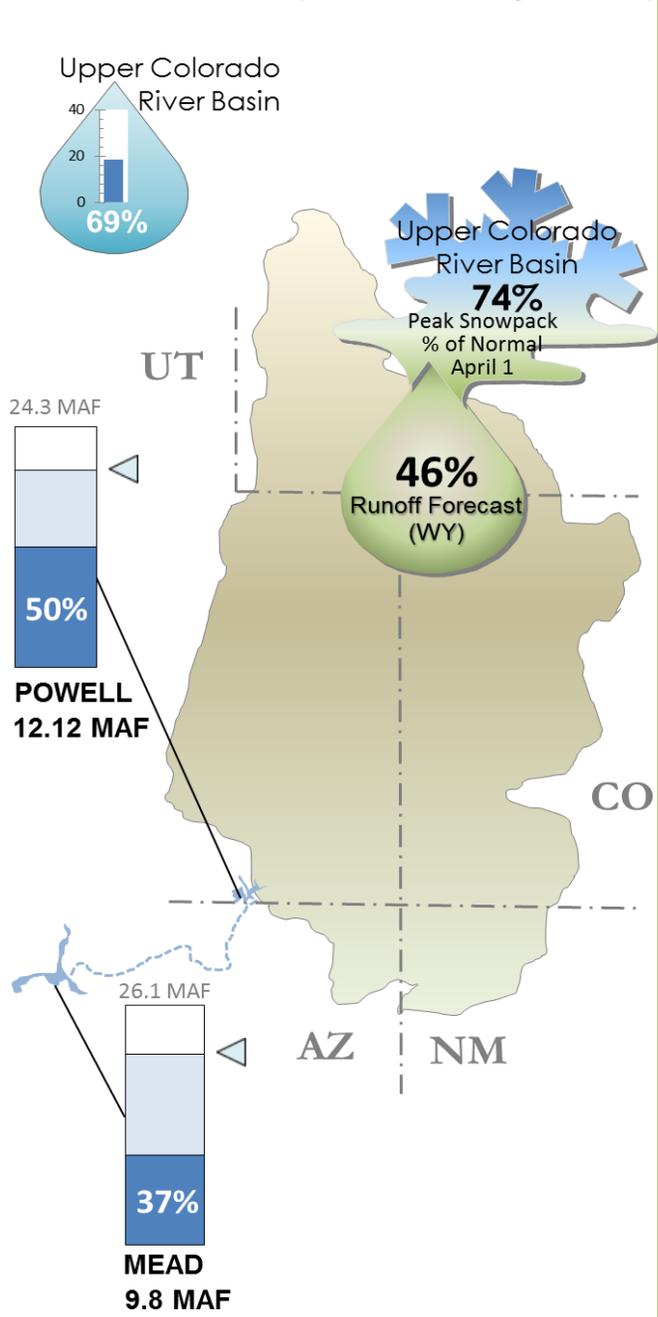


2018 Colorado River

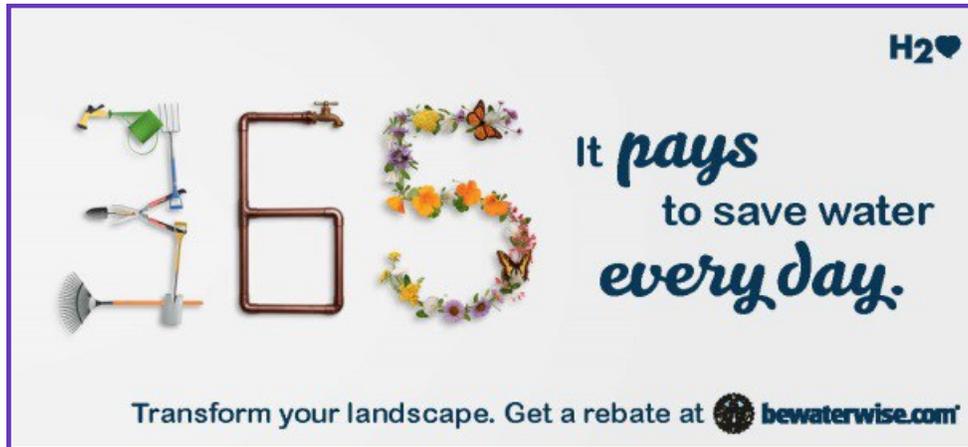
837,627 AF

67% of full CRA

(Does not include storage withdrawals)



- Regional Snowpack
- Precip WY to Date (in)
- Capacity
- Average EOM Storage
- Current Storage (% Capacity)
- Peak Snowpack % of Normal April 1
- Runoff Forecast WY



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.

PPT=One part per trillion (1 ppt) is a proportion equivalent to one-twentieth of a drop of water diluted into a two-meter-deep Olympic-size swimming pool.

Storage	As of 7/31/18	% of Capacity
DVL	711,870 AF	88
Lake Mathews	126,097 AF	69
Lake Skinner	35,806 AF	81

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.

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