



The Metropolitan Water District of Southern California
 General Manager’s Monthly Activity Report for August 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.

AUGUST 31, 2019

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:

Garvey Reservoir Drainage and Erosion Improvements, Areas 2, 3, and 4—This projects installs a permanent drainage system and erosion control features, including installation of drainage piping, concrete ditches, stem walls, flow detention, and dissipation structures; grading; surface improvements; fence removal and installation; and hydroseeding. Construction is 65 percent complete and is scheduled to be complete by October 2019. *(see photo below)*



Area 2 installation of new 18’ pipe to replace existing 8” storm drain pipe

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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.

Joint Powers Authorities

The Delta Conveyance Design and Construction Authority (DCA) held a Board meeting on August 15. The agenda included a workshop to discuss options for staffing the DCA. The DCA Board also approved a resolution authorizing an investment policy. The Delta Conveyance Finance Authority did not meet in August.

CORE BUSINESS: Bay-Delta Solutions

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

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

a. Regulatory, Planning, and Legislative Support

The U.S. Bureau of Reclamation and the California Department of Water Resources have been working with the U.S. Fish and Wildlife Service (USFWS) and National Marine Fisheries Service (NMFS) on the reinitiation of consultation for the Coordinated Long-Term Operation of the Central Valley Project and the State Water Project. The USFWS and NMFS released revised draft biological opinion documents on July 31, 2019, for another round of independent peer review and for review by the public water agencies as authorized under the 2016 Water Infrastructure Improvements for the Nation Act. Staff participated in the review of the documents.

State Water Resources Control Board (SWRCB)

The State Water Resources Control Board is in the process of updating the Water Quality Control Plan for the San Francisco Bay/Sacramento-San Joaquin Delta Estuary. The Secretaries of the Natural Resources Agency and the California Environmental Protection Agency continued to lead the separate but related effort to negotiate Voluntary Agreements (VAs) with water users to support environmental objectives through a broad set of tools, while providing water supply reliability. In August, staff provided technical review of the environmental and biological targets for the VAs for the Delta and provided comments and suggestions to better define the targets.

Objective: NEAR-TERM DELTA ACTIONS b. Science Development

On August 19, the State Water Contractors (SWC) released the 2018-2019 Annual Report on investments in science (https://swc.org/files/SWC_2018_2019_Annual%20Science%20Report.pdf). The areas of SWC science investment that are highlighted in the report include water project operations to minimize fish entrainment, Delta stressors, models and technology development, habitat restoration, Delta outflow and collaborative science efforts.

Staff continued participating in the Collaborative Science and Adaptive Management Program (CSAMP), including participation on the Collaborative Adaptive Management Team (CAMT). In August, CAMT finalized the CSAMP Triennial Report 2016–2018, which summarizes the activities for the program over the three-year period. CAMT also received a presentation on the Delta smelt entrainment study that is addressing questions of which factors affect Delta smelt entrainment and what are the effects of entrainment on the Delta smelt population.

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

Risk Management completed 58 risk assessments on contracts, including professional service agreements, construction contracts, entry permits, special events, and film permits. .

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

On August 20, 2020, the Board adopted the resolution establishing the ad valorem property tax rate for FY 2019/20 of .0035%, the same rate levied in FY 2017/18. Finance reported the certified assessed valuations for fiscal year 2019/20 and tabulation of assessed valuations, percentage participation, and vote entitlement of member agencies as of August 20, 2019. The assessed valuations for Metropolitan's service area totaled \$3.1 trillion.

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: Update capital financing plans and work with rating agencies and investors to communicate financial needs and capabilities, ensure cost-effective access to capital markets, and maintain long-term bond ratings of AA or better.

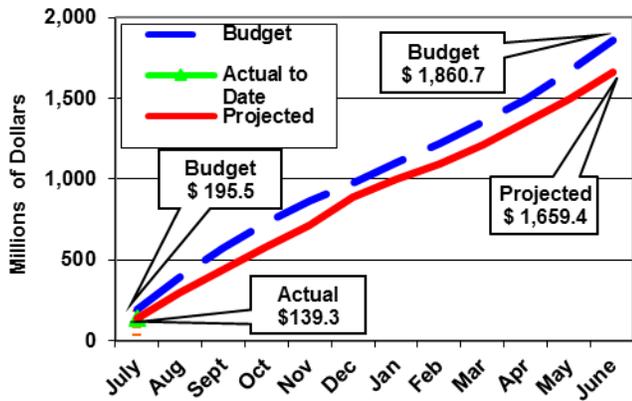
July 2019: Federal Funds Rate: 2.37% Securities Industry and Financial Markets Association (SIFMA) Index: 1.40%

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

- As of July 31, 2019, the balance in Metropolitan's investment portfolio was \$834.0 million; for the month of July 2019, Metropolitan's portfolio managers executed 44 trades.
- During the month of July 2019, Treasury staff processed 1,804 disbursements by check, 21 disbursements by Automated Clearing House (ACH), and 81 disbursements by wire transfer. Treasury staff also processed 83 receipts by check, 26 receipts by ACH, and 49 receipts by incoming wires and bank transfers.

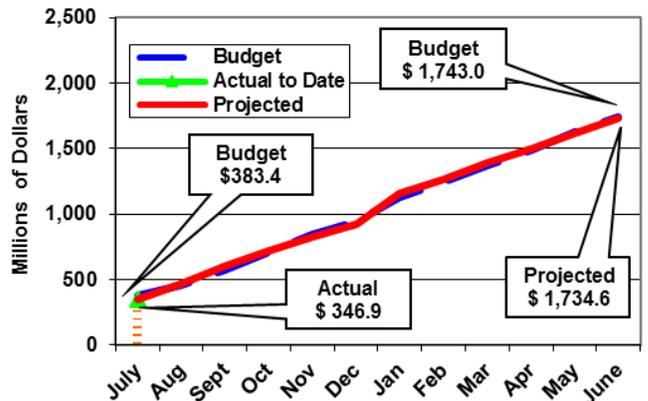
FINANCIAL SUMMARY AS OF JULY 31, 2019

Revenues are expected to be \$201.3M under budget at year end primarily due to lower water sales.



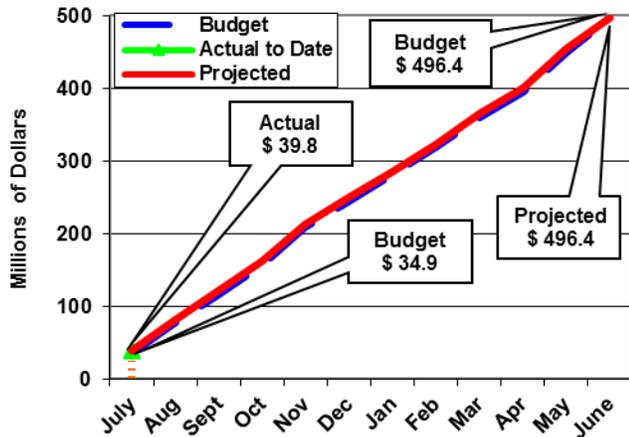
Excludes bond construction and other trust funds activity

Expenses are expected to be \$8.4M under budget at year end.

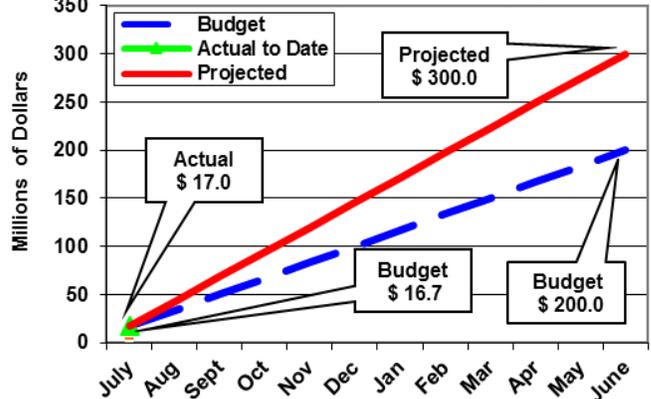


Excludes bond construction and other trust funds activity

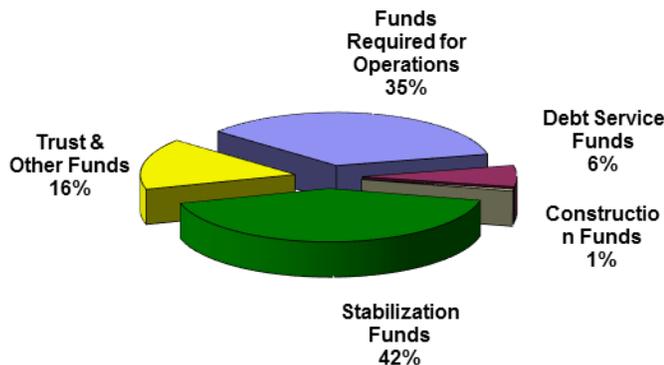
O&M expenses are expected to be on budget at year end.



Capital Program expenses are expected to be \$100.0M over budget at year end due to better than anticipated progress to complete design and award construction contracts for several major refurbishment projects.



Cash and Investments at Fair Value \$ 832.2 million



Summary Financial Statistics

	Target	Year-End Projected
Fixed Charge Coverage	≥ 1.20 x	1.16 x
Revenue Bond Coverage	> 2.00 x	1.36 x
Revenue Bond Debt / Equity Ratio	< 100.0%	57.5%

Senior Lien Revenue Bond Credit Ratings

	Target	Year-End Projected
- Moody's Investors Service	Aa2	Aa1
- Fitch Ratings	AA	AA+
- Standard & Poor's	AA	AAA

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:

Jensen Finished Water Reservoir No. 2 Cover Replacement—This project replaces the floating cover and liner at the Jensen plant's Reservoir No. 2 and improves the existing inlet configuration for the reservoir. Preliminary design is 91 percent complete and is scheduled to be complete by December 2019.

Yorba Linda Hydroelectric Power Plant Completion Project—This project fabricates and installs an enclosure for rain protection for the plant generator. Final design is complete and Metropolitan's Board awarded a construction contract for the enclosure in July 2019. This project also upgrades various facility subsystems and procures spare parts for the power plant. Final design on these subsystems is 50 percent complete and is scheduled to be complete by December 2019.

Wadsworth Pumping Plant Control and Electrical Protection Upgrade—This project replaces the obsolete turbine/pumping unit controls and electrical protection systems for the Wadsworth Pumping Plant and pressure control structure. The control system upgrades for Turbine/Pump Units 6, 7, and 8 are complete. Overall, the project is 84 percent complete and is scheduled to be complete by February 2020.

Red Mountain Hydroelectric Plant—This project refurbishes and/or replaces the turbine's mechanical components. Construction is 10 percent complete and is scheduled to be complete by December 2019.

Perris Valley Pipeline Interstate 215 Crossing—This project installs 3,000 feet of 96-inch diameter welded steel pipe and includes tunneling beneath the Interstate 215 freeway and Van Buren Boulevard to tie together two existing sections of the Perris Valley Pipeline. Final design is 90 percent complete and is scheduled to be complete by December 2019.

Casa Loma Siphon Upgrades—This project replaces Casa Loma Siphon Barrel No. 1 at a fault crossing utilizing Earthquake Resistant Ductile Iron Pipe. Final design is 60 percent complete and is scheduled to be complete by January 2020.

San Gabriel Tower Seismic Retrofit—This project will rehabilitate and strengthen the San Gabriel Tower and its adjacent spillway and replace the slide gates and actuators inside the tower to restore isolation capability for the Upper Feeder. Preliminary design is five percent complete and is scheduled to be complete by June 2020.

Whitewater Erosion Protection Structure Rehabilitation—This project repairs the erosion protection structure that was damaged from the heavy storms in February 2019. Final design phase is complete and award of construction contract by Metropolitan's Board is scheduled for September 2019.

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. As part of this project, the Sepulveda WVF-1 interconnect structure will also have improvements made within its structure. Final design is 30 percent complete and is scheduled to be complete by August 2019.

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, Calabastas 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 90 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 10 percent complete and is scheduled to be complete by November 2020. Final design of Reach 3 is 74 percent complete and is scheduled to be complete by December 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 95 percent complete and the initial delivery of pipe for Reach 2 is scheduled to be complete by 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. The first 150 valves were received and inspected and are in protective storage. The remaining 66 valves will be delivered by September 2019.
- 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 25 percent complete, and the valves are scheduled to be delivered by June 2020.
- Sepulveda Feeder, Calabastas Feeder, Rialto Pipeline, and the Allen-McColloch Pipeline—These projects rehabilitate the four other priority PCCP lines. Preliminary design efforts for the four priority lines are being conducted simultaneously and are 35 percent complete and scheduled to be complete by mid-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 award of construction contract by Metropolitan's Board is scheduled for November 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 28 percent complete and is scheduled to be complete by November 2019.
- Intake Power Line and Communication Replacement—This project relocates a power transmission line that serves Intake Pumping Plant and several remote CRA facilities. Construction is 82 percent complete and is scheduled to be complete by September 2019.

ENGINEERING SERVICES

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

Colorado River Aqueduct Reliability Program continued...

- 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. Construction is three percent complete and is scheduled to be complete by July 2020.

Treatment Plant Reliability Program

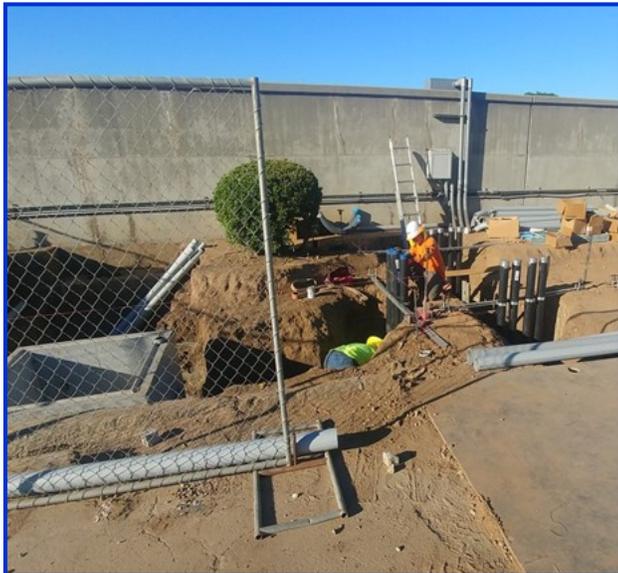
This program was initiated to maintain reliability and improve the operating efficiency of Metropolitan’s water treatment plants through specific improvement projects. Recent activities include the following:

Weymouth Plant

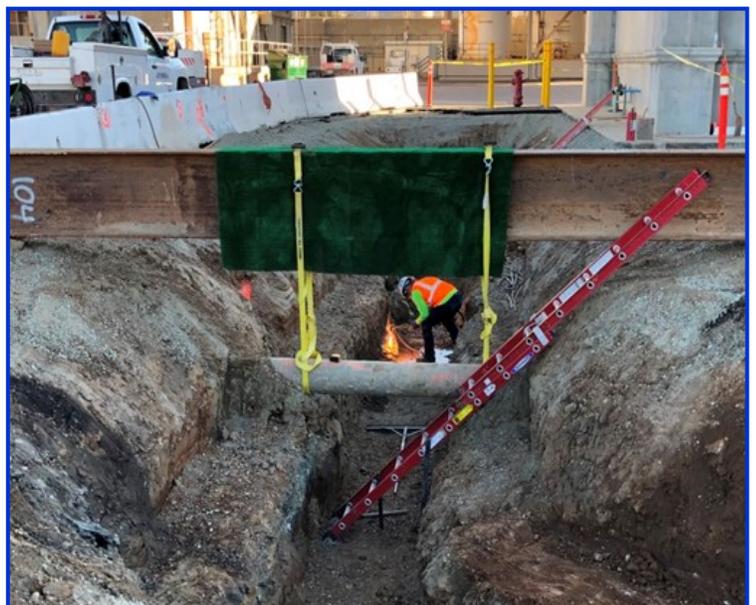
Weymouth West Washwater Tank Seismic Upgrades—This project performs seismic strengthening and refurbishment of the west washwater tank at the Weymouth plant. Construction is 87 percent complete and is scheduled to be complete by August 2019.

Weymouth Domestic Water Upgrade—This project upgrades the aging domestic and firewater loop at the Weymouth plant. Construction is 40 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 18 percent complete and is scheduled to be complete by December 2020. *(see photo below)*



Weymouth Domestic Water Upgrade - Install electrical ductbanks for MCC-16P1-2



Weymouth Chlorination System Upgrades - Demolition of existing vault

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:

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 303percent complete and is scheduled to be complete by December 2020.
- 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 35 percent complete and is scheduled to be complete by January 2021.

Jensen Plant

- Jensen Electrical Upgrades, Stage 2—his 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. These include the washwater pumps, service water pumps, washwater return pumps, filters, thickeners, sludge pumps, and ammonia facilities. In July 2019, Metropolitan's Board awarded the construction contract for the Stage 2 electrical upgrades at the Jensen plant.
- Jensen Module 2 and 3 Flocculator Rehabilitation—This project rehabilitates the Modules 2 and 3 flocculators at the Joseph plant. Construction is two percent complete and is scheduled to be complete in February 2021.

GM STRATEGIC PRIORITY: Maximize Local Resources

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

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

Regional Recycled Water Program—This program includes the design and construction of an Advanced Water Treatment Demonstration Plant, which represents the initial step in development of a potential regional recycled water system for recharge of groundwater basins within Southern California.

Advanced Water Treatment Demonstration Plant—This project constructs a 0.5 mgd demonstration facility on the grounds of the Los Angeles County Sanitation District's Joint Water Pollution Control Plant in Carson. Construction is complete and the contract-required testing and commissioning of the facility is underway. It is anticipated that the contractor will complete all of its required activities and turn over the facility to Metropolitan in September 2019.

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.

Southwestern Riverside County Multi-Species Reserve

Three acres of Tamarisk were treated and 500 native trees and shrubs were installed at Tualota Creek.

647 visitors toured the Alamos Schoolhouse Nature Center and 147 individuals participated in Campfire/Special Speaker programs March through June.

Orange County Central and Coastal NCCP/HCP Nature Reserve

Attended a Natural Communities Coalition Land Management Committee meeting to collaborate with other land managers and share information on topics including invasive species, recreation management, habitat restoration, and fuel management.

Lake Mathews Multiple Species Reserve

- Results of a culvert/wildlife crossing, wildlife/vehicle interaction survey, bat survey, and predator survey using motion activated cameras were reported. *(see photos below)*
- Reserve Management Committee approved extending the Reserve Manager contract (Riverside County Habitat Conservation Agency) for four years.
- The RCHCA continued its use of drones to identify the location and extent of Stinknet (*Oncosiphon piluliferum*), a highly invasive non-native plant, in the reserve.



Motion activated cameras used to photograph Kangaroo rat in culvert during wildlife survey

Bobcat photographed during predator survey



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

Provided content for Metropolitan's *Balancing Investments in Water Reliability and the Environment*, *Wildflowers of DVL*, and the *Leaders in Environmental Stewardship* brochures.

Objective: Identify new and continuing conservation efforts for the purpose of reducing future Greenhouse Gas (GHG) emissions, develop a Climate Action Plan (CAP) and prepare CEQA documentation to be used to offset GHG emissions from future construction projects, as well as highlight Metropolitan's efforts to reduce GHG emissions and help California meet its GHG reduction goals.

Continued efforts to identify GHG reduction strategies to be used in the CAP.

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

- Completed technical studies and CEQA addendum for construction of the Perris Valley Pipeline Project, and submitted copies to Caltrans to support an encroachment permit application.
- Provided CEQA review and determined that the following project is exempt: Gene Fencing Repair and Replacement Project.

Regulatory Permitting Support and Compliance

- Received approval from California State Parks for a pilot study to assess the feasibility of drone-based LiDAR monitoring to document Aliso Creek sedimentation within Chino Hills State Park in support of the Orange County Right-of-Way and Infrastructure Protection Program.
- Submitted the final construction close-out report to the US Army Corps of Engineers to satisfy permitting requirements for the CRA Urgent Repairs Project.
- Submitted Amendment request for Streambed Alteration Agreement to California Department of Fish and Wildlife for the Whitewater Erosion Repair project.
- Continued pre-application consultation with Fish and Wildlife for the long-term routine maintenance Streambed Alteration Agreement notifications for dewatering activities across Metropolitan's service area.

ENVIRONMENTAL PLANNING SECTION

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 University of California, Los Angeles.

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 21 WSO projects, 7 Real Property actions, and 20 board letters.

Engineering Services Support

- Performed biological surveys and provided clearance for tree trimming activities and geotechnical studies on the Basin 8 Slope Remediation project.
- Reviewed submittals and attended site visits with City of Carson regarding tree removal.
- Continued noise monitoring during saw-cutting activities for the Headquarters Retrofit Project.
- Provided environmental clearances for CRA 6.9kV Cable Replacement project.

Water System Operations Support

- Provided nesting bird survey and environmental support for repairs to an exposed portion of the Lower Feeder within Chino Hills State Park and for power poles access and road maintenance at Diemer.
- Provided environmental clearance for V-dike maintenance from Hinds Pump Plant to Eagle Tunnel Outlet and road grading activities from Hinds Pump Plant to Dillon Road.
- Performed site visits and biological surveys to determine appropriate CEQA determination and potential regulatory permit requirements for Rialto Feeder Station 2635+00 Road Restoration.

Construction Monitoring

Continued construction mitigation monitoring for the following projects: Palos Verdes Reservoir Upgrades, PCCP Second Lower Feeder Reach 4, Orange County Conveyance and Distribution Team Maintenance Building, Weymouth Plant West Wash Water Tank Seismic Upgrades, Weymouth Plant Domestic Water System Improvements, Weymouth Plant Chlorine System Upgrades, Orange County Feeder Relining Reach 2, and Powerline Replacement at Gene and Intake.

Real Property Support

- Completed environmental review for four leases (no exemptions filed), prepared Board letter language for 2 leases, and began environmental review on 4 additional leases.
- Reviewed and provided input on proposed lease extensions to Riverside County Parks and Open Space District for the Lake Skinner Recreation Area and to Basecamp for their lease of the DVL East Marina.

External Project Review

Reviewed 18 CEQA notices for external projects and prepared comment letters for those that may impact Metropolitan facilities and/or operations.

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.

- Directors Dick, Lefevre, Peterson, and Treviño attended and Metropolitan sponsored the Urban Water Institute conference. General Manager Kightlinger and Special Projects Manager Westford participated on a panel to discuss Mexico Treaty 1944 and highlighted the success of Minutes 319 and 323. Colorado River Resources Manager Hasencamp provided updates on the Colorado River and Drought Contingency Plan. (August 14)
- Chairwoman Gray and General Manager Kightlinger were invited by Los Angeles Mayor Garcetti to meet with California Secretary for Natural Resources Crowfoot, California Environmental Protection Agency Secretary Blumenfeld and other Southern California leaders for a roundtable discussion on water resilience and long-term strategies. The input will help inform the state's work to develop a comprehensive strategy to build a climate-resilient water system as outlined in Governor Newsom's executive order calling for a Water Resilience Portfolio for California. (August 16)
- Chairwoman Gray and Director Ramos met with a delegation of women entrepreneurs from the Middle East and Northern Africa who are part of a U.S. State Department International Visitor Leadership Program to help support business development and address societal barriers facing female entrepreneurs and leaders. (August 21)

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

Engage the public, labor, business community, agriculture, government leaders, non-governmental organizations and other stakeholders in California's water issues, communicating Metropolitan's interests and Board-adopted policies through federal and state legislative strategies, multimedia and multi-cultural communications, and educational and other outreach programs. Inform the public about Metropolitan projects, facilities, operations and initiatives to gather input and support, foster competitive and diverse business opportunities, and facilitate innovation and technology sharing.

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

Federal

- S. 1790 (Inhofe, R-OK) directs Environmental Protection Agency to set a drinking water standard for Perfluorooctanoic acid (PFOA) and Perfluorooctane sulfonate (PFOS). Metropolitan continues to advocate for a science-based, data-driven, peer-reviewed process under the Safe Drinking Water Act, rather than setting standards under legislative deadlines. In addition, General Manager Kightlinger provided comments aimed at the conference committee to seek exemptions for water and wastewater agencies from clean-up obligations that should be paid by the responsible parties. The House and Senate have passed their own versions of the National Defense Authorization Act for FY 2020, which include provisions to address Per- and polyfluoroalkyl substances (PFAS) issues.
- Metropolitan has been working with a bipartisan leadership delegation in support of the Governor's Office of Emergency Services' appeal of the Federal Emergency Management Agency decision not to fully fund eligible repairs at Lake Oroville caused by storm events in 2017.

EXTERNAL AFFAIRS

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

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.

- Executive Legislative Representative Hiltcher participated in the National Water Resources Association Western Water seminar and participated in discussions regarding critical water issues facing the region, including climate change, the Colorado River, water quality, funding, and financing. (August 5-10)
- Special Projects Manager Westford attended a tour with U.S. International Boundary and Water Commission at their South Bay Wastewater Treatment Plant and had discussions with representatives of the United States and Mexico on the impacts of dry weather run off on the Tijuana River. (August 12)

State

PFAS Legislation

Beginning next year, public water systems will test drinking water supplies for per- and polyfluoroalkyl substances (PFAS) and report detection, if ordered by the State Water Board. Governor Newsom signed AB 756 by Assemblymember Garcia (D-Bell Gardens) that requires public water systems to follow notification requirements.

Environmental and Worker Safety Legislation

Senate Bill 1 by President pro Tem Atkins (D-San Diego) seeks to freeze California's environmental and worker safety laws to avoid changes in federal standards under the Trump Administration. Metropolitan is working with the administration and the bill's authors to address concerns the bill will restrict the ability of agencies to use science and other factors to improve water management.

Other Legislation

Metropolitan is seeking to extend the sunset date for the requirement and enforcement of quagga mussel control plans through SB 785, the Senate Natural Resources and Water Committee omnibus bill.

AB 1580 by Assemblymember Levine (D-Marin) was amended to require a state agency undertaking publicly funded infrastructure project of \$1 billion or more to form an oversight committee to develop a risk management plan. Metropolitan opposes the Bill as duplicative and unnecessary.

The legislature is considering two proposed bond measures. AB 352, by Assemblymember Garcia (D-Coachella), is a \$3.9 billion measure for wildfire prevention, safe drinking water, drought preparation, and flood control. SB 45, by Senator Allen (D-Santa Monica), is a \$4.3 billion bond for drought, parks, climate change response, and flood protection projects. If enacted, the measures would be on the 2020 statewide ballot.

Local

- Director Blois and Metropolitan staff attended the Ventura County Taxpayers Association's Annual State of the County meeting. Ventura County Executive Officer Powers was the featured keynote speaker. (August 1)
- Metropolitan staff attended the Ventura County Civic Alliance's Annual State of the Region event, which focused on the county's economic drivers, financial health, water issues, housing, homelessness, education, and transportation. (August 7)
- Director Ballin and Metropolitan staff attended the Valley Industry and Commerce Association's Annual Local Officeholders event, which featured 25 elected officials from the city and county of Los Angeles, and representatives from Los Angeles Unified School District and seven surrounding cities. (August 8)
- Chairwoman Gray, Directors De Jesus and Kurtz, and Assistant General Manager/Chief External Affairs Officer Zinke participated in the Greater West Covina Business Association's legislative breakfast. The event, which Metropolitan

EXTERNAL AFFAIRS

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

Objective: LEGISLATIVE SERVICES continued...

sponsored, provided an opportunity for more than 100 community leaders to hear from Congresswoman Napolitano (D-Covina) on key regional issues, including her support for federal legislation for the Water Recycling Investment and Improvement Act of 2019 and the Water Infrastructure Improvements for the Nation (WIIN) Act. (August 8)

- Director Heldman and Assistant General Manager Zinke attended, and Metropolitan sponsored, the Gateway Region Multi-Chamber State of the Nation event featuring Congresswoman Sanchez (D-Norwalk) who spoke on the need for federal financial support for transportation, water, and other job-creating infrastructure projects. More than 300 community leaders attended the event. (August 8)
- Directors Hall and Ortega attended the San Bernardino County Water Conference, which was attended by more than 400 community and water leaders. Metropolitan staff participated on panel discussions and hosted an exhibit booth to provide information on current water issues and conservation programs. (August 9)
- Metropolitan staff attended the Central City Association's Elected Officials reception, which honored members of the Los Angeles City Council, Los Angeles County Board of Supervisors, California State Assembly, and U.S. Congress. (August 14)
- Metropolitan staffed an exhibit booth at the Women in Green Forum to provide participants with information about water supply initiatives, rebate programs, and sustainable landscaping tips. (August 15)
- Metropolitan sponsored the Los Angeles County Business Federation's (BizFed) annual Freshman Policymaker Reception, recognizing newly elected policymakers. Chairwoman Gray and General Manager Kightlinger served on the honorary host committee for the event. (August 22)
- Directors Ballin and Peterson and Metropolitan staff attended the Valley Industry and Commerce Association's Annual Local Congressional Officeholders Lunch, which featured Representatives Gomez (D-Los Angeles), Hill (D-Agua Dulce), and Sherman (D-Sherman Oaks). (August 23)
- Directors Faessel and Ortega attended and Metropolitan sponsored the Orange County Taxpayers Association's Membership Luncheon. (August 23)
- Directors Barbre, Faessel, Ortega, and Solorio attended, and Metropolitan co-hosted with Municipal Water District of Orange County, Anaheim, and Santa Ana, a Community Leaders Briefing featuring Congressman Correa (D-Santa Ana). (August 29)
- General Manager Kightlinger was a keynote speaker and Metropolitan sponsored the Water Solutions conference hosted by Sustain Orange County. Congressman Rouda (D-Newport Beach) and State Water Board Chair Esquivel also spoke at the event, which focused on innovations to reliably manage, store, and deliver water in Southern California and the surrounding region. More than 200 participants attended the event. (August 29)

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

- Arranged in-person briefing by General Manager Kightlinger to 15 international science reporters visiting the United States as part of a State Department program, "Water: Creating a More Water Secure Future."
- Arranged interview between Engineering Services Manager Shamma and Engineer Chau and *Environmental Health News* reporter Madeleine Turner regarding the project to install earthquake resistant ductile iron pipe across the Casa Loma Fault.
- Arranged interview between Chief Operating Officer Upadhyay and *Municipal Water Leader* magazine editor Joshua Dill regarding the Regional Recycled Water Program.

EXTERNAL AFFAIRS

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

Media Interviews continued...

- Arranged separate interviews with General Manager Kightlinger and *Sacramento Bee* reporter Elizabeth Shwe, and with Executive Legislative Representative Cole and Deputy General Counsel Morris, regarding Metropolitan's position on Senate Bill 1, the California Environmental, Public Health, and Workers Defense Act of 2019.

Communication Activities

Metropolitan's water conservation advertising campaign continued its focus to market turf replacement rebates throughout the region. Digital display ads, radio, and television integrations continue to drive Southern Californians to bewaterwise.com to learn more about and apply for turf replacement rebates.

Press Releases/Statements

- Statement from General Manager Kightlinger regarding the Bureau of Reclamation's 24-month study on reservoir conditions in the Colorado River Basin.
- Press Release on new Metropolitan Director Tana McCoy, representing the city of Compton.

Social Media

- Promoted turf replacement posts on Facebook that received more than 10,000 clicks. *(see photos below)*
- Posted a Delta earthquake simulation video on Facebook, which received nearly 14,000 impressions and more than 4,000 views. On Twitter, the video received 8,000 impressions with more than 1,300 views.
- Boosted posts regarding the Orange County Feeder construction and text alerts. The post reached more than 21,000 people and received more than 1,400 engagements.
- In celebration of #WaterQualityMonth, developed posts about Metropolitan's commitment to delivering high quality, reliable drinking water, which received 5,000 impressions. *(see photo below)*



Some of the turf replacement posts used on Facebook to promote rebates



Panel of highly trained MWD staff tasting and smelling water samples

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 provided a tour of F. E. Weymouth Treatment Plant and Water Quality Lab for the Los Angeles Trade Technical College (August 2), the Los Angeles Service Academy (August 8), and University of California Stem Students (August 21). Staff also coordinated with Sanitation Districts of Los Angeles County's staff to provide a tour of the Regional Recycled Water Advanced Purification Center for Los Angeles Department of Water and Power and federal legislative staff. (August 6)

Construction Project Updates

- City of Carson to discuss traffic control for the Second Lower Feeder PCCP Reach 2 Project, which begins in September 2019. (August 12)
- City of Burbank to discuss permits, traffic control, and noise variance for the East Valley Feeder Shutdown in November 2019. (August 16)
- City of Costa Mesa to discuss the traffic control for the upcoming Orange County Feeder Relining Project - Reach 3 & 4. (August 20)
- Provided information to 300 residents and businesses in Long Beach, Los Alamitos, Cypress, and Anaheim for the Second Lower Feeder shutdown to return the pipeline back into service following the completion of the relining project. (August 19)
- Conducted outreach activities to 7,000 residents and businesses in Carson and Los Angeles for the Second Lower Feeder PCCP Relining Project Reach 2 which begins in September 2019. (August 22)

Member Agency Support

Metropolitan met with the member agency managers to discuss water supply conditions and operations, California's water resilience portfolio, system reliability, and a pilot program for direct use of stormwater. (August 23)

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.

Community Partnering Program

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

- California Latino Leadership Institute's Water Education and Conservation Briefing (August 7)
- Urban Water Institute Annual Conference (August 14)
- California Data Collaborative Annual California Water Data Summit (August 22-23)
- Orange County Taxpayers Association's Membership Meeting (August 23)

Diamond Valley Lake Education Program

Metropolitan staff hosted 685 visitors at the DVL Visitor Center and guided nearly 70 visitors to the Clayton Record viewpoint. The viewpoint was closed for a portion of August due to road and parking lot repairs.

EXTERNAL AFFAIRS

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

Objective: EDUCATION AND COMMUNITY RELATIONS - continued...

General Education

Supported education events for:

- Pacoima Beautiful Agua
- Caltech Weymouth Tour
- MWDOC Joint Board Workshop
- Bixby Marshland Open House
- MWDOC WACO Education Presentation
- California Children's Service Day at the Park
- 6th BOSS Camp
- DWR Water Educator's meeting
- STEM Public Utilities Learning Labs
- Generation Earth at the Hyperion Environmental Learning Center
- LADWP Times in Education program.

Education Unit staff directly interacted with 700 students and teachers. *(see photo right)*

Metropolitan's 2019 Student Art Exhibit made its final stops at Las Virgenes MWD and Camrosa Water District.

Education staff kicking off Central Basin MWD's local water education tour with an overview of California's water supply



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

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

- Riverside Southwest Veteran Business Resource Center's Veterans Training Series "Do you Have Skin in the Game," with a panel discussion on certification, procurement, and working with government agencies. (August 21)
- Regional Hispanic Chamber of Commerce Business Development Conference that was attended by 250 participants. (August 23)
- Asian Business Association Orange County's BIZCON Business Convention. Business Outreach participated on the Diversity and Procurement Panel strategic matchmaking sessions with 300 businesses. (August 29)

Business Outreach, in partnership with Human Resources, hosted California Labor Solutions "Organization and Development" vendor introduction meeting. The organization specializes in consultant services in the areas of HR consulting and regulatory compliance, training and professional development, and quality management. (August 8)

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.

Metropolitan's approach to Succession Planning enables workgroups to tailor their succession initiatives to the needs of their organization. This month, Engineering Services illustrated this flexibility with its presentation at the Organizational, Personnel and Technology Committee on its "Career Launch" program. The process uses a variety of methods: group and individual-team orientations; discussion about the history of water; various work-related checklists; six-month job rotations through different parts of Engineering Services; and mentoring to ensure new engineers can rapidly learn the complexities of the work necessary to effectively perform their roles.

This month's Water System Operations Management Academy session held at the Jensen plant covered Employee Relations/Equal Employment Opportunities, creating goals that are Specific, Measurable, Attainable, Relevant and Time-Bound (SMART), a coaching model based on the GROW (Goals, Realities, Options, Way Forward) model for Performance Management, a Water Quality Overview, and a tour of the plant.

Staff also debriefed CPI260 self-assessment instruments for Management Academy participants to help them better understand their personal strengths and weaknesses to help them develop their own individual career development plans.

Classes delivered this month:

- *Conflict to Collaboration* class held at Weymouth Plant, Water Quality Library
- Seven sessions of the *Personal Security Awareness (PSAT)* one-hour modules were delivered at various Metropolitan locations
- *Introduction to SharePoint and Microsoft Project Level 1*
- *Preparing for Job Interviews*

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

Recruitment filled 37 positions for the month of August, which included 9 job-bid promotions and 28 external hires. HR received 34 new staffing requisitions resulting in 121 positions currently in recruitment.

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

Human Resources continued partnering with staff at all of Metropolitan's facilities to organize Employee Appreciation Day events in fall 2019. The purpose of Employee Appreciation Day is to recognize the contributions of employees and their commitment to Metropolitan and support an opportunity for employees to build camaraderie.

HUMAN RESOURCES

HR PRIORITY: Ensure Effective People Management

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

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

Staff continues to coach eight managers and also administers and monitors seven external coaches supporting various managers in their development.

The HR Manager briefed staff about the new HR Strategic Partner job description and selection process, which will be implemented/recruited this month.

HR PRIORITY: Strengthen Partnerships with HR Customers

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

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

The Human Resources Group Manager presented the Board's feedback for the FY 2018/19 Department Head Evaluation Process of the General Manager, General Counsel, and General Auditor in closed session at the August Board meeting. This year, 91 percent of eligible Board Members participated. Staff, in open session, also presented the findings from this year's salary comparisons surveys for each Department Head in order to assist the Board in their determination of Department Head salaries for the current fiscal year.

HR staff participated in a panel discussion on Capturing the Next Generation of Water and Builder Professionals at the San Bernardino County Water Conference. Metropolitan highlighted its approaches to preparing future generation of water workers through its Apprenticeship Program and Management Academies.

HR PRIORITY: Provide Excellent Human Resources Services

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

Objective: Continue to upgrade HR's technological capabilities and continue to seek out improved technologies to better serve HR's customers.

This month, HR launched the new MyLearning system, a modern learning management system that streamlines and improves course registration, approval and scheduling processes, provides employees and managers user-friendly tools for managing learning, and simplifies online and remote access to training content.

Presented HR Overview/Recommendation to the Delta Conveyance Authority Board of Directors focused on providing options for staffing the project with an optimized combination of employees and consultants.

HUMAN RESOURCES

HR PRIORITY: Provide Excellent Human Resources Services continued...

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

- ViaTron, a digitalization vendor, has informed HR Benefits that all files for Benefits and Deferred Compensation are now digitized and readily available for viewing. This is part of an ongoing effort to digitize records and reduce paper records.
- HR Benefits conducted comprehensive Stepping into Retirement workshop on the various topics employees need to address prior to retirement. The session was held at the Weymouth plant with 40 attendees.

CORE BUSINESS: Comply with Employment Laws and Regulations

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

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

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

- Submitted 8 new claims to Metropolitan's Workers' Compensation Claim Administrator
- Closed 15 Workers' Compensation Claim Files
- Currently 3 employees remain off work due to industrial injury or illness
- Arranged 10 medical evaluations (DMV, pre-employment, medical surveillance)
- Addressed 3 Accommodation issues
- Coordinated 2 Random Drug Tests (Diemer and Skinner)
- Coordinated 6 Medvan visits for Lake Mathews, Skinner, Mills, and La Verne (Respirator Exams, Hearing Tests, and Commercial and Vanpool Driver exams)

CORE BUSINESS: Prepare to Meet Challenges of Future Workforce Changes

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

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

The Human Resources Group Manager and staff participated in a full-day Student Leadership Workshop and Career Fair at California Polytechnic University, Pomona on August 17. Approximately 120 student leaders from 10 local universities attended various learning sessions conducted by Metropolitan staff. A Meet and Greet outreach session for employers was focused on encouraging future college graduates to consider employment at Metropolitan. HR partnered with the Asian American Employees Organization to host this event.



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.

- Continued to execute the Cybersecurity II Project to enhance Metropolitan's security posture by deploying new and emerging technologies as part of the Information Technology Cybersecurity Roadmap.
- Conducted patching of software and systems to mitigate ongoing and evolving risks to Metropolitan's business networks and applications. Software patches are provided by vendors when vulnerabilities are identified. Before patches can be deployed to Metropolitan's computing environment, IT staff must conduct testing to ensure business-critical applications are not adversely affected.
- Collaborated with key stakeholders and business units on deploying new technology and upgrades to Metropolitan's business and Supervisory Control and Data Acquisition (SCADA) networks to reduce risks and potential vulnerabilities.
- Held workshops on secure coding (application security) and developed Securing Web Application Technologies (SWAT) checklist to share best practices.

Objective: Provide IT services in support of the Headquarters Improvement Program

Continued to collaborate with the Engineering Services Group 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.
 - In the prior period, IT staff completed upgrades to the wireless network infrastructure on the first and second floor, including the boardroom and committee rooms, by installing new Wireless Access Points.
(see photos below)
 - Current efforts include network configuration adjustments to fine-tune the system to provide a robust wireless network and optimization of Wi-Fi coverage, capacity, and performance.
- As part of wireless infrastructure upgrade, the IT Networking Team submitted a proof-of-concept ceiling mount for use on the dropdown ceilings to Facilities that was approved and will allow the continued installation of Wireless Access Points at selected locations in the Headquarters Building.



Mounting System



Wireless Access Point Mounting

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

Maximo Upgrade Project—The project team continued to work in collaboration with stakeholders on the upgrade of Metropolitan’s enterprise-wide maintenance management software application from version 6.2 to 7.6. Maximo is used for planning, scheduling, and reporting of required maintenance of equipment deployed throughout the treatment plants and the conveyance and distribution system.

- The key elements of this project include the upgrade to the transportation module and converting custom interfaces to the standard Maximo Integration Framework.
- Previously, the team made the decision to upgrade to version 7.6.1 by performing an analysis of the impact on the project and completing database integrity checks. During the period, the project team completed the installation and upgrade of the development server environment. Next steps include designing the interfaces that will integrate with other systems (e.g., WorkTech).

Service Manager System (Service Desk Application)—As part of evaluating technology solutions for a self-service ticketing system to centralize and modernize service

management within the Information Technology Group, staff issued a Request for Information in July. The issuance of the RFI is part of the process in assessing solution alternatives that provide full Information Technology Service Management (ITSM) functionality.

- In August, the RFI posting period closed as staff begins the evaluation phase to define requirements for a new ITSM system to support service tickets generated by business users across the enterprise.

Real Property Group Business System Replacement—The scope of the project is to upgrade the Real Property Group Business System software which 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 period, the project team completed the process of reviewing the Request for Proposal (RFP). Subsequently the RFP has been routed for approval and posted as part of the competitive bidding process.

Asset Monitoring and Management System Project—The scope of the project is to implement an Asset Management System to leverage data already maintained by Metropolitan into a common framework, which will serve as a foundation for future infrastructure reliability projects and assessment across Metropolitan.

- During the period, the project team completed the evaluation process to prequalify firms from the Statements of Qualifications received during the last period. Staff submitted the Recommendation to Pre-qualify memorandum and is continuing to have meetings with internal stakeholders in preparation of completing the initial project scope and project plan.

Digital Asset Optimization—This project will remove redundant, obsolete, and trivial files from the network shared drives in preparation for the Enterprise Content Management implementation. IT staff is working in collaboration with key stakeholders on file share cleanup by identifying and reducing duplicate and/or obsolete data. This is important as 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 project team continued to hold meetings with Water System Operations to discuss the file cleanup process. In addition, meetings were held with Engineering Services to refine the Records Retention Schedule and in preparation of the migration tentatively scheduled during the upcoming month.

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

Enterprise GIS Project—This project upgrades 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 the completed installation and configuration of the additional supporting infrastructure. During the same time, an upgrade to the latest version 10.7.1 was performed and successfully completed. The infrastructure, comprised of multiple physical and virtual servers, provides advanced GIS functionality behind the scenes and is currently underway.

(see photo right)



GIS Web Portal

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

Supervisory Control and Data Acquisition (SCADA) Network Fiber Optic Switch Replacement Project—This project is to replace end-of-life switches critical to Metropolitan’s control system. IT staff continued to work with stakeholders on this project to replace older equipment with current technology, providing greater infrastructure reliability and ensuring vendor support and maintenance.

- To date, the project completed installation of five field sites, with two remaining sites scheduled to be complete during the next quarter.

Automated Meter Reading (AMR) Upgrade—The AMR System is a critical component for transmitting flow information from meters for billing of member agency water deliveries and analysis of meter instrumentation by staff. This project will address equipment obsolescence as the communications equipment used in the system is approaching end-of-life.

- During the period, the project team continued to evaluate alternatives and potential migration paths as part of the requirements to develop a preliminary project plan. Procurement activities are underway to obtain the necessary equipment to deploy and test potential technology solutions and feasibility of design options.

System-wide Control System Upgrade—This project is comprised of a multi-phased approach to 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 recently published a Request for Qualification to prequalify control systems.

SCADA Network Intrusion Detection System (IDS) Project—This project is to install an IDS to monitor activity and provide alerts for suspicious activity within the SCADA network.

- Currently the project is in the final installation phase as IT continued to work in collaboration with WSO on the project.

INFORMATION TECHNOLOGY

CORE BUSINESS: Information Technology continued...

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

IT Disaster Recovery Project—This project scope is to upgrade 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 continued to work with key stakeholders to test software applications to ensure they meet Metropolitan's DR criteria. Current efforts include preparations for an October practice drill that will validate the new enhanced disaster recovery and response capabilities. Final user acceptance of Phase I, II, and III IT-DR application testing is scheduled for November.

Ongoing IT Emergency Preparedness—Continued ongoing planning and training for the IT-Incident Command Post (IT-ICP). Preparations are underway to conduct a September workshop to update IT responders on processes and procedures. IT emergency preparedness supports Metropolitan's ability to meet recovery time and recovery point objectives in the event of a disaster.

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

Continued to conduct IT Executive Council meetings with key stakeholders. As an advisory council to the General Manager, the IT Executive Council ensures alignment of IT priorities with business goals, as well as provides review and approval of IT priorities, strategic plans, projects, and policy.

As part of the IT Roadmap, staff continued work at CoreSite (off-site data center) to improve network reliability, capability, and redundancy as part of preparing for Metropolitan's migration to cloud processing. Commissioning of the CoreSite network is underway as staff continues the process of redirecting and testing network traffic from Headquarters to CoreSite.

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

Maximo Mobile Computing Project—This project scope is to replace 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.

- During the pilot phase, a limited number of tablets will be deployed to field staff to evaluate user requirements, performance, and functionality. The project team is continuing to work with WSO stakeholders by finalizing account roles and processes.
- The project team received requirements for the new mobile pilot devices and the devices have been procured. Upon receipt, provisioning of the devices will occur and, along with training, will be provided to WSO to assist with device set up, account provisioning, and end user training during the deployment phase in the upcoming month.

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 (WINS) and leverages cloud technology enabling member agencies to submit request changes.
- Staff is continuing to work on the design phase of the project for Water Ordering and Energy Scheduling System. With the initial testing substantially completed, planning is underway to begin the migration into a stage environment to conduct a flow scheduler pilot with a member agency.

INFORMATION TECHNOLOGY

CORE BUSINESS: Information Technology continued...

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

Learning Management System (LMS) Replacement—This project scope is to replace the end-of-life PeopleSoft Enterprise Learning Management System (MyLearning). This system is used to manage Metropolitan’s training curriculum, course approvals, enrollment and notifications. It serves as a training delivery system in addition to tracking mandatory training required by Water System Operations.

- During this period, IT completed work with key stakeholders on training requirements and other preparations to deploy the new cloud-based Learning Management System (SABA) which was completed on August 19. The new SABA cloud-based learning software provides streamlined workflows, features, and new reporting capabilities, to help track and provide new training options to employees. *(see photo below)*

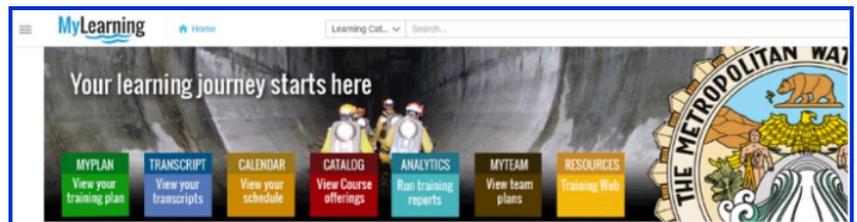
Continued to Provide Innovative Services—IT staff continued to partner with Metropolitan business units to leverage technology to support business needs.

- Conducted ongoing planning and Unmanned Aerial Vehicle (UAV) drone missions to capture aerial video, photos, and data to support Metropolitan’s business units. Recent activities include conducting test flights with new Geodetics LiDAR sensing equipment.
- Performed UAV mission for Jensen Fresh Water Reservoir Roof Survey (photogrammetry)
- Captured 360-degree aerial video of Second Lower Feeder

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

- Continued to work with workgroups to identify business critical applications and acquired resources to assist with testing of the Metropolitan applications. Working in parallel with the completion of the new standard operating system, which was approved by the Cybersecurity Team in the previous period, the first shipment of test machines have been delivered to the deployment support vendor who will be installing the new operating system on each of the computers and will deliver them in the upcoming month to Metropolitan.

MyLearning Website



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 Metropolitan-sponsored courses: *OneDrive Information Session, High-Rise Safety Training, Personal Security Awareness, training and MS Project Level 1 Workshop.*
- Staff attended CoStar’s Q2 State of the Market. Staff learned about the current conditions of the Los Angeles market and networked with other real estate professionals.
- Staff completed the following Certified Commercial Investment Member Institute external training: *Real Estate Development: Disposition, and User Decision Analysis for Commercial Investment Real Estate.*

REAL PROPERTY

GM STRATEGIC PRIORITY: Enhance Infrastructure Safety, Security and Resiliency

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

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

Two temporary entry permits for access to perform geotechnical soil sampling were acquired, one from a private entity and the other from Southern California Edison. These permits will allow access to further study and evaluate the proposed pipeline realignment for Reach 9 of the Second Lower Feeder Prestressed Concrete Cylinder Pipeline Rehabilitation Project. The existing pipeline is located parallel to the Inglewood/Newport Fault crossing. Geotechnical study of soil evaluation is critical in determining a new alignment to minimize seismic risks.

Two right-of-entry agreements were acquired to allow access for soil testing, one from the Riverside County Transportation Commission and a second from the March Joint Powers Authority. In May of this year, an F16 fighter jet crashed into a warehouse located north of the Perris Valley Pipeline Project (Pipeline). This crash raised concerns that jet fuel may have leaked into the detention basin between the warehouse and the Pipeline. The soil tests within each entity's property will determine if there is any impact on the Pipeline or the need for environmental cleanup.

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.

The lease for the Western Science Center at Diamond Valley Lake has been extended for an additional one-year period from July 1, 2019, to June 30, 2020, pursuant to the option to renew provisions of the lease with a yearly rent of \$123,800.

A one-day entry permit was granted to Toyo Tires to film a commercial along the DVL entrance road and marina during non-business hours. Real Property staff was present during filming. Processing fee of \$15,025 was received for the film shoot (*see photo right*)



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.

Wayfinding signs were installed around the DVL area to assist the public in finding key attractions such as the marina, the Clayton A. Record Jr. Viewpoint, and the trailheads. These signs complement the area's landscape while providing clear directions. (*see photo left*)

REAL PROPERTY

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

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

Residential Village site assessments were performed on August 6-8. Through the assessments, the consultants were able to gather information while establishing the overall village masterplan. Areas of focus during this phase are: common use space, recreation, site landscaping, fencing, lighting, pedestrian walkways, and vehicular roads.

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 Water Surplus and Drought Management Plan.

Cyclic Cost-Offset Program—The General Manager has determined that water supply conditions strongly indicate that Metropolitan may not be able to capture and store all available supplies in calendar year 2019. Accordingly, the General Manager initiated the Cyclic Cost-Offset Program beginning August 1, 2019. Metropolitan staff is working with 14 member agencies in establishing cost-offset agreements.

Objective: Implement Conservation Program.

Landscape Workshops—Model Water Efficient Landscape workshops were held in Downey and Santa Monica in partnership with California Landscape Contractors Association to educate landscape contractors and local agency staff about the model water efficient landscape ordinance.

Water Management Practices Presentation—On August 8, staff presented an overview of Metropolitan and water management practices to a delegation of legislators from the state of Nuevo Leon in Mexico. The meeting was hosted by the California Air Resources Board. The delegation was interested in hearing about how Metropolitan manages water resources, promotes efficiency, and works with other agencies. The request for a Metropolitan speaker came via Hector de la Torre, former Assemblymember and current member of the CARB Board. Several CARB staff were also in attendance.

WATER RESOURCE MANAGEMENT

GM STRATEGIC PRIORITY: Ensure Imported Supply Reliability

Southern California's foundational water supply remains the Colorado River and the State Water Project and their ongoing reliability is critical for the region. 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 a cost-effective and reliable State Water Project.

Palo Verde Irrigation District/MWD Land Fallowing Program— Metropolitan issued \$6.44 million to landowners and farmers participating in the PVID/MWD Land Fallowing program for the fallowing year starting August 1, 2019. The land fallowing is expected to conserve approximately 42,000 acre-feet.

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

24-Month Study—A recent U.S. Bureau of Reclamation study established Lake Mead operations for 2020. Based on the results of this study, Lake Mead is projected to end Calendar Year 2019 at an elevation of 1,089 feet. At this elevation, under the Drought Contingency Plan signed in May 2019, Arizona and Nevada will be making Lower Basin DCP contributions in 2020. Mexico will also be making contributions to Lake Mead under a separate agreement. This will be the first time that Lower Basin water users make required contributions to Lake Mead.

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 Meeting—Metropolitan staff developed and shared a recycled water legislative and regulatory update at the August 13 Los Angeles Chapter WaterReuse meeting held at the Hyperion Water Reclamation Plant. Engineering Team Manager Gloria Lai-Bluml provided a presentation on Initial Steps for Metropolitan's Regional Recycled Water Program.

Objective: Implement Local Resources Program.

Local Resources Program Agreement—Metropolitan and Central Basin MWD entered into an LRP agreement for the CBMWD Recycled Water Expansion Phase I Project, which will deliver an additional 500 acre-feet per year for irrigation and industrial purposes. Staff is assisting City of Santa Monica with preparation of a LRP application for their proposed recycled water project.

Dominguez Technology Center—Metropolitan staff participated in the Dominguez Technology Center ribbon cutting ceremony in the City of Carson with West Basin Municipal Water District Officials. The project participated in the On-site Retrofit Program (OSRP) and converted their potable water irrigation system to recycled water. Under the OSRP, the site received funding of \$128,768 for an estimated water savings of 132 acre-feet per year.

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 181,000 acre-feet of water to member agencies in August. August deliveries averaged approximately 5,800 AF, per day, an increase of 800 AF per day from July deliveries. Treated water deliveries for August totaled 87,000 AF or 48 percent of total deliveries for the month. This was an increase of about 11,000 AF from July treated water deliveries. The Colorado River Aqueduct transitioned from a 4-pump to a 5-pump flow, or 2,280 AF per day, on August 12. A total of 68,000 AF of Colorado River water was pumped in August. State Water Project imports averaged 4,400 AF per day, totaling 136,000 AF for the month. The target State Water Project blend was 75 percent at the Weymouth, Diemer, and Skinner plants during the month of August.

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 July 2019.

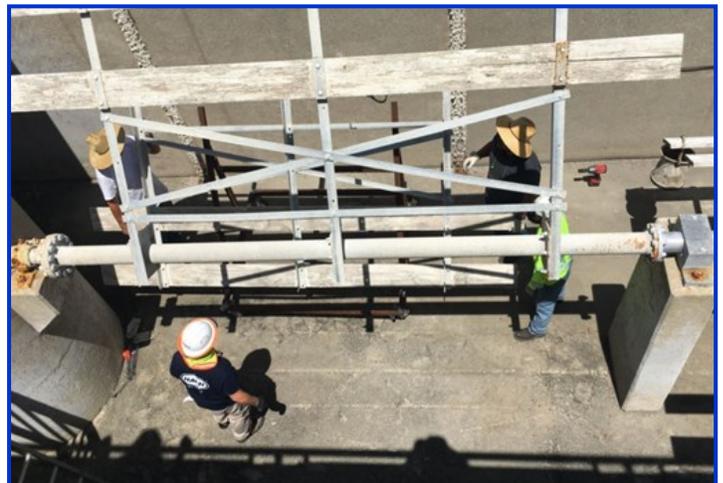
On August 22, staff participated in a constructability review for the Water Quality Laboratory seismic upgrade and building improvements project. This retrofit is necessary to bring the 35-year-old part of the building into compliance with current building codes. The discussion focused on construction phasing and sequencing, possible staff relocation, and plans for continued functional operation during the upgrade to ensure all water quality regulatory requirements and business needs are met.

Staff received the Orange County Public Works Encroachment/Flood Control Permit for all the planned 2019-2020 shutdown dewatering activities in Orange County. Under the permit requirements, staff must submit a five-day advance email notification to OC Public Works prior to each shutdown dewatering event with the maximum discharge quantity and duration for each dewatering location.

Objective: Actively Engage in Capital Project Planning and Execution.

Staff is in the process of rehabilitating sedimentation basin equipment as part of the Weymouth Basins 1 and 2 Flocculator Rehabilitation capital project. This work involves removing the flocculator paddles and drive shaft, refurbishing equipment and components, and realigning the drive shaft. This equipment is part of the plant's original construction from 1939, and rehabilitation is expected to be completed in October 2019. *(see photo right)*

Staff removing a section of a flocculator paddle wheel at the Weymouth plant



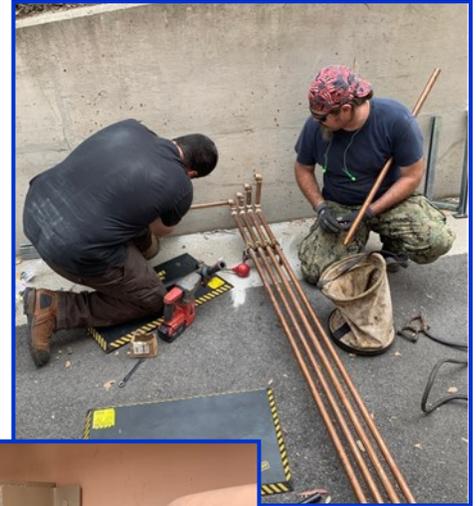
WATER SYSTEM OPERATIONS

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

Objective: Optimize Maintenance.

Staff modified the automated flow transfer system at the Sepulveda Hydroelectric Plant (HEP) to improve system response time. The modifications to the system will help reduce the system's reaction time and stabilize flows on the Sepulveda Feeder pipeline during these events. The modifications included connecting 1,400 feet of new brass piping and four new control valves to the control system, improving operation of the PCS sleeve valves when needed. Stabilizing the system will also expand the operating envelope for the HEP, which can produce three to eight megawatts of power. *(see photos right and below)*

(Right and below left) Staff installing piping for the new flow transfer system at the Sepulveda HEP and (below right) Installed piping for new flow transfer system



During routine maintenance, staff discovered a minor leak from a coupling adjacent to one of the 54-inch generator inlet butterfly valves at the Wadsworth pumping plant at Diamond Valley Lake. Upon disassembly, staff determined that a rubber seal had deteriorated. Staff replaced the seal and also coated various components to ensure continued reliable operation. *(see photos below)*

(left) 54-inch butterfly valve coupling and deteriorated rubber seal
(right) valve coupling after seal replacement and coating



WATER SYSTEM OPERATIONS

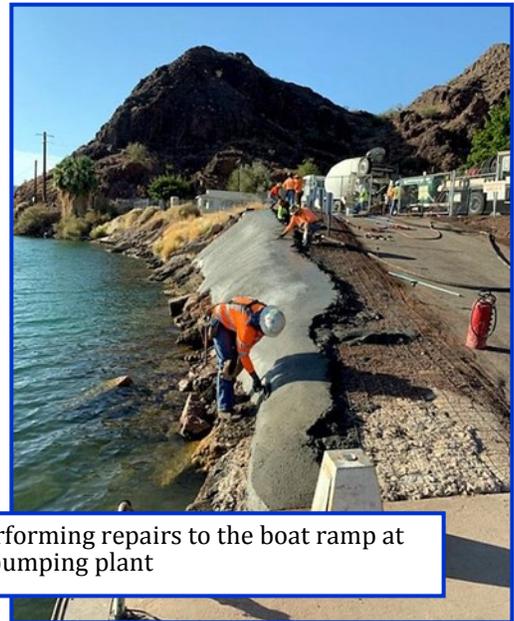
GM STRATEGIC PRIORITY: Enhance Infrastructure Safety, Security and Resiliency continued...

Objective: Optimize Maintenance. Continued....

- Staff installed a new check valve at the OC-70 pump station on the Allen-McColloch Pipeline. The check valve is used to ensure system reliability during sudden changes in flow or pressure. Once installed, the valve was recoated for corrosion protection.
- Using a new resurfacing technology, staff resurfaced a concrete slab at the Carbon Creek PCS. The technology utilizes a three-stage epoxy coating that is slip resistant, effectively seals cracks, resists weathering, and is expected to last 25 years. Resurfacing saved time and the cost of replacing the non-structural concrete.
- Staff performed repairs to the boat ramp at the Intake pumping plant located on Lake Havasu. The boat ramp is used by staff to perform inspections, maintenance, and repairs of the pumping plant, as well as to monitor water quality. *(see photo below right)*
- Staff completed the calibration of high-voltage protection relays for the nine pump motors at the Eagle Mountain pumping plant. The protective relays are designed to trip a circuit breaker when a fault is detected, ensuring safe and reliable operation of the Colorado River Aqueduct system. Each of the nine pumps at the Eagle Mountain pumping plant is driven by a 12,500-horsepower electric motor used to lift the water 438 feet. *(see photo below left)*



Staff calibrating high-voltage protection relays at Eagle Mountain pumping plant



Staff performing repairs to the boat ramp at Intake pumping plant

- At the Hinds pumping plant, staff replaced two tons of granular activated carbon (GAC) media in filters that are part of the pumping plant's domestic water treatment system. The water treatment system, comprised of microfiltration and GAC, provides water for staff residences as well as operational areas within the Hinds facility.
- Staff performed maintenance on the Allen-McCulloch Pipeline drop gate. The gate is located within the finished water reservoir at the Diemer plant. A hydraulic power unit that keeps the gate open recently failed, causing the gate to close on its own. Flows on the AMP line were temporarily reduced as a result of the gate closure, but normal flows were promptly restored. Staff completed refurbishment of the gate actuator to return the drop gate to service.
- Staff installed light fixtures for 24 of the 48 filters at the Weymouth plant this month. The lighting upgrade was initiated in 2018 as part of the Weymouth Filter Rehabilitation capital project. The project consisted of installing conduit, wire, and eight fixtures for each of the 48 filters to provide lighting to maintain safe working conditions. The LED lights are more efficient, use energy-saving time controls, and have a life expectancy of 30 years.

WATER SYSTEM OPERATIONS

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

Objective: Optimize Maintenance. Continued....

Staff conducted training at the Mills plant on a new fitting used for copper pipe repair. These new fittings have O-ring inserts at the ends and use compression to secure the fitting onto the pipe. This fitting allows for quicker installation and is an alternative to soldering a pipe connection. This repair method is beneficial for use at locations where fully isolating the water flow or using an open flame for soldering is not practical. *(see photo right)*

Staff conducting training on a new pipe fitting at the Mills plant



Significant precipitation and resulting snowmelt this year has resulted in decreased alkalinity levels in State Project Water. This was last experienced in 2017 following the record precipitation that year. Low alkalinity in source water can pose treatment challenges. In collaboration with the California Department of Water Resources, staff developed operational plans to utilize the Perris Pumpback facility to transition from Silverwood Lake (lower alkalinity) to a blend of Lake Perris (higher alkalinity) and Silverwood Lake as the Mills plant's primary source water. This operational strategy helped to increase the alkalinity levels in water entering the Mills plant and ensure treatment and water quality goals were met. *(see photos right)*

Staff adjusting valves for startup of the Perris Pumpback facility



Staff replaced a 15-year-old grader with a pre-owned 2017 all-wheel-drive motor grader. The grader will be used to maintain the powerline patrol roads that span from Gene pumping plant north to Hoover Dam in Nevada, and from Gene pumping plant west to Iron Mountain pumping plant. This is over 240 miles of roadways critical for maintenance access to Metropolitan's 230kV power line. The grader is equipped with an environmentally friendly engine meeting California Air Resources Board regulations. The purchase of a pre-owned unit also provided over \$160,000 in savings over purchasing a new unit. *(see photo left of the procured grader)*

WATER SYSTEM OPERATIONS

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

Objective: Optimize Maintenance. Continued....

- Staff performed annual infrared thermography testing on electrical equipment at the Diemer plant. This predictive maintenance technique helps to identify developing problems in electrical equipment by measuring differential temperatures. High temperatures are indicative of pending failures. Identifying these issues early allows staff the ability to take necessary actions to prevent equipment failures and ensure system reliability.
- Staff continued repairs of patrol roads as a result of rainstorms earlier this year that caused erosion damage. This month, staff repaired the Lower Feeder patrol road and covered an exposed pipe section of the Lower Feeder located northeast of Yorba Linda.
- On August 22, Metropolitan staff, along with the California Department of Water Resources, met for the annual shutdown planning meeting to prepare for Metropolitan's upcoming shutdown season. Attendees reviewed safety procedures, environmental planning and permitting processes, DWR outages affecting Metropolitan, dewatering and property access procedures, and pipeline return-to-service water quality requirements. The group also discussed the proposed shutdown schedule to ensure proper coordination between all affected parties.

Objective: Manage the Power System

On August 7, Metropolitan informed the U. S. Bureau of Reclamation of its approval of the federal fiscal year 2020 Parker Dam budget representing Metropolitan's 50 percent entitlement. Metropolitan's share of FY 2020 expenditures is \$4,240,500. With a carryover credit in the amount of \$541,573 from FY 2018 due to shifting project needs, Metropolitan's net expenditure for FY 2020 is \$3,698,927. This is a decrease of \$187,573 from the current FY 2019 budget.

On August 20, Metropolitan's Board authorized the General Manager to enter into a new, three-year power sale agreement with the California Department of Water Resources for deliveries from four hydroelectric power plants: Foothill Feeder, Lake Mathews, San Dimas, and Yorba Linda. The agreement includes the sale of capacity, energy, and environmental attributes from a total of 29 megawatts of generating capacity. The expected revenue from these plants over the three-year term of the agreement is expected to be about \$18.8 million.

Objective: Optimize Water Treatment and Distribution.

The State Water Project target blend for the Weymouth, Diemer, and Skinner plants was 75 percent in August 2019.

Flow-weighted running annual averages for total dissolved solids from July 2018 through June 2019 were 481, 470, and 479 mg/L for Weymouth, Diemer, and Skinner plants, respectively.

Staff installed new influent flow meters at the Skinner plant. The previous flow monitoring systems were greater than 15 years old and no longer supported by the manufacturer. Staff also upgraded the meter enclosures that will allow greater accessibility for maintenance and keep the electronics cooler. *(see photo right)*

Staff installing new flow meters at the Skinner plant

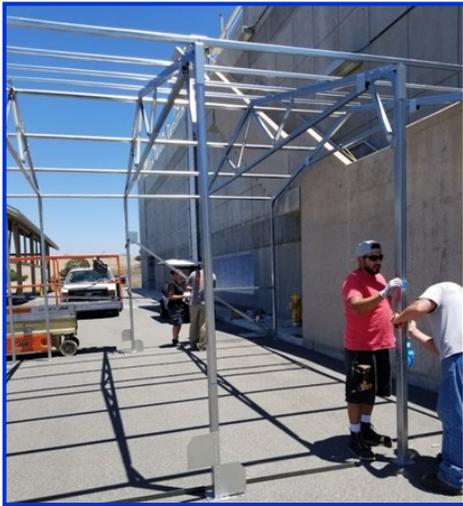


WATER SYSTEM OPERATIONS

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

Objective: Optimize Water Treatment and Distribution.

Staff installed a cover for a nitrogen compressor system at the Skinner plant. Nitrogen is supplied using air compressors and dryers to improve the efficiency of the ozone generation process. The air compressors and dryers had been exposed to sun and rain and required increased maintenance. The new cover will protect the nitrogen system from weather elements. *(see photos below)*



Staff assembling steel cover for the nitrogen compressor system at the Skinner plant and the finished product

- Staff performed annual maintenance on the ozone generator power supply units (PSU) at the Diemer plant. The PSUs modify the voltage and frequency of the power supplied to the ozone generators.
- Staff began removal of two fluorosilicic acid (fluoride) tanks at Jensen plant that have reached their end of service life. Staff removed structural steel bracing on the tank farm roof to clear a path for tank removal. The work will be done in multiple steps to ensure continued operations of the fluoride feed system.

Objective: Prepare for Future Legislation and Regulation.

On July 25, the Department of Water Resources and State Water Resources Control Board (SWRCB) held a kickoff meeting for a new regulatory effort to evaluate the feasibility of developing water loss standards for urban water wholesalers. Metropolitan staff completed a survey developed by DWR regarding current and anticipated practices regarding wholesale water loss prevention. Metropolitan uses industry accepted practices to track its water losses, as well as establishing meter accuracy. On August 20, DWR held the first of two stakeholder meetings and will release an initial draft report in September 2019. Per Senate Bill 606, DWR is required to submit their findings to the legislature by January 1, 2020. Staff will participate in the stakeholder meetings and will continue to engage with DWR and SWRCB..

On July 31, Governor Newsom signed into law Assembly Bill (AB) 756 regarding per- and polyfluoroalkyl substances (PFAS) in drinking water. AB 756 authorizes the SWRCB to order a public water system to monitor for PFAS. The bill also creates a separate customer notification procedure. PFAS have not been detected in Metropolitan's imported water supplies, but it has been detected in some of Metropolitan's member agencies groundwater supplies

WATER SYSTEM OPERATIONS

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

Objective: Prepare for Future Legislation and Regulation. Continued...

On August 13, California Occupational Safety and Health Administration released draft language for new permanent regulations to protect employees from exposure to unhealthy levels of wildfire smoke. If adopted, the draft regulations would make substantive changes to the current emergency regulation, which became effective July 29, 2019. The draft regulation lowers the Air Quality Index for particulate matter below 2.5 microns (AQI) that triggers action on the part of the employers including notifications, additional monitoring, and/or use of respirators, depending on the trigger level. Staff will continue to monitor the proposed changes to the wildfire smoke regulation and update Metropolitan's Health, Safety and Environmental Manual, as needed.

On August 15, California Air Resources Board (CARB) released a third, and last, discussion draft to the Sulfur Hexafluoride (SF6) Regulation. The draft regulation includes a 12 category phase-out schedule for SF6 gas-insulated equipment (GIE) based on voltage capacity, and new annual reporting requirements. Metropolitan's current inventory of SF6 GIE includes 17 active and 2 inactive switchgear, with the potential to acquire three additional 230 kilovolt (kV) switchgear. Comments on CARB's latest draft were due August 29. After integrating these latest comments, CARB will issue a full regulatory draft and begin a formal 45-day rulemaking process. The final regulatory amendments are expected to become effective late 2020.

Staff held a conference call with CARB and the Southern California Alliance of Publicly Owned Treatment Works (SCAP) to help CARB understand water and wastewater agencies' heavy duty truck operational needs relative to future Zero Emission Vehicle (ZEV) requirements. CARB plans to first require manufacturers to sell ZEVs and vehicle owners to report comprehensive operating data. The data will then be analyzed to determine future ZEV purchase requirements.

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: Manage Water Reserves

State Water Project imports into the service area in August accounted for about 75 percent of Metropolitan's deliveries. Storage at Diamond Valley Lake is at 753,000 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 August. 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 this month at 680 cubic feet per second, for a year-to-date delivery of about 188,000 AF. Deliveries to Cyclic Storage and Conjunctive Use programs also continued in August, totaling 75,000 AF to date. Staff continues to manage storage in 2019 to meet anticipated demands and end-of-year operational targets.

WATER SYSTEM OPERATIONS

GM STRATEGIC PRIORITY: Ensure Imported Supply Reliability

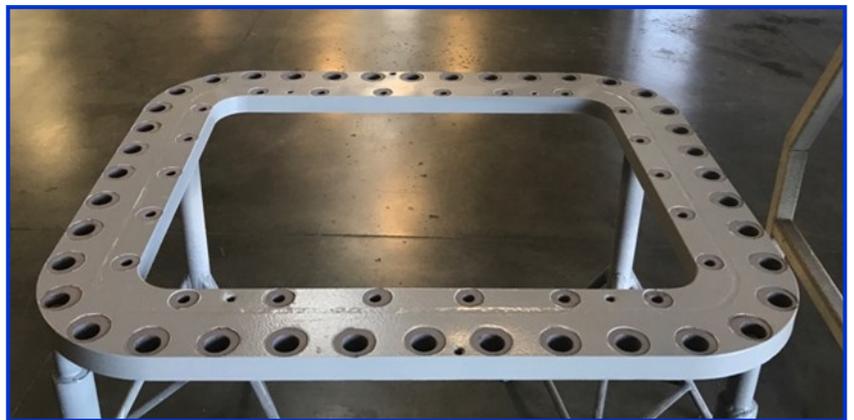
Southern California's foundational water supply remains the Colorado River and the State Water Project and their ongoing reliability is critical for the region. The emphasis for the State Water Project will be on working with the Newsom Administration to make the necessary revisions to the process to 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: Support Imported Supply Reliability.

The La Verne Shops refurbished a scroll case door and frame for DWR's Gianelli Pump Plant. The door provides access to the pump's internal components, discharge valve, and piping for maintenance and inspection. The door was leaking due to severe corrosion and required a complete refurbishment. The La Verne Shops manufactured and coated a new frame, as well as refurbished and coated the existing door. *(see photos below)*



Corroded scroll case door (left) and frame (right) for DWR's Gianelli Pump Plant



Refurbished scroll case door (left) and frame (right) for DWR's Gianelli Pump Plant

WATER SYSTEM OPERATIONS

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.

Several safety training sessions were conducted during August for operations at the Regional Recycled Water Advanced Purification Center in Carson, involving staff from Metropolitan, Los Angeles County Sanitation Districts, and the project consultants. These sessions focused on emergency action and fire prevention, potential health hazards from wastewater, bloodborne pathogens awareness, personal protective equipment, chemical hygiene, sample collection and handling, and appropriate use of biological safety cabinets for handling wastewater samples. This training will ensure worker and visitor safety during all phases of operation.

On August 28, staff conducted a workshop with project partners to finalize the testing and monitoring plan for evaluating performance of the Purification Center when using primary treated wastewater as the source (secondary membrane bioreactor [MBR] configuration), rather than secondary treated wastewater (tertiary MBR). If approved to move forward, secondary MBR testing will begin in 2021, after the 15-month phase of testing tertiary MBR is completed.

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 25.9 megawatts, or about 19,270 megawatt-hours, and nearly \$1.1 million in revenue for the month of July. Metropolitan's solar facilities, totaling 5.5 megawatts of capacity, generated about 1,110 megawatt-hours in July.

Objective: Protect Source Water Quality.

On August 7, staff participated in the Topock Consultative Work Group meeting in Lake Havasu City, Arizona, for the Topock Chromium-6 Groundwater Remediation Project. Pacific Gas and Electric, California Department of Toxic Substances Control, and U. S. Department of Interior representatives presented information related to implementation of the groundwater cleanup remedy and soils cleanup process. PG&E also presented a revised construction schedule, which includes a longer initial operation period to allow for additional monitoring and implementation of improvements to the long-term remedy before construction is completed. Construction is anticipated to be completed in 2025, followed by operations and long-term monitoring for several years to ensure cleanup and water quality protection goals are met along the Colorado River.

On August 7, staff also participated in a quarterly stakeholder meeting regarding perchlorate cleanup at the former Tronox site in Henderson, Nevada. The Nevada Environmental Response Trust discussed current remedial operations, ongoing site investigations, and the status of current treatability and pilot studies. Staff continues to monitor the overall development of the long-term remedial plan and distribution of the Trust's funds for site cleanup, which remains at \$1.1 billion.

WATER SYSTEM OPERATIONS

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 15 vacant positions in July 2019.

Objective: Prepare Employees for New Opportunities.

The Water System Operations Apprentice and Technical Training Programs develop and train personnel to become qualified mechanics and electricians responsible for maintaining Metropolitan's water treatment and distribution systems. Class of 2023 mechanics and electricians successfully completed their probation in the month of August. These apprentices are now registered with the State of California, Division of Apprenticeship Standards, to be recognized as active apprentices. *(see photo right)*

The eighth session of WSO Management Academy was held at the Jensen plant. The curriculum focused on optimizing performance with SMART goals and giving effective performance feedback. Human Resources presented an overview of recruitment, selection, and employee relations. The session also included a presentation on the Water Quality Section and a tour of the Jensen plant.



Class of 2021 mechanics disassembling and diagnosing a welder/generator during class instruction

Objective: Enhance Support Infrastructure at the Desert Facilities.

Staff continued work to replace and reroute a damaged sewer line in the Gene Village area and replaced a water clarifier used for the carwash at the Gene facility. *(see photos right and page 39)*

Staff continued work on the Gene Camp South Village power upgrades, including trenching and installing underground conduits for transmission lines. Work also continued on powerline upgrades at Copper Basin, which includes replacing power poles and transferring power transmission lines to new poles. *(see photo page 39)*



Staff replacing sewer line at Gene Village area

WATER SYSTEM OPERATIONS

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

Objective: Enhance Support Infrastructure at the Desert Facilities.



Staff installing new water clarifier for the Gene facility carwash



Staff transferring transmission lines to new power poles at Copper Basin

Objective: Support Education and Outreach Initiatives.

Staff conducted tours of the Water Quality Laboratory and Weymouth plant for high school students from the Los Angeles Service Academy and STEM students from several University of California schools. These tours provided information on operations, treatment, water quality, and applied research, with a focus on career opportunities within the water industry. The Weymouth facility also hosted a group of member agency legislative staff, providing a tour of the treatment plant, manufacturing and engineering shops, soils and concrete testing facility, and Water Quality Laboratory. The agency representatives were also given a presentation on per- and polyfluoroalkyl substances (PFAS), a widely used class of chemical contaminants that has recently received significant public and legislative attention.

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: Administer Group Operations, Provide Management Controls, and Access Available Funding.

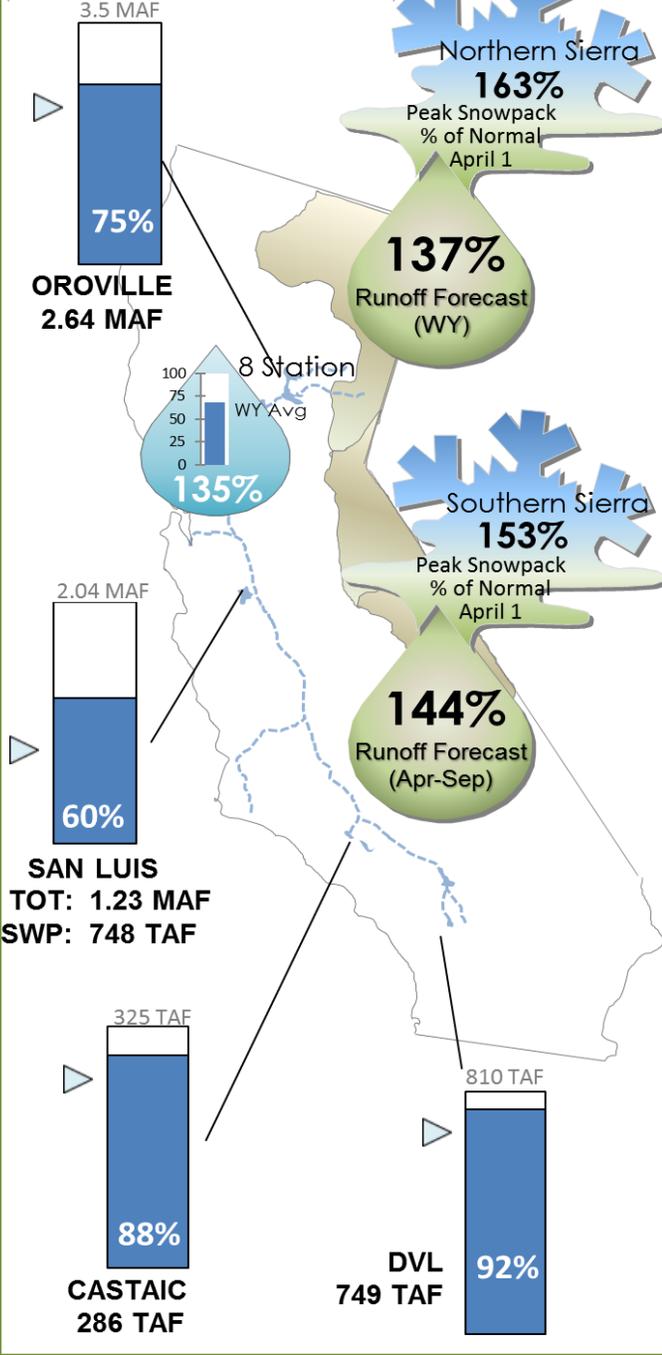
Business Support Team Managers and staff across WSO met to review and plan for the upcoming biennial budget development for fiscal years 2020/21 and 2021/22. The half-day meeting focused on current and anticipated changes expected to impact budget development for this period.

2019 SWP Allocation

1,433,625 AF

75% of Table A

(Does not include CVWD & DWA Table A)

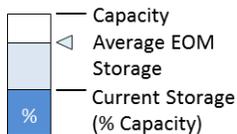
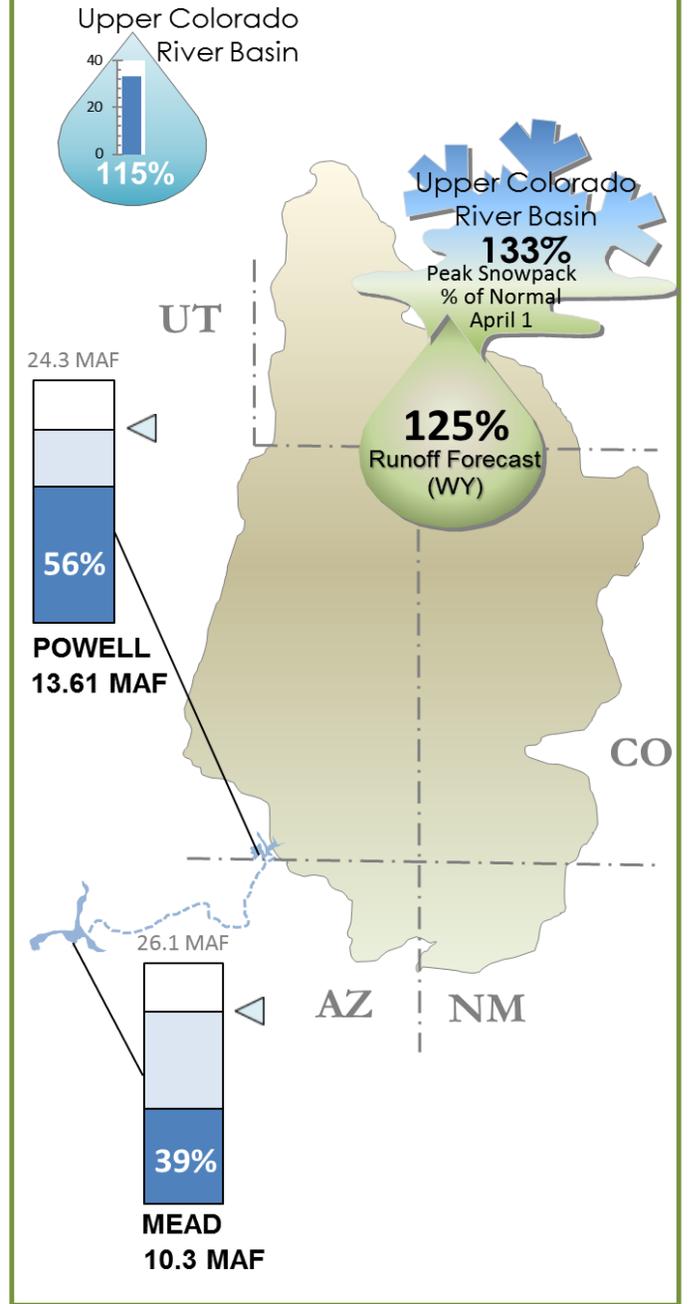


2019 Colorado River

930,564 AF

74% of full CRA

(Does not include storage withdrawals)



Peak Snowpack % of Normal April 1

Runoff Forecast WY

ADMINISTRATIVE SERVICES

Miscellaneous achievement.

The Contracting Services Unit was awarded the 2019 Achievement of Excellence in Procurement award for the 13th consecutive year. This national award is given to select agencies and Metropolitan is one of 47 agencies in California and one of 29 special districts in United States and Canada to receive this award. This award acknowledges adherence to and implementation of procurement industry best practices; use of cutting-edge technology and innovation; expedient and efficient processes (as measured by key metrics); and employee development and education. *(see photo below)*



2019 Achievement of Excellence in Procurement Award

Useful information:

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

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

TAF=thousand acre-feet.

MAF=million acre-feet.

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

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

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