



The Metropolitan Water District of Southern California
General Manager’s Monthly Activity Report for October 2019
 This report identifies the actions and activities taking place during the month that support the objectives of the General Manager’s Fiscal Year 2019/20 Strategic Priorities and the Core Business of the GM’s work groups.

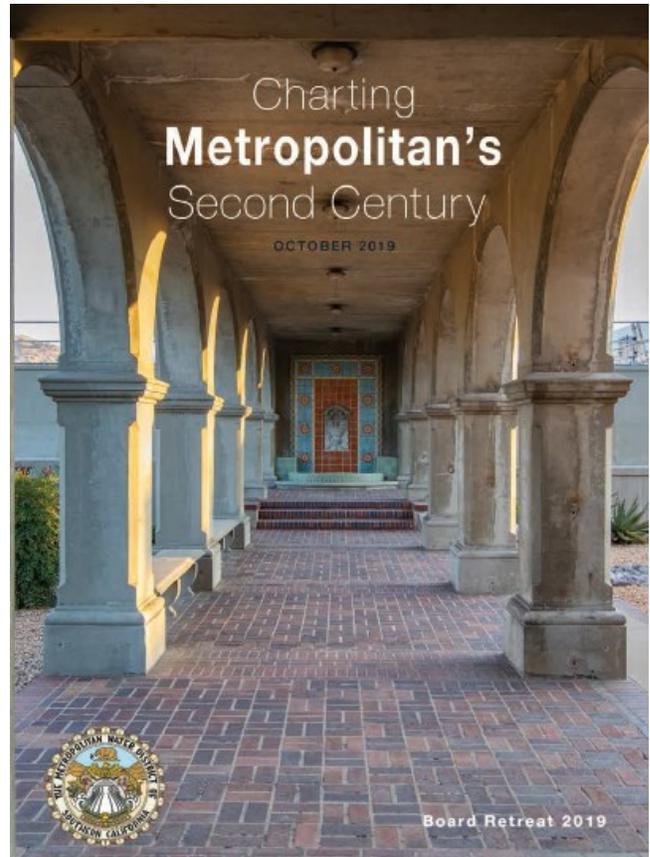
OCTOBER 31, 2019

Building on a Legacy to Plan our Water Future

Metropolitan’s Board of Directors met on October 21-22. This two-day meeting was held to outline steps for important decisions facing Metropolitan in the months and years ahead. Staff provided information through PowerPoint presentations and a white paper.

This white paper is intended to promote thinking about the shared future via three key Metropolitan objectives – the promotion of regional benefits, forward-looking regional planning to meet a shifting demand pattern and a changing climate, and ensuring sound financial practices and rates that are sustainable even as conditions change. This paper provides a brief overview of material in these areas and poses questions for the Board to consider and discuss.

The White Paper can be found on Metropolitan’s website: <http://www.mwdh2o.com/WhoWeAre/Board/Board-Meeting/Board%20Archives/2019/10-Oct/Reports/10212019%20Board%20Retreat%20White%20Paper.pdf>



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ADMINISTRATIVE SERVICES

CORE BUSINESS: Business Processes

Use technology and best practices to implement innovative solutions in business processes to improve the customer's and end-user's experience.

The Warehouse Team partnered with Weymouth plant staff to host a Warehouse Showcase and Tool Show. The primary purpose of the event was to connect Metropolitan end-users with Metropolitan's warehouse tools and suppliers. Suppliers also provided test demos of industry tools and equipment with a high emphasis on new safety features. *(see photo below)*

Objective: Develop, promote and support sustainable business practices.

Recently, Administrative Services promoted the Rideshare Program by participating in The Warehouse Showcase and Tool show held at the F. E. Weymouth Water Treatment Plant. Additionally, the team attended networking events including the Fall Marketing Symposium held at the Los Angeles County Metropolitan Transit Authority and participated in the SoCal Association of Commuter Transportation networking fair. These events give the Rideshare team opportunities to capture new ideas for Metropolitan's program and expand ridership, which has seen a 3.9 percent increase in participation from 2017. *(see chart and photo below)*

Rideshare Participation			
	2017	2018	2019
Total number of Participation	681	699	785
Total percentage of Participation	37.6%	38.5%	41.5%



Warehouse Team



BAY-DELTA INITIATIVES

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. The emphasis for the State Water Project will be on working with the Newsom Administration to make the necessary revisions to the process to accommodate a single-tunnel approach with minimal loss of time. On the Colorado River, the emphasis over the next year will be on implementing the completed Drought Contingency Plan providing stability on the Colorado River while protecting Metropolitan's supplies and access to storage in Lake Mead.

Objective: Collaborate with the state and other state and federal water agencies in pursuing a new environmental review and planning process for the new Delta Conveyance Project.

Delta Conveyance

The California Department of Water Resources is continuing to work on the environmental planning and preliminary engineering design preparatory work for Delta Conveyance. DWR anticipates that the formal environmental review process will begin with the Notice of Preparation under the California Environmental Quality Act near the end of this year. DWR issued Requests for Qualifications for consultant assistance with various aspects of the planned environmental review for Delta Conveyance. That selection process is ongoing. DWR also continued the public process of negotiating proposed amendments to the State Water Project water supply contracts for cost allocation of a potential Delta Conveyance facility.

Joint Powers Authorities

The Delta Conveyance Design and Construction Authority (DCA) held a meeting on October 17. At the meeting, the DCA Board took action to appoint and formalize the DCA Delta Stakeholder Engagement Committee. The DCA Board made clarifying revisions to the original resolution establishing the Delta Stakeholder Engagement Committee, which expand the committee to include one additional public member and allow the appointment of alternate public members. The DCA Board appointed 16 individuals as public members of the Committee representing recreation, sport fishing, agriculture, Delta counties, public safety, local water district, local business, environmental justice, non-governmental organization environmental groups, and tribal governments. The DCA Board also appointed two individuals as ex-officio members of the Committee representing various Delta Reclamation Districts and East Bay Regional Park District. The initial meeting of the Committee is expected in November 2019. The DCA Board also authorized awarding contracts for communications services to support stakeholder engagement and other meetings.

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

On October 15, staff attended the breach ceremony for the Tule Red Tidal Restoration project located in Solano County's Grizzly Bay region. The Tule Red project is a joint effort by the State and Federal Contractors Water Agency (SFCWA) and DWR to open more than 400 acres of wetlands to daily tides in the southern Suisun Marsh to benefit native fish species. The project is also part of California EcoRestore, which is an initiative to help coordinate and advance critical habitat restoration in the Bay-Delta. This restoration project involves breaching a natural berm to allow for full daily tidal exchange through the interior of the project site and creation of a network of channels to convey water across the marsh plain. The State Water Contractors (SWC) provided \$7.7 million in funding for the project through SFCWA. Once the project is completed, the site will be turned over to the California Department of Fish and Wildlife, who will take responsibility for monitoring and managing the site with SWP funding. The SWC Science Program is also funding a study to monitor and evaluate the effectiveness of the restoration.

BAY-DELTA INITIATIVES

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. Science Development

In October, staff participated in the first-ever joint national conference of the Wildlife Society and the American Fisheries Society. The event included many fish and wildlife professionals and provided an important opportunity for science-sharing and potential collaboration. Staff provided the following presentations at the conference on Bay-Delta related scientific studies:

- “Go West (and South) Young Smelt: Mapping the Habitats Associated with Juvenile Longfin Smelt and Testing Our Predictions,” presented by Corey Phillis
- “Off Channel Food Production as a Tool to Support Chinook Salmon Rearing: Simulation Based on a Long-Term Data Set,” presented by Alison Collins

The conference also included many presentations on scientific studies supported by Metropolitan and the SWC, including studies addressing salmon predation, the effects of predator density and habitat on salmon survival, salmon use of different habitats, application of aquatic environmental DNA monitoring in the Delta, and Delta smelt genetics studies.

The SWC recently partnered with the American Fisheries Society to produce a video that explores the importance of the science, practices, and policies strengthening America’s fisheries. The video demonstrates how science and collaboration can be used to improve policy decision-making at the state level and highlights the SWC’s work with state agencies, academic institutions and water scientists to determine the factors affecting the abundance of threatened Longfin smelt in the Sacramento Bay-Delta. The video was debuted at the conference. <https://www.swc.org/swc-video-longfin-smelt-research> (see photos below)

Staff continued participating in the Collaborative Science and Adaptive Management Program (CSAMP), including participation on the Collaborative Adaptive Management Team (CAMT). In October, the CSAMP Policy Group took steps to move forward with the Delta Smelt Structured Decision Making (SDM) project by assembling the multi-agency technical work team and developing a goal statement to provide direction on draft decision objectives and performance measures. The SDM project will be a major effort for the CSAMP process over the next two years. CAMT continued their review of the Delta smelt entrainment studies results and discussed the management implications of the study results and potential next steps. CAMT also received an update on the Salmon Rearing Habitat Study. The purpose of the study is to evaluate and map habitat characteristics in the tidal portion of the Delta to identify potential rearing habitat for juvenile salmon.



Clips from video—Longfin smelt research



CHIEF FINANCIAL OFFICER

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 52 incident reports communicating instances of Metropolitan property damage, liability, workplace injuries, regulatory visits, and spills.

Risk Management completed 48 risk assessments on contracts, including professional service agreements, construction contracts, entry permits, special events, and film permits. .

CORE PRIORITY: Business Continuity

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

Conducted the District-wide annual ShakeOut earthquake drill on October 17. Key activities included an earthquake preparedness presentation by the American Red Cross, employee participation in practicing drop, cover and hold, MetAlert emergency notification system messaging, and a memo distribution to all employees.

CORE BUSINESS: Financial Management

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

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

- The annual financial audit performed by KPMG was completed on October 14, 2019. The results of the audit will be reported to the Audit and Ethics Committee on November 4, 2019. The audit included a test of internal controls over financial reporting. Management did not receive any communications from the auditors regarding issues with their test of internal controls.
- Water transactions and revenues for the month of September 2019 were 135.4 TAF and \$115.7 million, respectively. Cumulative water transactions through September 2019 were 400.1 TAF and \$343.9 million, respectively, which were 163.4 TAF or 29% lower than budget.
- In September 2019, Accounts Payable processed approximately 3,700 vendor invoices for payment and took advantage of about \$21,400 in discounts.

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

- As of September 30, 2019, the balance in Metropolitan's investment portfolio was \$879.8 million; for the month of September 2019, Metropolitan's portfolio managers executed 41 trades.
- During the month of September 2019, Treasury staff processed 1,508 disbursements by check, 14 disbursements by Automated Clearing House (ACH), and 68 disbursements by wire transfer. Treasury staff also processed 103 receipts by check, 20 receipts by ACH, and 46 receipts by incoming wires and bank transfers.

ENGINEERING SERVICES

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:

Red Mountain Hydroelectric Plant—This project refurbishes and/or replaces the turbine's mechanical components. Construction is 40 percent complete and is scheduled to be complete by January 2020. *(see photo below)*

Garvey Reservoir Drainage and Erosion Improvements—Areas 2, 3, and 4 - This project installs a permanent drainage system and erosion control features, including installation of drainage piping; concrete ditches; stem wall; flow detention and dissipation structures; grading; surface improvements; fence removal and installation; and hydroseeding. Construction is 99 percent complete and is scheduled to be complete by November 2019.

Orange County Feeder Lining Repairs—This project replaces the deteriorated internal lining along an 11-mile portion of the Orange County Feeder within the cities of Santa Ana, Costa Mesa, and Newport Beach. Rehabilitation is proceeding along four reaches. Construction of Reach 1 is complete. Construction of Reach 2 is 99 percent complete and is scheduled to be complete by November 2019. Final design for the remaining two reaches is 90 percent complete and is scheduled to be complete by February 2019. *(see photo below)*

Casa Loma Siphon Upgrades—This project replaces Casa Loma Siphon Barrel No. 1 at a fault crossing utilizing Earthquake Resistant Ductile Iron Pipe. Design of the ductile iron pipe and steel pipe is complete and procurement of the pipe is underway. Final design of the construction package to install the pipe is 90 percent complete and is scheduled to be complete by January 2020.

West Valley Feeder De Soto Valve Replacement—This project replaces the existing 42-inch butterfly valve with a new 42-inch high performance butterfly valve and a 42-inch multiple orifice valve. Both of these valves are currently being fabricated. Final design is complete and a Board action to award a construction contract is planned for December 2019.

Yorba Linda Hydroelectric Power Plant Completion Project—This project fabricates and installs an enclosure for rain protection for the plant generator. Metropolitan's Board awarded a construction contract for the enclosure in July 2019 and the contractor is in the submittal approval process. This project also upgrades various facility subsystems and procures spare parts for the power plant. Final design on these subsystems is 60 percent complete and is scheduled to be complete by December 2019.

Red Mountain Hydroelectric Plant – Motor being lifted from generator housing.



Orange County Feeder Lining Repairs - Contractor completed building the manhole.



ENGINEERING SERVICES

GM STRATEGIC PRIORITY: Enhance Infrastructure Safety, Security and Resiliency 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. 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. A total of 6.4 miles of PCCP on the Second Lower Feeder have been relined; this includes 2 miles of previous urgent repairs and 4.4 miles completed under Reach 1. The scope of the second construction contract for Reach 4 includes lining approximately 2 miles of existing PCCP segments with a steel liner. Construction for Reach 4 is 97 percent complete and is scheduled to be complete by November 2019. The scope of the third construction contract for Reach 2 includes lining approximately 4.5 miles of existing PCCP segments with a steel liner. Construction for Reach 2 is 5 percent complete and is scheduled to be complete by November 2020. Final design of Reach 3 is 77 percent complete and is scheduled to be complete by March 2019.
- **Second Lower Feeder Pipe Fabrication**—Fabrication of steel liner pipe for Reaches 2 and 4 is underway and will provide approximately 21,100 feet of 75-inch-diameter welded steel liner pipe. Fabrication is 99 percent complete and the delivery of pipe for Reach 2 began in October 2019.
- **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. All 216 valves were received and inspected and are in protective storage at the Weymouth plant in La Verne.
- **Second Lower Feeder Isolation Valve Procurement**—This contract provides 13 conical plug isolation valves for the Second Lower Feeder rehabilitation. These valves range in diameter from 48 to 54 inches and provide primary isolation for maintenance activities, inspections, and repairs required to maintain reliable water deliveries with Metropolitan's distribution system. Fabrication of the first three 48-inch conical plug valves is 35 percent complete, and the valves are scheduled to be delivered by June 2020.

Colorado River Aqueduct (CRA) Reliability Program

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

- **CRA Gene Wash and Copper Basin Discharge Valve Rehabilitation**—This project replaces the existing deteriorated cone valves at Copper Basin and Gene Wash Reservoirs on the Colorado River Aqueduct. The project will be completed in two stages. Stage 1 will replace the valve at Gene Wash Reservoir, while Stage 2 will replace the valve at Copper Basin Reservoir. Final design for Stage 1 is complete and a Board action for award of a construction contract is scheduled for December 2019. Final design for Stage 2 is 30 percent complete and is scheduled to be complete by June 2020.
- **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 prevent fluctuations in power quality and to serve as a backup for communications, data, and control equipment in case of loss of power. Construction is 48 percent complete and is scheduled to be complete by December 2019.
- **CRA Cranes Rehabilitation**—This project replaces the overhead crane systems within each pump house and the portable pump-bay crane systems, including bridges, trolleys, hoists, drive trains, and system controls. Final design is 90 percent complete and is scheduled to be complete by December 2019.
- **CRA Motor Cable Replacement**—This project replaces the electrical cables that provide power to the main pump motors. Simultaneous work is currently underway at all five CRA pump plants. Work will be completed in two phases, Fall 2019, and Spring 2020. Construction is 24 percent complete and is scheduled to be complete by July 2020.
- **CRA Radial Gate Replacement**—This project replaces eight deteriorated radial gates along the aqueduct in two stages. Construction of Stage 1 to replace a radial gate at Eagle Mountain Pumping Plant is complete. In August 2019, Metropolitan's Board awarded a construction contract for the Stage 2 work, which includes replacement of seven radial gates at seven facilities along the CRA. Construction of Stage 2 is currently in the submittal phase and is scheduled to be complete by March of 2021.

ENGINEERING SERVICES

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

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 96 percent complete and is scheduled to be complete by November 2019.

Weymouth Domestic Water Upgrade—This project upgrades the aging domestic and firewater loop at the Weymouth plant. Construction is 60 percent complete and is scheduled to be complete by March 2020. *(see photo below)*

Weymouth Chlorination System Upgrades—This project expands an existing chlorine building to house additional chlorinate feed equipment and instrumentation at the Weymouth plant. Construction is 30 percent complete and is scheduled to be complete by December 2020.

Jensen Plant

Jensen Electrical Upgrades, Stage 2—This project upgrades the electrical system with dual power feed to key process equipment in three stages to achieve conformity with current codes and industry practices. Stage 1 work is complete. Stage 2 improvements will upgrade UPC-7, UPC-9, and their associated motor control centers to support critical process equipment. Construction is 6 percent complete and is scheduled to be completed by June 2022

Jensen Module 2 and 3 Flocculator Rehabilitation—This project rehabilitates the Modules 2 and 3 flocculators at the Joseph Jensen Water Treatment Plant. The Board awarded a construction contract in May 2019. Construction is five percent complete and is scheduled to be complete in February 2021.

Diemer Plant

West Basin and Filter Building Rehabilitation—This project performs rehabilitation of the west flocculation/sedimentation basins and filter building at the Diemer plant, including replacement of treatment basin equipment and filter valves, abatement of hazardous materials, and seismic strengthening of the filter building. Construction is 42 percent complete and is scheduled to be complete by December 2020. *(see photo below)*

Diemer Water Sampling System Improvements—The project upgrades the existing Diemer water sampling system. This system is comprised of 13 sample locations. At each location, the sample pump, piping, and field analyzers will be upgraded. Construction is 45 percent complete and is scheduled to be complete by January 2021.



Weymouth Domestic Water Upgrade – Concrete formwork for Surge Tank Foundation



Diemer Plant West Basin and Filter Building Rehabilitation – Installation of new access bridge at Basin 5

ENVIRONMENTAL PLANNING SECTION

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 Multiple Species Reserve

- Executed agreement amendment with Riverside County Habitat Conservation Agency for a four-year extension of Reserve Management services.

Southwestern Riverside Multi-Species Reserve

- Staff coordinated with Water System Operations, Security, and Real Property regarding a 16.5-acre fire that occurred within reserve boundaries between Diamond Valley Lake and Domenigoni Parkway.
- Reserve staff continue to restore a 3-acre section of Tualota Creek; over 100 plants have been installed.
- A local Girl Scout Troop created a small garden with over 25 plants at the Alamos Schoolhouse, a historic one-room schoolhouse within the reserve.
- Provided recommendations for cultural resource protections within the reserve.

Objective: Ensure compliance with Surface Mining and Reclamation Act (SMARA) regulations for Metropolitan-operated borrow pits in Riverside and San Bernardino counties.

- Prepared board letter and presentation, and received Board approval for General Manager authority to seek legislation to provide Metropolitan with lead agency status under SMARA.
- Presented SMARA legislative proposal at Member Agency Managers meeting.

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

- Provided CEQA review and determined that the following projects are exempt: Skinner Ozone Control System, Jensen Ozone Control System, Mills Emergency Generator, Wadsworth Pumping Plant Sleeve Valves, Lake Perris Bypass Pipeline Relining, and West Valley Feeder #1 De Soto Valve Structure Improvements.
- Provided Environmental Awareness Training for the PCCP Second Lower Feeder Reach 2 contractor.

Regulatory Permitting Support and Compliance

- Initiated pilot study to assess the feasibility of using drone-mounted LiDAR to monitor changes in streambed elevations, which may be used to comply with California Department of Fish and Wildlife Streambed Alteration Agreement conditions for the Orange County Right-of-Way and Infrastructure Protection Program.
- Submitted Regional Water Quality Control Board and CDFW notifications for maintenance activities at Cajalco Creek Dam and Detention Basin and Lake Mathew sedimentation basins.
- Received authorization from U.S. Army Corps of Engineers to proceed with the Casa Loma Siphon No. 1 and San Jacinto Pipeline Hazard Mitigation Project.

ENVIRONMENTAL PLANNING SECTION

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 and provided comments to DWR on the Administrative Draft/Screencheck EIR for the Lake Perris Seepage Recovery Project.

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: Emphasize employee development, recruitment, knowledge capture, cross-training, management training and succession planning

- Staff is enrolled in a Sustainability certificate program at UCLA.
- Staff is enrolled in a Master's program in Environmental Studies at Cal State Fullerton.
- Staff participated in webinars on upcoming *Regulations for Discharge of Dredge and Fill Into Waters of the State; CEQA Best Practices- GHG Thresholds and Mitigation Credits; Climate Action in the Water Sector: Successes and Lessons Learned; and Navigating California's New Regulations for Wetlands and State Waters.*
- Staff attended trainings on *Effective Presentations, Personal Security Awareness, Dealing with Difficult People, Heat Stress, Fall Protection, Lock Out/Tag Out, Personal Security, and Advanced NEPA.*

CORE BUSINESS Business Processes

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: 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 Groups

CEQA Clearances

Provided environmental planning clearances for 14 WSO projects, 2 Real Property actions, and 13 board letters.

Engineering Services Support

- Attended design review workshops and provided input on environmental conditions and mitigation requirements for Weymouth Basins 5-8 Rehabilitation Project.
- Conducted a site visit with Engineering Services staff to Garvey Reservoir to evaluate drainages for planned Capital Investment Plan projects.
- Participated in Value Engineering Workshop for PCCP Second Lower Feeder Reach 3.
- Participated in excavation site reconnaissance and workshop for PCCP Sepulveda Feeder in support of the Preliminary Design Report.

External Project Review

Reviewed 19 CEQA notices for external projects and prepared comment letters for those that may impact Metropolitan facilities and/or operations.

ENVIRONMENTAL PLANNING SECTION

CORE BUSINESS Business Processes continued...

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 Groups

Water System Operations Support

- Reviewed upcoming shutdown schedule and began environmental coordination process to ensure regulatory compliance.
- Conducted site visit to the Santiago Lateral to determine whether wetlands were present in a project area.
- Monitored vegetation trimming on access road to Rialto Feeder structures to ensure no impacts to sensitive biological resources occurred. *(see photos below)*
- Provided environmental clearances for vegetation maintenance and grading activities along Lower Feeder patrol roads within Chino Hills State Park and for road maintenance, sediment excavation, and berm reestablishment along the San Diego Canal.

Construction Monitoring

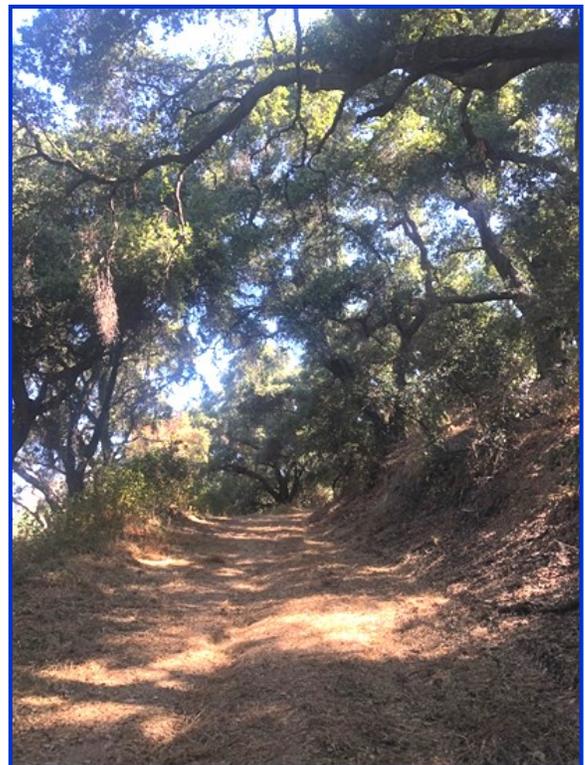
Began construction monitoring for PCCP Second Lower Feeder Reach 2.

Real Property Support

- Completed environmental review for two real property agreements and continued environmental review on nine additional agreements.
- Conducted CEQA training for Real Property staff.
- Reviewed final EIR and submitted comment letter on Western Municipal Water District's 52nd Fringe Area Annexation.



Staff monitored vegetation trimming along Rialto Feeder access road (before left and after right)



EXTERNAL AFFAIRS

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.

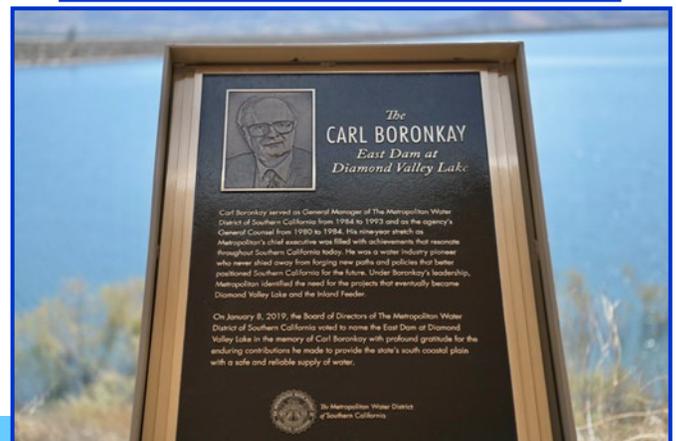
Objective: Recognizing there is a new normal that is directly impacting California water conditions, driven in part by more volatile supply conditions due to climate change, inform key stakeholders, news media, businesses and the public on the need for sustained conservation actions, support for new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

- Metropolitan held a grand opening event to mark the start of operations at the Regional Recycled Water Advanced Purification Center. Chairwoman Gray and General Manager Kightlinger spoke on the importance of the project for water supply reliability. Directors Atwater, Dake, Hall, Hogan, Kurtz, Morris, Peterson, Smith, and Williams attended the ceremony, which also featured remarks from Representative Napolitano (D-Norwalk); State Water Resources Control Board Chair Esquivel; Los Angeles Regional Water Quality Control Board Chair Muñoz; Carson Mayor Robles; and Sanitation Districts of Los Angeles County's Chief Engineer and General Manager Ferrante. More than 250 civic leaders, environmental and social justice organizations, and water professionals attended and toured the new facility. (October 10) *(see photo below)*
- Chairwoman Gray, Directors Morris and Peterson, and General Manager Kightlinger, joined with dozens of local officials and water industry leaders to officially dedicate the Carl Boronkay East Dam at Diamond Valley Lake. Members of the Boronkay family were in attendance to participate in the lakeside ceremony and unveil the naming plaque. (October 16) *(see photo below)*
- Chairwoman Gray attended and Metropolitan sponsored The Los Angeles Sentinel's annual Taste of Soul event. Representatives from the Black Employees Association volunteered at Metropolitan's interactive H2Love conservation exhibit pavilion that offered thousands of attendees water education trivia games, conservation rebates and resources, and career information. (October 19)
- Metropolitan sponsored and exhibited at American Water Works Association California-Nevada Section Annual Fall Conference (AFC19). The event was attended by more than 800 participants and included breakout sessions and workshops on water quality, trends and new technologies to support water system infrastructure and operations, and best practices in customer communications. (October 21)
- Chairwoman Gray spoke to the U.S. Conference of Mayors Water Council about Metropolitan's long-range planning activities to ensure water supply reliability and address climate change impacts. (October 24-25)

Congresswoman Grace Napolitano, Metropolitan Chairwoman Gray, Metropolitan General Manager Kightlinger, and Chair of State Water Board E. Joaquin Esquivel at the Regional Recycling Grand Opening.



The new Carl Boronkay East Dam dedication plaque at Diamond Valley Lake.



EXTERNAL AFFAIRS

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.

State

Governor Newsom signed the following bills of interest to Metropolitan:

- SB 785, a Senate Natural Resources and Water Committee sponsored bill that extends the sunset date for the requirement and enforcement of quagga mussel control plans.
- AB 1588 (Gloria, D-San Diego) requires the State Water Board to investigate opportunities for qualified military veterans to become certified water and wastewater operators.
- SB 19 (Dodd, D-Napa), advances the efforts of the Open and Transparent Water Data Act and requires the state to implement a network of stream gages to improve water management.
- AB 658 (Arambula, D-Fresno) allows temporary, conditional permits so local agencies can capture surplus water and recharge groundwater basins during peak flood flows.
- AJR 8 (Quirk, D-Hayward) asks Congress to include California in the Nutria Eradication and Control Act and appropriate \$4 million to help the state's efforts to eradicate nutria and protect the Delta.

Governor Newsom vetoed SB 1 (Atkins, D-San Diego) saying it would block efforts to find collaborative solutions to water supply and ecosystem challenges, including Voluntary Agreements to manage water and environment in the Delta. Metropolitan sent a letter thanking the Governor for his decision.

General Manager Kightlinger was invited by Senator Rubio to present at the L.A. Legislative Delegation Policy Retreat on key water issues impacting the region. (October 18)

Local

- Director Hall and General Manager Kightlinger joined Assemblymember Reyes (D-Grand Terrace) and the district director for Senator Leyva (D-Chino) to present a community leaders water briefing, discussing important water issues with more than 100 community, business and government leaders. (October 2)
- Chairwoman Gray, General Manager Kightlinger, General Auditor Riss, Ethics Officer Salinas, Chief Operating Officer Upadhyay, Chief External Affairs Officer Zinke, Chief Financial Officer Kasaine, and staff attended the grand re-opening of West Basin's Edward C. Little Water Recycling Facility and Education Center. Representative Napolitano was the keynote speaker at the event. (October 3)
- Assistant General Manager Zinke and staff attended the Tree People annual event. Metropolitan was a sponsor of the event that supported the organization's work to raise public awareness of climate change impacts through environmental education, conservation and stewardship initiatives in Southern California. (October 5)
- General Manager Kightlinger was the guest speaker at the Annual Leadership dinner of the Building Industry Association of Southern California's Union Contractors Council. Mr. Kightlinger addressed the group of union contractors on developments on the Delta, the Integrated Water Resources Plan, and Metropolitan's partnership with the Sanitation District of Los Angeles County on the Regional Recycled Water Advanced Purification Center. (October 8)
- Metropolitan staff attended a Town Hall with Assemblymember Smith (D-Santa Clarita) in Simi Valley with more than 50 business leaders that included discussions on regional environmental issues. (October 10)

EXTERNAL AFFAIRS

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

Objective: LEGISLATIVE SERVICES continued...

- Metropolitan sponsored and staff attended the annual Riverside Legislative Summit. Keynote speaker Lenny Mendonca, director of Governor Newsom's Office of Business and Economic Development, provided an update of state economic initiatives to more than 200 local and regional leaders. (October 11)
- Director Cordero and Long Beach Water Department General Manager Garner joined Metropolitan staff to brief newly elected State Senator Gonzalez (D-Long Beach) on regional water issues, local projects, and conservation programs. (October 14)
- Metropolitan staff participated in a Los Angeles County Business Federation (BizFed) Leadership Roundtable with Assemblymember Kamlager-Dove (D-Los Angeles). (October 16)
- Executive Legislative Representative Viatella provided a Sacramento update to roughly 150 community and water agencies at the Association of Water Agencies of Ventura County. (October 17)
- General Manager Kightlinger participated in a Water and Housing Forum hosted by Building Industry Association of Southern California. Kightlinger provide an update on Delta conveyance, local water supply conditions, and the Integrated Water Resources Plan. (October 23)
- Metropolitan staff attended the Coalition of Labor, Agriculture and Business of Ventura County's annual meeting with more than 100 members in attendance. (October 23)
- Metropolitan sponsored and staff attended the Valley Industry and Commerce Association's Business Forecast Conference. Over 600 business leaders and local elected officials were present. (October 25)
- Metropolitan sponsored the Regional Chamber of Commerce San Gabriel Valley Legislative lunch featuring California State Treasurer Ma and Los Angeles County Supervisor Solis. Approximately 250 business, community and local government leaders heard Treasurer Ma discuss state revenue and expenditure projections; Supervisor Solis addressed county efforts to address public health and homelessness issues. (October 25)
- Metropolitan sponsored and staff attended the Ventura County Economic Development Association's annual Business Conference with more than 350 business and community leaders. (October 31)

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 Interviews

- Promoted and coordinated press coverage of the grand opening of the Regional Recycled Water Advanced Water Purification Center, including in-person event coverage by *Orange County Register* reporter Martin Wisckol, follow-up print and video coverage by *Nguoi Viet* (Vietnamese daily) reporter Thanh Long, and radio coverage by KNX-AM producer Keith Mizuguchi, including an interview with Chief Operation Officer Upadhyay.
- Arranged interviews on Senate Bill 1 with General Manager Kightlinger and *New York Times* reporter Jose Del Real and *Brentwood Press* reporter Tony Kukulich.
- Set up phone interview between *Wall Street Journal's* Jim Carlton and General Manager Kightlinger regarding land-buying activities in the *Imperial Valley* by Renewable Resources Group.
- Coordinated phone interview between *Politico* reporter Debra Kahn and General Manager Kightlinger regarding Fall X2 adaptive management actions in the Delta.
- Arranged phone interview between Water Education Foundation writer Gary Pitzer and Executive Legislative Representative Viatella regarding Senate Bill 19.
- Set up phone interview between General Manager Kightlinger and *Los Angeles Times* reporter Bettina Boxall on Delta conveyance, voluntary settlement agreements, and biological opinions.

EXTERNAL AFFAIRS

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

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.

Press Releases/Statements

- Two New Directors Join Metropolitan's Board Representing Los Angeles, Glendale
- Metropolitan and Sanitation Districts of Los Angeles County Launch New Water Recycling Demonstration Plant to Develop New Local Water Source
- New Pilot Program Helps Southern California Grow Native
- Metropolitan Water District Names Dam After Western Water Legend Carl Boronkay
- GM statement regarding release of federal BiOps

Social Media

- Posted and boosted a new water conservation graphic with a hockey theme to coincide with the beginning of the National Hockey League season. The ad received more than 110,000 impressions on Facebook. [\(see photo below\)](#)
- Posted six videos of employees to celebrate Water Professionals Appreciation Week. (October 5-13)
- Posted videos leading up to the grand opening of the Regional Recycled Water Advanced Purification Center on Metropolitan's social media platforms. Live-streamed the October 10 celebration on Facebook and in clips on InstagramTV, garnering 700 initial views.
- A series of three native plant-themed social media GIF posts launched in October to promote the fall planting season. The posts drive traffic to bewaterwise.com gardening resources and turf rebate information. [\(see photos below\)](#)



"Stay on the Power Play" graphic posted coordination with the start of the National Hockey League season.



Native plant themed social media GIF posts promoting the fall planting season.

EXTERNAL AFFAIRS

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

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.

Public Outreach for Metropolitan Projects

- Metropolitan staff presented information about Southern California's water system and current issues to California State Polytechnic University, Pomona engineering students. (October 4)
- Volunteer docents from the DVL Visitor Center participated in a tour of the Skinner plant to further their water education knowledge. (October 7)
- Metropolitan staff provided a tour of the Diemer plant to attendees of the International Seismic Conference. (October 11)
- Metropolitan staff provided an update on current water issues to the Chinese Institute of Engineers, Southern California Chapter. (October 12)
- Metropolitan staff presented on "Being a Good Neighbor Dictates the Communication and Outreach Strategies for a Successful Construction Project" at the AWWA California-Nevada Section fall conference. (October 24)
- Metropolitan sponsored and Directors Atwater, McKenney, and Ortega, along with staff attended the annual Southern California Water Coalition board meeting and dinner. (October 24)
- Metropolitan staff spoke on water quality issues at the Southern California Section of the American Chemical Society event honoring the 150th anniversary of the periodic table. (October 26)
- Metropolitan provided tours of the Regional Recycled Water Advanced Purification Center to the Central/West/Gateway agencies (October 3), member and retail agency water use efficiency coordinators (October 17), and the Pasadena League of Women Voters (October 25). Public tours were held on October 26-30.
- Metropolitan provided 13 inspection trips to the State Water Project, Colorado River, and local infrastructure for directors, Diamond Valley Lake Visitor Center docents, and other organizations. (various dates)

Construction Project Updates

- Notified residents near the Palos Verdes Reservoir about onsite tree maintenance. (September 4)
- Met with staff from the city of Carson and Los Angeles County to discuss Reach 2 of the Second Lower Feeder Prestressed Concrete Cylinder Pipe Relining Project and the Regional Recycled Water Program. (September 11 and 18)

Member Agency Support

Metropolitan met with the member agency managers to discuss water operations and the 2019/20 shutdown schedule, mid-cycle budget review, demand management cost allocation, a stormwater for recharge pilot program, and an update on Colorado River issues. (September 13)

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.

General Education

Education staff supported field trips, events and class presentations, including California Department of Education teacher workshops, tours of the Regional Recycled Water Project, the Solar Cup new teacher workshop, and interacted with more than 500 students, teachers and community members.

Diamond Valley Lake Education Program

Education staff hosted 620 visitors at the DVL Visitor Center and guided more than 320 visitors to the Clayton Record Viewpoint.

EXTERNAL AFFAIRS

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

Objective: EDUCATION AND COMMUNITY RELATIONS continued...

Community Partnering and Sponsorship Programs

Metropolitan sponsored the following events and staff participated in presentations and exhibits to promote water education, conservation and sustainability initiatives:

- Surfrider Foundation Event for Clean Water (October 5)
- Western Municipal Long Nights of Arts and Innovation (October 10)
- Riverside County Office of Education's STEMCon19 event (October 10)
- Downtown San Diego Partnership (October 10)
- South Bay Workforce Investment Board (October 10)
- Laguna Beach Water 2019 SmartScape Expo (October 12)
- City of Chino Annual Landscape & Water Conservation Festival (October 12)
- Women in Non-Traditional Employment Roles (WINTER) annual event (October 24)
- San Diego Coastkeeper Conservation Workshop (October 26)
- West Basin MWD Water Harvest Festival (October 26)

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

- Staff was invited by a LADWP technology team to the Los Angeles Cleantech Incubator to participate in a demonstration of new technologies to support water utilities. (October 1)
- Co-sponsored a Murrieta Innovation Center event to assist entrepreneurs with projects including technologies for water quality testing. The event was attended by 200 participants. (October 10)
- Hosted its quarterly Technology Approval Group forum to present five water-related technologies including pipe composites and lining systems, leak detection and asset management. The event was attended by over 50 members from 15 drinking water utilities from across the western United States. (October 16)
- General Manager Kightlinger spoke and Metropolitan staff participated in World Water-Tech North America, which featured presentations and exhibits about industry trends and new technologies for water and wastewater management. (October 29-30)

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

- Asian Business Association (ABA) awards event with 2,000 attendees representing businesses and public agencies. (October 3)
- City of Compton's Business Roundtable hosted by City Councilmember Emma Sharif with 100 business owners and representative in attendance. (October 24)
- National Association of Women Business Owners Los Angeles annual procurement event for 250 business owners. (October 24)
- Veterans in Business Network's national conference that included breakout sessions, networking and exhibitors for more than 350 disabled and veteran-owned businesses. (October 27-29)
- Caltrans' annual Procurement and Resource Fair with more than 700 business owners. (October 30)

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. While Metropolitan's workforce is becoming increasingly more diverse, Metropolitan will continue to foster an inclusive and innovative workplace, promoting a safe and discrimination-free work environment, and provide opportunities for all employees to use their diverse talents to support Metropolitan's mission.

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

- The WSO Management Academy completed its fourth cohort. Management was on hand to provide feedback on the graduates' final presentations. As of October, 105 WSO team members have now completed the program and the Water System Operations Group has seen a promotion rate of 27 percent of its Academy graduates.
- The ninth cohort of the Met Management University kicked off at Headquarters with 20 recently promoted managers. The first session focused on typical managerial challenges of building team engagement, time management, delegation, inclusion and diversity, and administrative responsibilities (e.g., WorkTech time reporting, Workers' Compensation).
- The Organizational Development and Training Unit assisted facilitation of the Water System Operations – Engineering Services Partnering Meeting with Senior Leadership. At the meeting chief areas of concern in partnering were identified and teams were assigned to work on improvement strategies.
- The first of a series of team development sessions for the Benefits Unit was held with a focus on communication and engagement. This was part of a three-month training initiative for the team that has been designed to enhance team cohesion, cross-training, and customer service skills.
- Training also partnered with Engineering Services Design Section to begin the rollout of their Certified Design Manager Leadership training. The expectation is that 80 participants will complete the program by April 2020.

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

Recruitment filled 20 positions for the month of October which included 6 job-bid promotions and 14 external hires. HR received 42 new staffing requisitions resulting in 146 positions currently in recruitment.

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

Metropolitan's Annual Employee Appreciation Day events, designed by employees within a set budget and held at various locales, began this month and will continue through November. These Employee Appreciation Day activities create opportunities to show appreciation to employees for their work and efforts in achieving Metropolitan's organizational goals.

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.

Three HR Strategic Partners assumed their new roles, as part of the Human Resources Group's recent reorganization. Each HR Strategic Partner has an Employee Relations Specialist reporting to him/her, and eventually each Partner will also have a second staff resource. The HR Strategic Partners are intended to serve as "single points of contact" for managers on all matters pertaining to Human Resources.

HUMAN RESOURCES

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

This month, 136 employees received training in classes on:

- Effective Presentations
 - Dealing with Difficult People
 - Drug & Alcohol Awareness
 - Preventing Workplace Harassment
 - Microsoft SharePoint
 - P-Card Usage
-
- Worked with Empower Retirement on National Retirement Security Week that ran from October 21-25; this included emails, webinars, and fliers. Each year, the U.S. Congress designates a week in October to highlight the importance of saving through employer-sponsored plans to help build the income needed to retire comfortably. National Retirement Security Week is the ideal time for participants to check if their investment strategy is headed in the right direction.
 - On-site Flu Shots were made available to employees at Headquarters, Weymouth, and desert locations to help prevent cases of the flu affecting Metropolitan employees. More than 140 employees participated in the in-house program.



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

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 of the Workers' Compensation/Medical Screening Unit are summarized as follows:

- Submitted 20 new claims to Metropolitan's Workers' Compensation Claim Administrator
- Closed 14 Workers' Compensation Claim Files
- Currently 3 employees remain off work due to industrial injury or illness
- Arranged 9 clinic evaluations (Department of Motor Vehicle exams and medical surveillance exams)
- Coordinated medical surveillance exams at four remote facilities (Hinds, Eagle Mountain, Iron Mountain, and Gene Camp). The exams included Respirator Exams, Department of Motor Vehicle Exams, Hearing Tests, and Flu Shots.
- Coordinated 1 random drug/alcohol test at Diemer
- Addressed 3 Accommodation issues

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 cybersecurity capabilities by deploying new and emerging technologies and implementing enhanced security countermeasures.

On-going efforts include operational initiatives and capital projects to upgrade and protect Metropolitan against evolving cyber threats.

- Maintained leadership role by participating in a cybersecurity discussion at the recent Municipal Information Systems Association of California (MISAC). MISAC promotes the understanding and strategic use of information technology within local government agencies through sharing of best practices.
 - IT Cybersecurity Unit Manager Jake Margolis participated as a panelist in discussions with municipal governments and technology innovators to share issues faced by cities and communities and efforts to address evolving cybersecurity threats.
- Under the Cybersecurity II Project to enhance Metropolitan's security posture, IT staff continued to evaluate new and emerging technologies as part of the Information Technology Cybersecurity Roadmap. The Cybersecurity team, as part of keeping the Board apprised, will be making a presentation during the Quarterly Cybersecurity update to the Organization, Personnel and Technology Committee in November.
- Observed every October, National Cybersecurity Awareness Month was created as a collaborative effort between government and industry to ensure every American has the resources they need to stay safer and more secure online. As part of National Cybersecurity Awareness Month, Metropolitan's Cybersecurity team is planning to conduct an interactive workshop that will incorporate topics such as current threats, securing remote access, protecting data, and Q&A with the Cybersecurity team.

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

Continued to collaborate with Engineering Services Group and Facilities on IT services in support of the Headquarters Improvement Program.

Headquarters Wi-Fi (Low-Rise) Project—This project scope is to design and install network equipment and Wi-Fi infrastructure within the five-floor wing portion of the Headquarters building to support staff relocation.

- During the last period, IT staff completed the installation of the remaining Wireless Access Points for the new wireless network infrastructure on the first and second floor of the Headquarters building.
 - Working in conjunction with Legal, IT Network Engineers are assisting in the creation of an Acceptable Use Policy Disclaimer, which will be provided to visitors at Metropolitan's Headquarters building to access the guest Wi-Fi network.
 - In addition to working with Legal, the IT Network Engineers are working with Metropolitan's Cybersecurity team to implement new authentication security protocols to allow guests to access the Wi-Fi network.
 - Staff continued to fine-tune the new, more robust wireless network and optimize Wi-Fi coverage, capacity, and performance.
- Next steps currently scheduled for the upcoming quarter include the IT Networking team's performing an inspection walk through of the floors in the low-rise building to inspect the telecommunication closets (Communications Infrastructure) and ceiling accessibility with Engineering and Seismic Retrofit Contractors. These inspections will help to coordinate efforts between the various teams for the scheduling of the new IT networking infrastructure installation.

INFORMATION TECHNOLOGY

CORE BUSINESS: Information Technology continued...

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

Preparation of Capital Improvement Program (CIP) proposals—Staff has continued to work in partnership with key business units on developing CIP proposals for future projects of the next CIP biennium as a part of the CIP evaluation process.

- Capital investments related to Metropolitan’s control system and SCADA network
- Replace end of life equipment critical to supporting operations and enhance security

System-wide Control System Upgrade—This project is comprised of a multi-phased approach for replacing/upgrading the Control System critical to Metropolitan’s operations, water delivery, water quality, and infrastructure monitoring.

- As a part of the planned procurement strategy, staff published a Request for Qualification to prequalify control systems. The RFQ is scheduled to close in early November when the team will focus on finalizing a Request for Proposal, which is tentatively scheduled to be published during the first quarter of the new year.

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

IT Disaster Recovery Project—This project upgrades the server, storage capacity, and backup devices at the IT Disaster Recovery (IT-DR) Facility data center to provide sufficient capacity to run critical systems in a High Availability architecture mode in the event of a disaster.

- The project team continues to work with key stakeholders to ensure testing of critical software applications to meet Metropolitan’s DR criteria. Ongoing efforts include final preparations for the October DR exercise that will validate the new enhanced disaster recovery and response capabilities. The Final User Acceptance Testing of Phase I, II, and III IT-DR applications is scheduled for next quarter.

The IT Group, working in collaboration with WSO and other key stakeholders, is in the process of acquiring new satellite phones to enhance Metropolitan’s emergency response capabilities. In addition to evaluating alternatives for improved reliability and resiliency, IT staff is investigating other technologies, to conduct a Proof of Concept to provide redundant communication paths in the event primary methods become unavailable due to outages (such as a natural disaster) or congestion of data traffic.

On-Going IT Emergency Preparedness—Metropolitan’s emergency response teams participated in the ShakeOut 2019 – Annual Metropolitan Emergency Exercise on October 17.

- Metropolitan conducted an Annual Emergency Exercise that included the activation of the IT-Incident Command Post (IT-ICP) to simulate a real-time exercise of Metropolitan’s emergency preparedness plans, processes, and supplies. This exercise tested many of Metropolitan’s emergency notifications and response processes in a realistic manner in conjunction with the state sponsored 2019 Great California ShakeOut exercise.

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

Water Ordering and Energy Scheduling System—The scope of this project is to implement a system that allows member agencies to submit flow change requests via a secure web application. In addition, it will replace existing Energy Management software providing key functionalities for operational schedule management.

- This application is integrated with Metropolitan’s Water Information System and leverages cloud technology, enabling member agencies to submit request changes.

INFORMATION TECHNOLOGY

CORE BUSINESS: Information Technology continued...

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

Request for Proposal bidding process. The project team is preparing to begin discussions with key stakeholders to negotiate an agreement with the selected vendor. Upon completion of the overall design and scope of the new system, staff will return to the Board to seek approval to proceed with awarding the contract. Current target Board date is December 2019.

Digital Asset Optimization—This project will remove redundant, obsolete, and trivial files from the network shared drives in preparation for the Enterprise Content Management (ECM) implementation. IT staff is working in collaboration with key stakeholders on file share clean-up by identifying and reducing duplicate and/or obsolete data (ROT). File share cleanup is important because electronic data requires storage (hardware) and back-ups, which take up valuable resources when the data is no longer needed, duplicated, or has passed its retention period.

- During the period, the team continued to migrate the Engineering Services files and structure in a phased migration approach and is currently on schedule for completion by the end of the calendar year. Concurrently, the project team continues to hold meetings with Water System Operations discussing the ROT cleanup and the retention schedule. The migration of WSO files and structure is tentatively scheduled for the first quarter of the new year.

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

PC Replacement Project (PCRP)—This project will replace end-of-life computers for all staff and operations (instrumentation, testing, modeling, etc.) throughout Metropolitan.

- During the previous period, staff continued working with organizations to identify business critical applications to finalize Metropolitan's new standard operating system platform. Staff has also begun the procurement process of ordering the necessary equipment and space allocation in preparation of the delivery of the first laptops for testing by selected employees.

mwdh2o.com Upgrade—IT continued to work in collaboration with External Affairs on Metropolitan's main website (mwdh2o.com) upgrade project. The replacement of mwdh2o.com will provide for a user-friendly content management system, mobile-responsive user interface, and search engine optimization leveraging current technology.

- As part of the design phase, the project team continued conducting interviews with External Affairs stakeholders and performing an inventory of all pages connected to the mwdh2o.com site. Towards the end of the current fiscal quarter, the first review of the complete sitemap and content guide will be completed.

Learning Management System (LMS) Replacement—This project replaced the end-of-life PeopleSoft Enterprise Learning Management System (MyLearning), which was used to manage Metropolitan's training curriculum, course approvals, enrollment, and notifications.

- During the prior period, IT completed work with key stakeholders to deploy the new cloud-based Learning Management System (SABA). SABA provides streamlined workflows, features, and reporting capabilities and provides new training options for Metropolitan employees. Planned for next quarter, SABA will integrate with LinkedIn Learning.

INFORMATION TECHNOLOGY

CORE BUSINESS: Information Technology continued...

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

- Staff is continuing to work on the design phase of the project for Water Ordering and Energy Scheduling System. With the initial testing phase substantially complete, planning is underway to begin the migration into a stage environment to allow conducting a pilot with a member agency during the upcoming quarter.

Maximo Mobile Computing Project—This project replaces existing mobile devices used in Water System Operations with the latest tablet technology. This effort will enhance access to business information and vastly increase the functionality of the existing Maximo mobile devices while potentially reducing the need for desktop computers at field sites.

- As part of the pilot phase, tablets have been deployed to field staff to evaluate user requirements, performance, and functionality. The project team continues to work with Water System Operations stakeholders to finalize account roles and processes and conduct training sessions for the WSO end-users and management. Next steps include:
 - Refining the processes to streamline future deployments for the main rollout.
 - Training for Maximo / DataSplice to be conducted by WSO Maintenance Engineering staff.

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

Financial Planning and Analysis Solution—This project will upgrade Metropolitan's budgeting system to support the capital and operations and maintenance budget processes and Board deliverables. As part of this CIP Project, Metropolitan issued a competitive Request for Proposal to solicit bids from qualified vendors for a web-based tool to develop, maintain, analyze, and report on planning and budgeting information.

- The project team previously received submissions from prospective vendors and are reviewing the proposals as part of the competitive RFP selection process.

Desert Microwave Project—This project scope is to upgrade desert microwave tower sites by replacing end-of-life equipment and providing sufficient capacity and reliability to Metropolitan's wide area network in the Desert Region.

- During the period, the project team continued to coordinate efforts with key stakeholders in the collection of initial site survey data of the microwave sites in the Desert Region as part of the Design Phase of the project. Next steps include performing a Design Review of the submission of milestone deliverables (Task 2C & 2D) and are due in October for review. The team is working with the consultant to develop estimates on construction and installation costs as part of this design phase.

Enterprise GIS Project—This project will upgrade Metropolitan's Enterprise GIS infrastructure to accommodate increasing demand for big data services and improve system performance to support three-dimensional and time series data requirements.

- The Enterprise GIS system upgrade is proceeding on schedule. Efforts to test the operational capabilities of the new web portal continued in parallel with testing of the completed installation and configuration of the additional supporting infrastructure, comprised of multiple physical and virtual servers.
- Efforts are underway to evaluate best practices of data workflow and data governance that will be incorporated into the new portal and provide advanced GIS functionality behind the scenes. Current workshops are underway with IT and Engineering Services.

Real Property Group Business System Replacement—The scope of the project is to upgrade the Real Property Group Business System software that manages acquisitions and conveyance including fee, easement, permit, sales, and other rights transfers. The software will also support the management of existing agreements and leases.

- During the prior period, the project team reviewed the submissions from multiple vendors as part of the competitive

INFORMATION TECHNOLOGY

CORE BUSINESS: Information Technology continued...

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

- MyHR (PeopleSoft) Oracle Cloud Project—IT is working in collaboration with HR on the PeopleSoft move to the cloud environment. This project will shift MyHR (PeopleSoft) to the Oracle Cloud. Staff recently completed the network design and architecture for a cloud development environment. The next step is to complete the connection between the on-premise hardware infrastructure and the cloud environments.
- As part of the IT Strategic Roadmap, staff worked at CoreSite (an off-site data center) to improve network reliability, capability, and redundancy to prepare for Metropolitan's migration to cloud processing.

REAL PROPERTY

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 completed the following Institute for Management Studies training: *Moving from Operational Management to Strategic Leadership*.
- Staff completed the following International Right of Way Association-sponsored courses: *Social Ecology: Listening to Community and Principles of Real Estate Appraisal*.
- Staff completed the following Women's Institute of Negotiation training: *Women's Negotiation and Leadership Certificate series*.
- Staff completed the following American Society of Farm Managers & Rural Appraisers course: *Integrated Approaches to Value*.

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.

Two transactions were executed in support of the Right of Way Infrastructure Protection Program in Orange County:

- A permanent road easement was acquired in the city of Tustin to allow Metropolitan non-exclusive vehicular and pedestrian access over 0.366 acres of property for patrol and maintenance of the Allen-McColloch pipeline. This easement protects Metropolitan's access to the pipeline by increasing the existing easement area.
- A six-month lease agreement was acquired by Metropolitan from June 2020 through December 2020, comprising 0.161 acres of vacant land in the city of Tustin to be used as a construction staging/storage area for repairs to the Allen-McColloch Pipeline.

REAL PROPERTY

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.

Twenty acres of surplus property in the city of Oxnard, Ventura County, was sold to a non-profit buyer for \$1,785,000.

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.

The Western Science Center held its annual Science Under The Stars fundraiser at Diamond Valley Lake. Several prizes were auctioned to raise funds for the programs and work of the Science Center to educate the public on the rich paleontological history of the DVL area.

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

Staff in conjunction with the Seismic Project Team, completed the restoration of the P1/P2 parking levels. This included the restriping and relabeling of reserved parking.

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: Provide real property services for environmental stewardship and sustainability.

Staff facilitated the permit process of obtaining three geotechnical permits for monitoring well installation from the city of Long Beach for the Second Lower Feeder Prestressed Concrete Cylinder Pipeline Rehabilitation Project Reach 9 to test groundwater and soil conditions to assist Project Management in determining the preferred pipeline alignment.

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. Metropolitan will examine new opportunities to leverage technology and innovation to promote conservation, efficient water use and water stewardship through a comprehensive demand management program that includes investments in research, innovation, and public education along with targeted incentives for the residential, commercial, industrial, and institutional sectors.

Objective: Implement Conservation Program.

BOMA Summit—Metropolitan staff participated on a panel for the Building Owners and Managers Association Greater Los Angeles (BOMA/GLA) Sustainability Summit. Staff discussed Metropolitan's water efficiency incentives and general water resource planning objectives for an audience of about 50 LA-area building owners and managers.

Conservation Credits Program Advisory Committee Meeting—Metropolitan staff met with member and retail agency staff for the quarterly Conservation Credits Program Advisory Committee (PAC) Meeting. Attendees focused discussions on clarification of requirements for the Turf Replacement Program. The next PAC meeting is December 4, 2019.

2019 WaterSmart Innovations Conference—Metropolitan staff attended the 2019 WaterSmart Innovations Conference and Expo (<http://watersmartinnovations.com/>). This annual national conference, held in Las Vegas, NV, highlights water conservation studies, programs and technologies throughout the country. Several staff gave four presentations on Metropolitan programs and research findings, including topics such as the Innovative Conservation Program, Disadvantaged Communities Initiative, Water Efficiency Projects, and Incentive Programs. Staff also co-chaired or attended Alliance for Water Efficiency Committee meetings

AWWA California-Nevada Section Fall Conference—Metropolitan staff presented at the AWWA California-Nevada Section Fall Conference in San Diego on a panel entitled "From A to Z, Energy Efficiency for the Water Sector."

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. The emphasis for the State Water Project will be on working with the Newsom Administration to make the necessary revisions to the process to accommodate a single-tunnel approach with minimal loss of time. On the Colorado River, the emphasis over the next year will be on implementing the completed Drought Contingency Plan providing stability on the Colorado River while protecting Metropolitan's supplies and access to storage in Lake Mead.

Objective: Ensure access to sufficient water supplies to operate a full Colorado River Aqueduct in times of drought.

Brock Conservation Report—Metropolitan staff participated in the review of the Brock Conservation Report, including meeting with other project funders to discuss the results. The report documents the system conservation provided by the Brock Reservoir and supports the System Efficiency Intentionally Credited Surplus credits given to project funders, including Metropolitan.

Minute 323 Binational Work Group—Metropolitan staff participated in the "Projects" Minute 323 Binational Work Group in Mexicali on September 25. The Mexican delegation provided an update on the progress of implementation on Minute 319 projects, which will be completed, and the final amount of water conserved in 2019. The American delegation made several presentations on fallowing and other ongoing on-farm conservation programs in the United States and discussed if Mexico would consider implementing those types of projects

Binational Desalination Work Group—In October 2019, Metropolitan attended a meeting of the Binational Desalination Work Group (BDWG) in Tijuana, Mexico. The meeting focused on discussion of a draft feasibility assessment of five opportunities for a 100,000 acre-feet/year desalination plant on the Sonoran coast of the Gulf of California. Metropolitan partially funded the feasibility study through the Six Agency Committee administered by the Colorado River Board of California.

WATER RESOURCE MANAGEMENT

GM STRATEGIC PRIORITY: Maximize Local Resources

Staff will begin work with the Board and member agencies on a review of issues associated with the Regional Recycled Water Program.

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

WaterReuse—Staff developed and shared a recycled water legislative and regulatory update at the October 8 Los Angeles Chapter WaterReuse meeting held at the Water Replenishment District of Southern California's new advanced water treatment facility in Pico Rivera.

Staff also presented at the Orange County Chapter WaterReuse meeting on Metropolitan's new Stormwater for Direct Use Pilot Program. The presentation provided details on the program that will launch in January 2020.

Objective: Implement Local Resources Program.

Groundwater Reliability Improvement Program—One of the contracted projects for local supplies, the Groundwater Reliability Improvement Program, commenced operation. The project is owned and operated by the Water Replenishment District, which will produce about 10,000 acre-feet per year of purified recycled water for groundwater recharge in the Central Basin.

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: Promote learning and increased technical capacity of staff.

Colorado River Simulation System Model—Metropolitan organized and hosted a two-day training class on U.S. Bureau of Reclamation's Colorado River Simulation System Model, which is used for long-term planning and policy development. USBR staff came and covered topics including how to build and utilize different demand and supply sets, as well as how the model implements reservoir operation rules, assesses hydrologic shortages, accounts for evaporation, etc

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 173,000 acre-feet of water to member agencies in October. October deliveries averaged approximately 5,600 AF per day, a decrease of 500 AF per day from September deliveries. Treated water deliveries for October totaled 75,000 AF, or 44 percent of total deliveries for the month. This was a decrease of about 7,000 AF from September treated water deliveries. The Colorado River Aqueduct transitioned from a 3-pump flow to a 2-pump flow, or 920 AF per day on October 9. The CRA is expected to remain at a 2-pump flow or lower for most of the remainder of 2019 to meet storage objectives while allowing for a capital project that will replace power cables at all CRA pumping plants. A total of 32,000 AF of Colorado River water was pumped in October. State Water Project imports averaged 4,200 AF per day, totaling 131,000 AF for the month. The target SWP blends were 85 percent at the Weymouth and Diemer plants and 75 percent at the Skinner plant during the month of October.

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

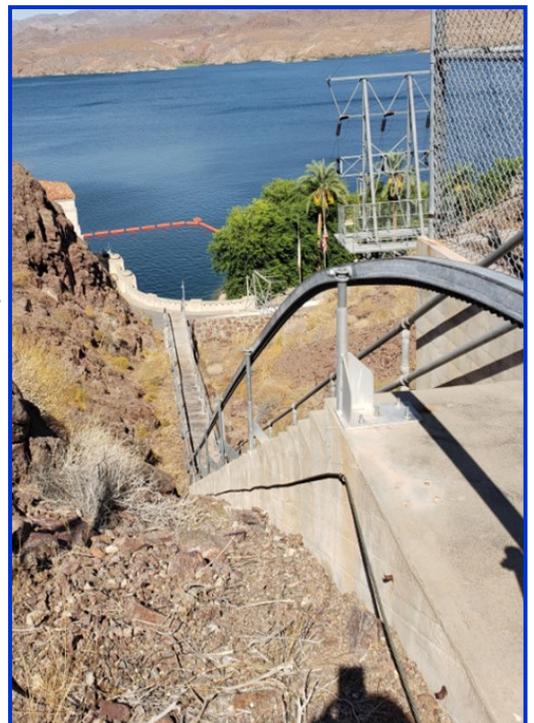
Metropolitan complied with all water quality regulations and primary drinking water standards during the month of September 2019.

On October 29, Metropolitan hosted its quarterly meeting with the State Water Resources Control Board's Division of Drinking Water. Key discussion topics included an update on nitrification, status of the Skinner plant's permit amendment, regulatory updates, per- and polyfluoroalkyl substances, a review of disinfection byproduct data within Metropolitan's service area, and recent organizational changes in the Water Quality Section.

Staff submitted the 2020 application renewal for Nevada Highway Patrol Hazardous Materials Permit. This permit is retained by Metropolitan to ensure the ability to transport chlorine gas from Nevada in the event of a shortage or stoppage with in-state chemical vendors.

Staff worked diligently with Cal/OSHA to receive a permit to operate an equipment and materials transport monorail system at the Intake pumping plant at Lake Havasu. As the system is unique and manufactured overseas, meeting Cal/ OSHA's permitting requirements required extensive research and coordination. This system is critical for the safe transport of heavy equipment and supplies to higher elevations at the facility. This allows staff to conduct key maintenance, such as repairs and testing at the switchyard located above the penstocks. *(see photo right)*

The equipment and materials transport monorail system (Monorack M500, manufactured in Switzerland) at Intake pumping plant.



WATER SYSTEM OPERATIONS

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

Objective: Actively Engage in Capital Project Planning and Execution.

Staff installed a new valve and piping on the ozone cooling water system at the Diemer plant. This work is part of a capital project to provide an alternate water supply for the ozone cooling water system (currently raw water is utilized for the cooling water system). The cooling water is used to control temperature within the ozone generators and power supply units. Additional work will be performed during a scheduled plant shutdown in March 2020. After the project is complete, the Diemer plant will utilize ozonated water for its cooling water supply, which will reduce maintenance frequency for the ozone equipment and improve reliability. *(see photos below)*



(Left) Staff installing a new stainless steel pipe tee for the ozone cooling water system at the Diemer plant.

(Right) Newly installed butterfly valve on the ozone cooling water system at the Diemer plant.



Objective: Optimize Maintenance.

Staff isolated and dewatered the regulating reservoirs at Iron and Eagle Mountain pumping plants to remove sand, silt, and debris. Buildup of material reduces the capacity and effectiveness of the reservoirs and requires periodic cleaning. *(see photo below)*

Staff removing sand, silt, and debris from the regulating reservoir at the Eagle Mountain pumping plant.



WATER SYSTEM OPERATIONS

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

Objective: Optimize Maintenance. Continued....

- Staff utilized a scheduled Department of Water Resources shutdown of the Santa Ana Valley Pipeline to conduct preventative maintenance at the Mills plant. With no flow coming to the Mills plant for a four-hour period, staff exercised two influent multi-jet slide gates that control water flow into the plant. Staff determined that the slide gate guides will require follow-up maintenance during a scheduled plant shutdown in mid-January 2020. This maintenance will include cleaning and lubricating all moving parts and sealing surfaces to increase reliability under low-flow conditions.
- Staff completed repairs to large submersible pumps at the Weymouth plant. These pumps are used during scheduled shutdowns to dewater pipelines. To verify pump performance, staff tested the repaired pumps by lowering them into water and measuring the volume produced with a portable flow meter.
- The next reach of the Second Lower Feeder rehabilitation work began on October 21, when staff removed an 11-mile section of the pipeline from service to allow a contractor to begin relining work. During this planned outage, 4.5 miles of the prestressed concrete cylinder pipe will be relined in the city of Long Beach. The relining work is expected to take seven to eight months. During this time, two bulkheads are being installed. The bulkheads, combined with the flexibility of interconnections on the system, will allow portions of the pipeline to go back into service during the relining project.
- Preparing for periodic maintenance of Metropolitan's hydroelectric plants (HEP) can involve more than just taking the unit out of service. As part of the five-year maintenance of the Lake Mathews HEP, staff mobilized a long-reach crane to lift the concrete tailrace block from the HEP outlet structure. Once the block is removed, an isolation gate is installed to keep water out of the turbine area so staff can perform inspections and any needed repairs. *(see photo below right)*
- During scheduled inspection and testing of power transformers at the Intake pumping plant, staff identified an issue with one of the transformers. The transformer was subsequently taken out of service and replaced with a spare. Staff transported the transformer to a specialized vendor for disassembly, inspection, and repair or replacement. Transformers are used at the Colorado River Aqueduct pumping plants to step down voltage from the incoming 230kV system to supply power to operate the CRA pumps. *(see photo below left)*



Preparing to transport a transformer from Intake pumping plant to a repair facility.



Staff removing the tailrace block from Lake Mathews HEP.

WATER SYSTEM OPERATIONS

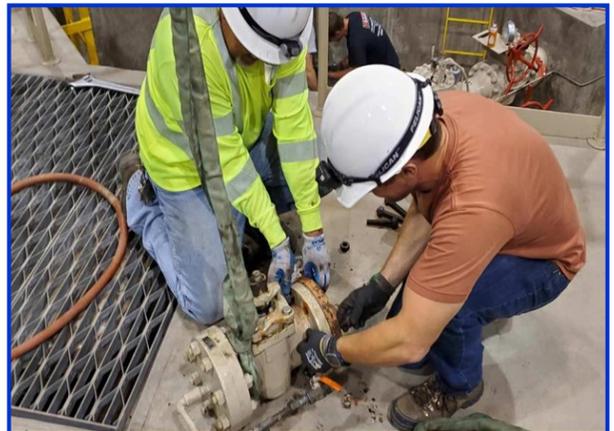
GM STRATEGIC PRIORITY: Enhance Infrastructure Safety, Security and Resiliency continued...

Objective: Optimize Maintenance. Continued....

Staff continued periodic inspections on the Second Lower Feeder under the comprehensive PCCP Rehabilitation Program. This month, a section of pipeline from the Diemer plant (city of Yorba Linda) to Carbon Creek Pressure Control Structure (city of Placentia) was inspected. Once staff dewatered and provided access to the 84-inch diameter pipeline, contractors used eddy current inspection equipment to inspect and analyze five miles of pipeline. This technology has proven effective for determining pipeline condition and is instrumental in prioritizing repair sites. While the contractor performed the inspection, staff utilized the outage to replace two older valves that were nearing the end of their service life. *(see photos below)*



Staff removing access flange along the Second Lower Feeder



Staff replacing older valve along the Second Lower Feeder.

- Staff continued system-wide preventive maintenance on multiple structures, aimed at improving equipment and structures as well as maintaining system capacity. This month, staff sandblasted and coated an air release structure along the Foothill Feeder in the city of Santa Clarita. This structure is intended to release air through a valve to protect the pipeline and serves as an access point for lowering large equipment into the tunnel for maintenance.
- The La Verne Shops refurbished two flow control valves that regulate pressure in the distribution system at Venice Pressure Control Structure. There are a total of 20 valves to be refurbished. These valves are corroded and unreliable after being in service for approximately 50 years. Staff disassembled each valve for assessment, machined a shaft and nut, weld-repaired the valve body, and coated the carbon steel parts to protect against corrosion. *(see photos below)*



Severe corrosion of the valve components before (left) and after (right) repairs for Venice PCS.

WATER SYSTEM OPERATIONS

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

Objective: Manage the Power System

Following the Boulder Canyon Project Technical Review Committee meeting held on last month, Metropolitan developed comments on the federal fiscal year 2021 Hoover power operations, maintenance and replacements budgets. These comments were coordinated with other Hoover contractors and will be submitted to the U.S. Bureau of Reclamation in October 2019. Overall, the comments are intended to elicit feedback from USBR on technical issues and expenditure justifications and to recommend changes to the FY 2021 budget to minimize increased expenditures.

On October 1, the Power Purchase Agreement between Metropolitan and the California Department of Water Resources went into effect. The agreement provides for the sale of capacity, energy, and environmental attributes from the Foothill Feeder, Lake Mathews, San Dimas, and Yorba Linda hydroelectric plants. The expected revenue from these plants over the three-year term of the agreement is expected to be \$18.8 million.

Staff met with the Arizona Electric Power Cooperative's (AEPCCO's) North American Electric Reliability Corporation (NERC) compliance team to discuss a number of compliance initiatives related to mandatory electric reliability standards. During the meeting, AEPCCO shared their experiences in preparing for Western Electricity Coordinating Council audits and transforming their NERC compliance program to further their commitment towards a culture of compliance.

Objective: Improve Security and Emergency Response.

On September 24, staff attended a special meeting sponsored by the California Utilities Emergency Association (CUEA) at Southern California Edison. The meeting, attended by representatives from various CUEA partner utilities, covered a review of Edison's current plan to de-energize specific circuits in high-risk fire areas during high winds and low humidity events.

On October 15, staff attended a special Agency Representative training at the Los Angeles County Emergency Operations Center (EOC). This training covered how staff would represent Metropolitan's interest in a County EOC during a large emergency.

On October 10, the Saddleridge Fire started in the Sylmar area. With low humidity and Santa Ana wind conditions, the fire spread across about 8,000 acres to the boundary of the Jensen plant. Staff quickly responded to ensure safe working conditions. There was no significant impact to plant operations. Emergency management staff monitored the fire while Jensen plant staff switched from ozone to chlorine as the primary disinfectant due to periodic power outages. All disinfection requirements and water quality goals were met. Due to freeway and road closures, some chemical deliveries were cancelled as the plant had sufficient chemical storage on site. On-site staffing was also effectively managed while considering the various access constraints due to the fire. Staff utilized WebEOC to communicate updates on the fire and operational conditions, and updated the Los Angeles County EOC on the status of Metropolitan facilities in the fire-impacted area.

Objective: Optimize Water Treatment and Distribution.

State Water Project target blend entering the Weymouth and Diemer plants was 85 percent and entering Lake Skinner was 75 percent in October 2019.

Flow-weighted running annual averages for total dissolved solids from August 2018 through July 2019 were 460, 449, and 452 mg/L for Weymouth, Diemer, and Skinner plants, respectively. Lower than normal total chlorine (chloramine) residuals and increased nitrite in some parts of the distribution system in late September and early October prompted temporary water treatment and flow changes. These changes included raising pH targets at Weymouth, Diemer, and

WATER SYSTEM OPERATIONS

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

Objective: Optimize Water Treatment and Distribution. Continued...

Jensen plant effluents; increasing the total chlorine residual target at the Weymouth plant, increased monitoring for nitrite and chlorine residuals at all impacted sites; and temporarily increasing flow in the Middle Feeder and through Garvey Reservoir. As a result of these operational changes, chlorine and nitrite levels improved in Garvey Reservoir and throughout the affected distribution system.

Staff improved data communication from water quality instruments at the Weymouth plant. The plant is equipped with two ammonia analyzers at the plant effluent that were using a single communication cable. Staff installed a separate communication/data cable for each analyzer, integrated the signal changes into the control system, and re-plumbed the sample lines. The additional communication signal and sample lines enhance the plant's reliability for monitoring finished water quality. *(see photos below)*



Ammonia analyzers at the Weymouth plant.



Newly installed sample lines to ammonia analyzers.

- Staff continued replacement of two fluorosilicic acid (fluoride) tanks at the Jensen plant. The contractor and Metropolitan staff used a template to properly locate and core drill holes for the tank anchor bolts. Staff then coated the tank pad. A temporary feed system will be put in place to ensure continuous operation while the tanks are being replaced.
- Staff replaced the air-conditioning system for the electrical room of the chlorine building at the Weymouth plant. The previous unit was deteriorating and experienced intermittent failures, which have the potential of impacting critical chlorine system equipment due to higher temperatures. Staff implemented a temporary cooling system to prevent any impact to critical equipment during replacement. The new unit installed is more dependable and meets higher energy efficiency standards.
- Staff upgraded water quality instrumentation at the Jensen plant reservoir effluent sample location. Staff replaced obsolete ammonia, turbidity, and pH analyzers with new, updated analyzers. These new analyzers enhance the accuracy of real-time water quality information that is used to adjust chemical feed and operations. These new on-line field analyzers are also much closer to the precise instrumentation in the laboratory. In addition, the new equipment has advanced diagnostic capabilities that will reduce the maintenance required. *(see photo right)*

New turbidity analyzer at the Jensen plant.



WATER SYSTEM OPERATIONS

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

Objective: Optimize Water Treatment and Distribution. Continued...

Staff added filter media (anthracite coal) to the east filters at the Diemer plant to replace media that is lost during normal operations. *(see photo right)*

Staff adding anthracite coal to the east filters at the Diemer plant



Newly installed air compressor at the chlorine building at the Skinner plant.

Staff installed a new air compressor for the chlorine containment building at the Skinner plant. The main plant air compressor system distributes air throughout the facility, supporting many different operational and maintenance functions. With this wide distribution of piping, small leaks cause the plant's main compressors to run continuously. By installing a dedicated compressor for the chlorine building, the main plant air compressors can be run for only 60 hours a week, reducing the weekly run time by over 100 hours. This increases system reliability, reduces electricity usage, and decreases air-compressor service hours by about 5,600 hours each year. *(see photo left)*

Staff is in the process of installing a newly rebuilt flocculator gearbox at the Weymouth plant to replace one that was failing. Flocculators are comprised of rotating horizontal shafts with paddles to slowly mix the water with added treatment chemicals are a key part of the treatment process. *(see photo right)*

Staff installing a new flocculator gearbox 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 October 9, Metropolitan submitted comments on State Water Resources Control Board's (SWRCB's) second edition of the direct potable reuse (DPR) framework. The framework serves as a roadmap for how these projects will be regulated in California. The SWRCB is proposing to develop a single regulatory package for all forms of DPR (both raw and treated water augmentation).

Objective: Provide Technical Support to Member Agencies.

On October 4, staff held a meeting with member agencies to respond to nitrification concerns. The meeting included Long Beach and West Basin, as well as some of their retail agencies including Golden State Water Company, California Water Service, and the city of Inglewood.

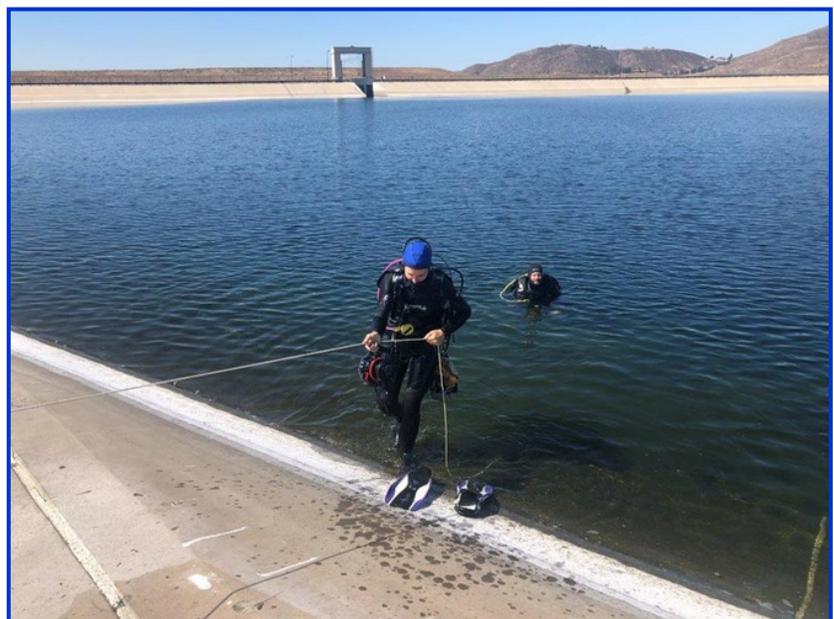
GM STRATEGIC PRIORITY: Prepare for More Extreme Hydrology

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. Metropolitan will examine new opportunities to leverage technology and innovation to promote conservation, efficient water use and water stewardship through a comprehensive demand management program that includes investments in research, innovation, and public education along with targeted incentives for the residential, commercial, industrial, and institutional sectors.

Objective: Examine and Mitigate Adverse Water Quality Outcomes

Higher temperatures late in the year have resulted in algae growth in some of Metropolitan's reservoirs and canals. In order to target specific locations for treatment, water quality divers inspect suspect areas. This month, the San Diego Canal was treated following an incident of algae causing some blockage of screens. Divers also inspected the Wadsworth pumping plant forebay at Diamond Valley Lake and found that treatment was not needed. *(see photo below)*

Divers entering the forebay of Wadsworth pumping plant at DVL.



WATER SYSTEM OPERATIONS

GM STRATEGIC PRIORITY: Prepare for More Extreme Hydrology continued...

Objective: Manage Water Reserves

State Water Project imports into the service area in October accounted for about 75 percent of Metropolitan's deliveries. Storage at Diamond Valley Lake is at 754,000 AF, or 93 percent full. Water reserves continued to be managed according to Water Surplus and Drought Management principles and the 2019 Annual Operating Plan, while considering the Final SWP allocation of 75 percent. Metropolitan continued deliveries to AVEK, Kern Delta, and Semitropic Storage accounts in October. Staff continues to work with the groundwater banking partners to increase scheduled storage at every opportunity. Deliveries of Colorado River water to groundwater storage in the Advanced Delivery Account with Desert Water Agency and Coachella Valley Water District (DWCV) continued until October 28, for a year-to-date delivery of about 235,000 AF. Deliveries to Cyclic and Conjunctive Use programs also continued in October, totaling about 134,000 AF to date. Deliveries to member agencies through the Cyclic Cost Offset Program continued in October, totaling 20,000 AF to date. Staff continues to manage storage in 2019 to meet anticipated demands and end-of-year operational targets.

GM STRATEGIC PRIORITY: Maximize Local Resources

Staff will begin work with the Board and member agencies on a review of issues associated with the Regional Recycled Water Program.

Objective: Support the Regional Recycled Water Program.

On October 1, pathogen pre-testing started at the Regional Recycled Water Advanced Purification Center in Carson, as a prelude to baseline monitoring of the demonstration plant performance. Including samples that were collected during the equipment commissioning phase, a total of 55 samples for pathogens (*Cryptosporidium* and *Giardia*) or microbial indicator organisms have been analyzed from various points within the treatment process. Also, to enhance site safety, staff installed a biosafety cabinet that will be used for processing microbial samples and provided training on chemical receiving procedures and proper chemical handling and storage. In addition, staff installed signs to identify facilities and began equipping the onsite laboratory with analytical instruments to support testing and monitoring. (*see photos below*)

A sampling station for concentrating *Cryptosporidium* and *Giardia* from secondary effluent



Staff sampling a membrane bioreactor for bacterial analyses



WATER SYSTEM OPERATIONS

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 28 megawatts or about 20,800 megawatt-hours, and \$1.2 million in revenue, for the month of August. Metropolitan's solar facilities, totaling 5 megawatts of capacity, generated about 790 megawatt-hours in September.

Objective: Protect Source Water Quality.

On October 21, staff met with Pacific Gas and Electric to discuss the status of the Topock Chromium-6 Groundwater Remediation Project. PG&E provided an update on project construction, underway since October 2018, and discussed proposed adjustments to the operation of the long-term remedy.

On October 28, staff hosted a Project Advisory Committee meeting for a Metropolitan-led Water Research Foundation project on improving methods for detecting cyanotoxins in water.

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 7 vacant positions in September 2019.

Objective: Prepare Employees for New Opportunities.

October 14, the WSO Management Academy Class of 2019 graduated. This was the fourth session of the academy and the 23 graduates presented their final presentation to the class and management. In addition, executive managers addressed the class on a number of key management and leadership principles and initiatives. Human Resources Group Manager Pitman discussed upcoming management classes, Water System Operations Interim Group Manager Yamasaki highlighted aspects of teamwork when moving into management, and Chief Operating Officer Upadhyay spoke on empowerment, accountability, and developing your own management philosophy. *(see photo right)*

WSO Management Academy
Class of 2019 graduates.



WATER SYSTEM OPERATIONS

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

Objective: Support Education and Outreach Initiatives.

- On September 26, staff participated in the *Channels for Innovation Summit* in Las Vegas. Staff presented Metropolitan's innovative efforts to ensure reliability and accuracy of our billing flow meters, and participated in a group discussion that highlighted Metropolitan's condition-based maintenance and mobile tablet implementation. *(see photo below)*
- On October 11, staff provided a tour of the Water Quality Laboratory and Weymouth plant as part of a member agency-sponsored inspection trip of the Colorado River Aqueduct system.
- On October 14, staff also provided a tour of the Water Quality Laboratory for administrative staff from the California State Polytechnic University, Pomona's Cooperative Education Foundation. The tour focused on daily activities at the lab that involve co-op students, lab safety-related issues, and expectations for students when working at the lab.
- Staff provided a tour of the Diemer plant for reserve firefighters from the Orange County Fire Authority. The tour included a site orientation, treatment process review, and a discussion on emergency response activities. *(see photo below)*



Staff presenting at the Channels for Innovation Summit.



Staff conducting a tour for reserve firefighters from the Orange County Fire Authority at the Diemer plant.

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.

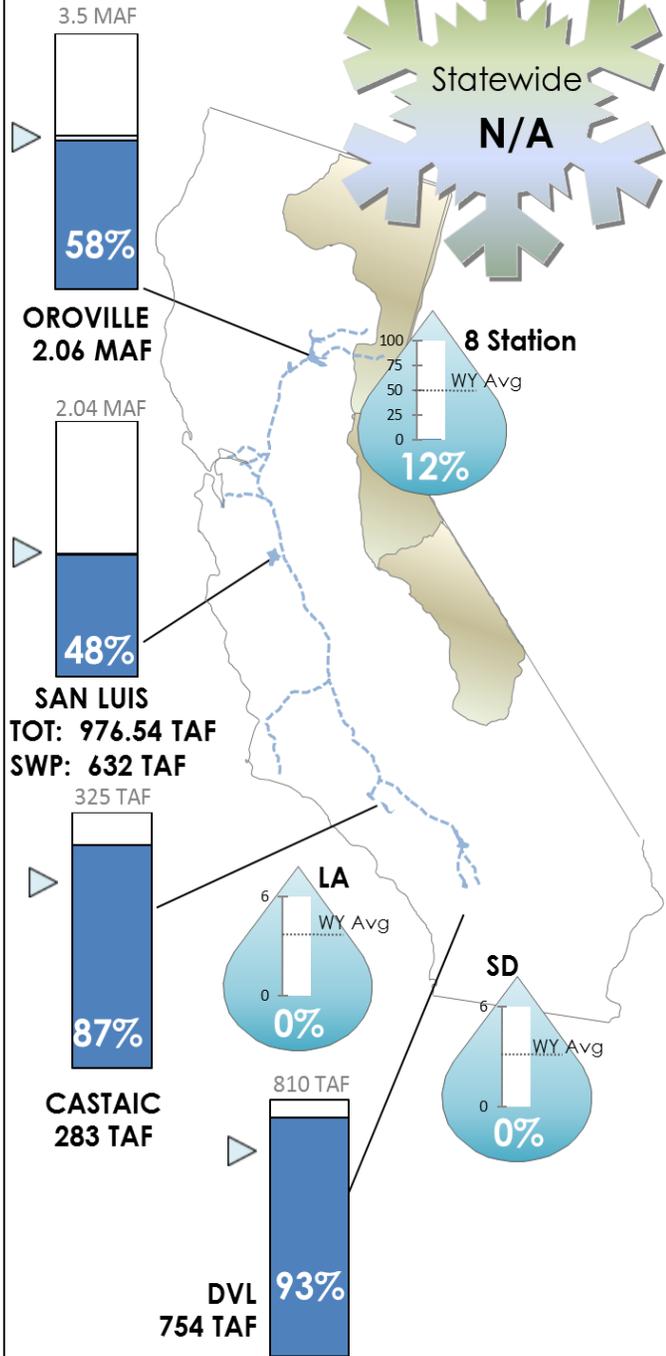
Staff completed excavation for a new service connection near the Skinner plant and began construction of upstream/downstream vaults in preparation for a December shutdown. The new service connection will be on San Diego Pipeline No. 4 and the pipeline tie-in will be performed during the upcoming shutdown. This service connection will provide the San Diego County Water Authority with greater operational flexibility on Pipeline No. 4 and will work in conjunction with the SD-7 service connection to meter water at lower flowrates.

2019 SWP Allocation

1,433,625 AF

75% of Table A

(Does not include CVWD & DWA Table A)

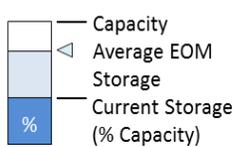
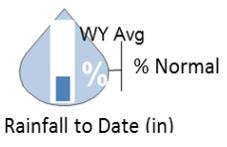
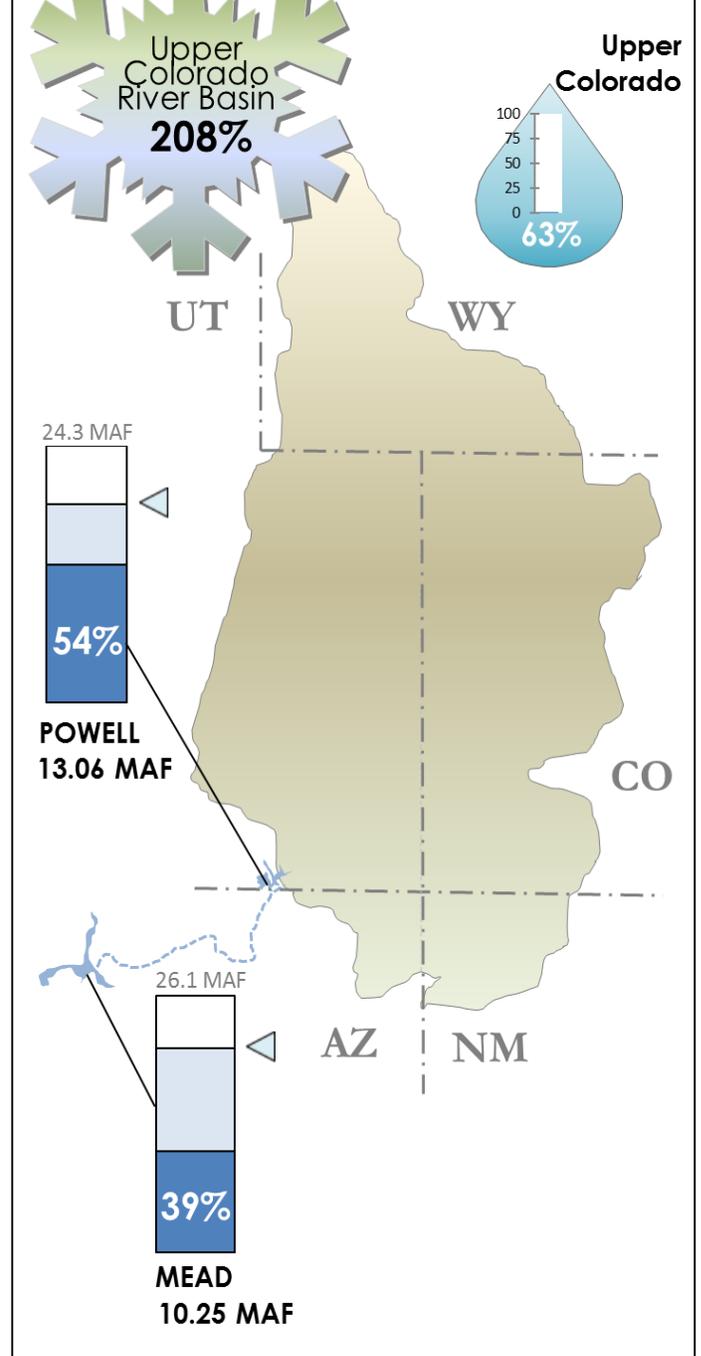


2019 Colorado River

915,354 AF

73% of full CRA

(Does not include storage withdrawals)



SECURITY

Improve Security and Emergency Response

“Stop the Bleed” is a national awareness campaign from the Department of Homeland Security. It encourages bystanders to become trained, equipped, and empowered to help in a bleeding emergency before professional help arrives. The purpose of this training is to convert bystanders into immediate responders, who can then potentially save the lives of those with life-threatening injuries. Metropolitan offered six voluntary training sessions to employees who were interested in learning how to properly use the newly acquired bleeding control kits now installed at all occupied Metropolitan facilities. The classroom-style two-hour courses were held at the Headquarters facility on October 15 and October 16. Every participant received a certificate of completion. *(see photo below)*

Metropolitan employees participating in hands-on demonstration of bleeding control techniques as part of the “Stop the Bleed” campaign and training



Metropolitan’s Mission is to provide its service area with adequate and reliable supplies of high-quality water to meet present and future needs in an environmentally and economically responsible way.

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

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

www.MWDH2O.com

www.BEWATERWISE.com