



The Metropolitan Water District of Southern California
 General Manager’s Monthly Activity Report for January 2020
 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.

JANUARY 31, 2020

INFORMATION TECHNOLOGY

CORE BUSINESS: Information Technology

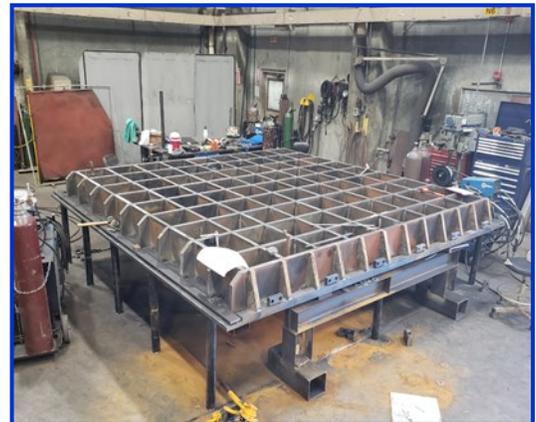
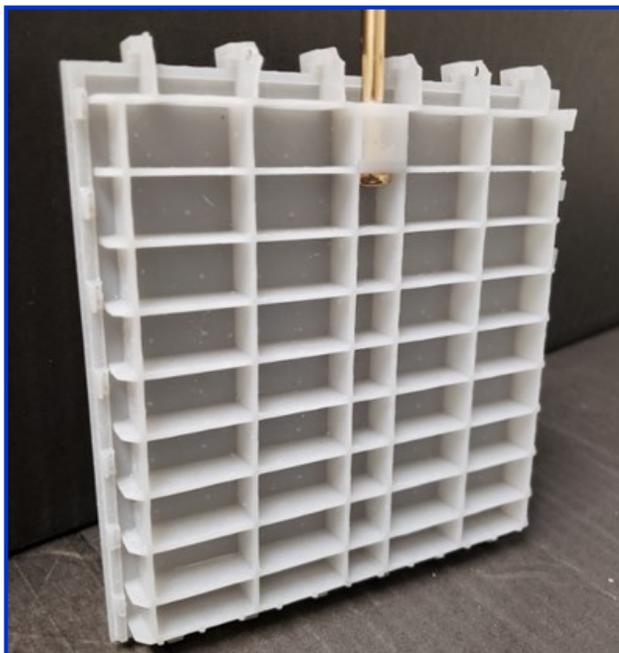
Collaboratively work with customers to deliver information technology options, services, and solutions in the areas of enterprise and business applications, Engineering Services and Water System Operations applications, data analytics, mobile/wireless computing, telecommunications, network services,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

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

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

- 3D printing enables quick production of precision prototypes, or small-scale versions of the real object in less time than using conventional methods. In addition to on-going support using current methods and materials, IT staff continues to evaluate advancements in 3D printing capabilities using materials such as carbon fiber, fiberglass, and Kevlar and applicable use cases for Metropolitan. Recent activities include support for modeling the Skinner FWR Bypass Gate Assembly. 3D printing was used for proof of concept (a new way to seal the gate) as part of the design process validation prior to actual fabrication. *(see photos below)*

3D Model below. Machine Shop Fabrication right



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ADMINISTRATIVE SERVICES

CORE BUSINESS: Business Processes

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

In January, the remaining personnel files in the Human Resources (HR) file room were sent off-site for scanning. By scanning the files, HR reduced their "paper" footprint and will have access to the files electronically while they are temporarily relocated due to the Headquarters' Seismic Retrofit project.

Objective: Develop, promote and support sustainable business practices.

The second quarter Newsletter, "2020 New Year, Greener Us!" was distributed to employees via the WaterTalk newsletter. This issue featured topics that included:

- 3 Easy Green New Year Resolutions
- Metropolitan's newly formed Interest Sustainability Group, also known as The Green Team
- Growing your Family Green

The Contracting Services Unit began visits to various Metropolitan facilities to discuss Metropolitan's Investment Recovery Program to meet and share awareness about Investment Recovery. The goal is to meet with all facilities by July 2020. Topics include (1) The process of disposing surplus materials and operating equipment that has become obsolete or surplus; (2) How Investment Recovery manages the surplus property, e.g.; Redeploy, Scrap, E-waste, or Resell; and (3) How Investment Recovery ties into the three main pillars of sustainability.

Miscellaneous

To ensure a high-level of customer service, the Document Services Records Management Team established a target goal to complete reprographic job requests on time by 95 percent. As of the middle of the fiscal year, the target goal was exceeded with 96.3 percent or a total of 751 customer requests completed on time.

BAY-DELTA INITIATIVES

GM STRATEGIC PRIORITY: Ensure Imported Supply Reliability

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

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

Joint Powers Authorities

The Delta Conveyance Design and Construction Authority (DCA) held its regularly scheduled monthly meeting on January 16, at which time the board approved a resolution amending the Bylaws that explicitly authorizes the Executive Director to delegate authority. The Delta Conveyance Finance Authority Board of Directors also met on January 16, where the board selected its officers. They elected Randy Record as president, Gary Kremen as vice-president, and Jeff Davis as secretary. They appointed Metropolitan Chief Financial Officer Katano Kasaine as Treasurer. The appointed executive committee members include Randy Record, Gary Kremen, Jeff Davis, Paul Sethy, and Valerie Pryor. The next Stakeholder Engagement Committee meeting is scheduled for January 22.

BAY-DELTA INITIATIVES

GM STRATEGIC PRIORITY: Ensure Imported Supply Reliability

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

Delta Conveyance

On January 15, the California Department of Water Resources released the Notice of Preparation (NOP) for the development of an Environmental Impact Report for the Delta Conveyance Project, initiating the environmental review process under the California Environmental Quality Act. The NOP signals the start of the scoping period and provides an opportunity for public comment on the scope and content of the CEQA review. DWR has also scheduled seven scoping meetings throughout February, with one in Los Angeles, at the Junipero Serra State Building from 6-8 p.m., on February 3, 2020. Written comments on the NOP are due March 20, 2020, and staff is coordinating with the member agencies. Modernizing Delta conveyance is part of the state's Water Resilience Portfolio.

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

Habitat Restoration

Metropolitan and the State Water Contractors are funding an update to the 2014 Yolo Bypass Infrastructure and Drainage Study. The Study focuses on the Tule Canal, which is the primary drainage conduit on the Yolo Bypass. It is also an important corridor for out-migrating juvenile salmon and adult salmon returning to spawn. The goal of the Study Update is to identify opportunities for habitat restoration in synergy with projects that address drainage issues on the Bypass.

A Record of Decision was signed by the U.S. Bureau of Reclamation for the Yolo Bypass Salmonid Habitat Restoration and Fish Passage Project in September 2019. The project, consisting of 100-foot wide set of operable gates in the Fremont Weir, will provide access to floodplain rearing habitat for juvenile salmonids and passage for adults returning to the Sacramento River to spawn.

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.

Science Development

Staff continued to collaborate with the State Water Contractors to identify and fund science projects addressing science priorities for Metropolitan and the SWC. Staff also participated in several collaborative science meetings, including the Interagency Ecological Program Estuarine Ecology, Contaminant and Predation Project work teams, Delta Science Program Primary Productivity workshop, and Delta Independent Science Board meetings.

Staff continued participating in the Collaborative Science and Adaptive Management Program, including participation on the Collaborative Adaptive Management Team (CAMT). At the January 21 CAMT meeting, staff provided input to the proposed 2020 work plan and received updates on salmon and steelhead science activities. Staff continued participation on the Delta Smelt Structured Decision Making Technical Work Group and the Salmon Subcommittee to provide technical input to ongoing projects.

CHIEF FINANCIAL OFFICER

CORE PRIORITY: Business Continuity

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

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

- Participated in planning meetings to discuss cybersecurity response plans.
- Developed the tabletop exercise utilizing a technology outage scenario.

CORE BUSINESS: Financial Management

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

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

- In December 2019, Accounts Payable processed approximately 4,400 vendor invoices for payment and took advantage of about \$6,000 in discounts.
- The fiscal year 2019 Comprehensive Annual Financial Report was submitted to the Government Finance Officers Association for the Certificate of Achievement for Excellence in Financial Reporting.

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

- As of December 31, 2019, the balance in Metropolitan's investment portfolio was \$1,094.7 million; for the month of December 2019, Metropolitan's portfolio managers executed 30 trades.
- During the month of December 2019, Treasury staff processed 1,640 disbursements by check, 14 disbursements by Automated Clearing House (ACH), and 79 disbursements by wire transfer. Treasury staff also processed 89 receipts by check, 33 receipts by ACH, and 50 receipts by incoming wires and bank transfers.

CEO STRATEGIC PRIORITY: Maintain Strong Financial Position

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.

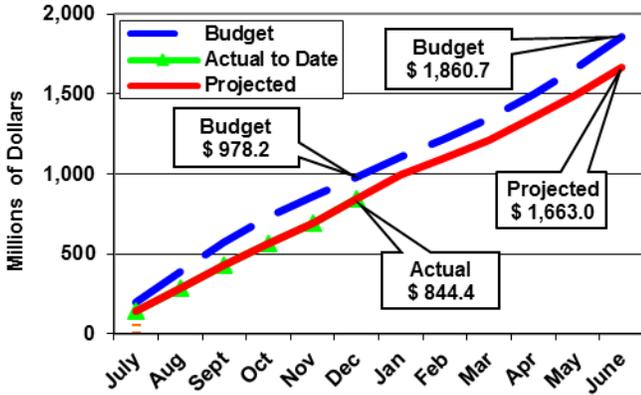
Objective: Manage risk to protect Metropolitan's assets against exposure to loss.

The Risk Management Unit completed 50 incident reports communicating instances of Metropolitan property damage, liability, workplace injuries, regulatory visits, and spills.

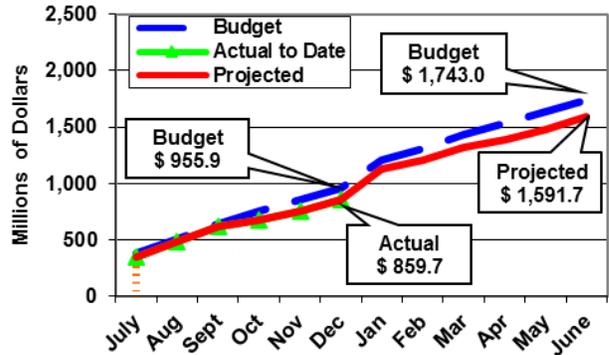
Risk Management completed 61 risk assessments on contracts, including professional service agreements, construction contracts, entry permits, special events, and film permits.

FINANCIAL SUMMARY AS OF DECEMBER 31, 2019

Revenues are expected to be \$197.7M under budget at year end primarily due to 198.4 TAF of lower projected water transactions.

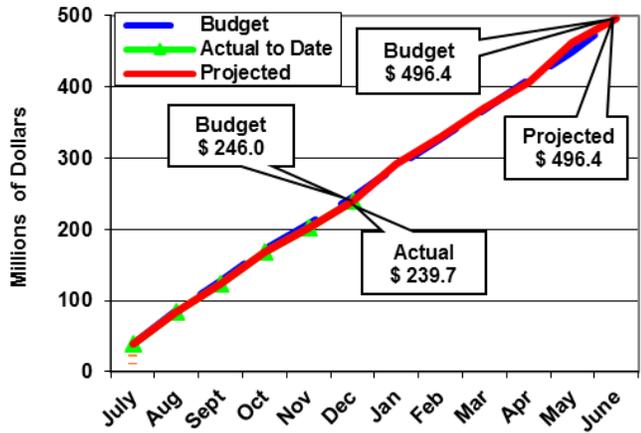


Excludes bond construction and other trust funds activity

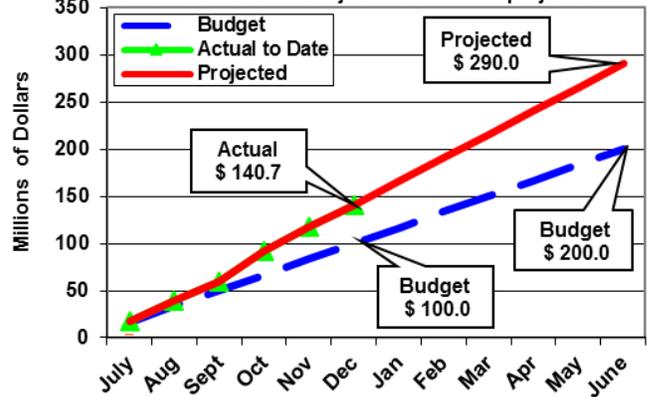


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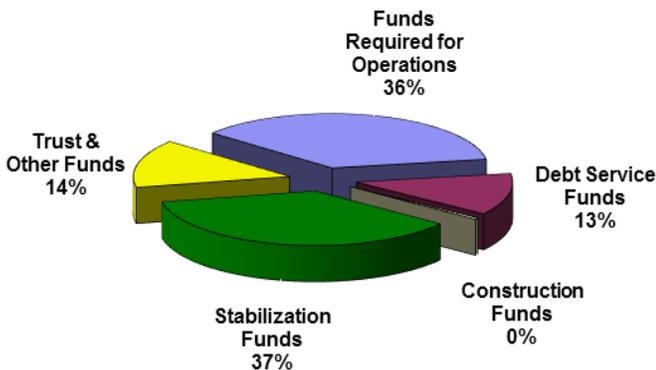
O&M expenses are expected to be on budget at year end.



Capital Program expenses are expected to be \$90M 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 \$ 1,102.9 million



Summary Financial Statistics

	Target	Year-End Projected
Fixed Charge Coverage	≥ 1.20 x	1.37 x
Revenue Bond Coverage	> 2.00 x	1.45 x
Revenue Bond Debt / Equity Ratio	< 100.0%	54.4%

Senior Lien Revenue Bond Credit Ratings

	Target	Current
- 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:

Red Mountain Hydroelectric Plant—This project refurbishes and/or replaces the turbine's mechanical components. Construction is 65 percent complete and is scheduled to be complete by March 2020.

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 90 percent complete and is scheduled to be complete by March 2020.

Electrical Upgrades at 15 Structures in OC Region—This project replaces deteriorated electrical components at 15 service connection structures within the Orange County operating region. The electrical components need to be replaced to maintain safe working conditions and prevent the potential loss of flow and control data. Construction is 80 percent complete and is scheduled to be complete by March 2020.

West Valley Feeder De Soto Valve Replacement—This project replaces the existing 42-inch butterfly valve with a new 42-inch high performance butterfly valve and a 42-inch multiple orifice valve. Both of these valves are currently being fabricated. Final design is complete and a Board action to award a construction contract is planned for January 2020.

Palos Verdes Reservoir Sewer Connection—This project constructs a new sewer line that connects to nearby municipal sewer line. Final design is complete. Construction is 75 percent complete and scheduled for completion end of January 2020.

Yorba Linda Hydroelectric Power Plant Completion Project—This project fabricates and installs an enclosure for rain protection for the plant generator. Metropolitan's Board awarded a construction contract for the enclosure in July 2019 is scheduled to be complete by March 2020. This project also upgrades various facility subsystems and procures spare parts for the power plant. Final design on these subsystems is 75 percent complete and is scheduled to be complete by March 2020. *(see photo next page)*

Greg Avenue Pump Station Rehabilitation—This project improves reliability of the Greg Avenue Pump Station by replacing the existing pumps, and by upgrading the electrical and control systems. Construction is 35 percent complete and is scheduled to be complete by December 2021. *(see photo next page)*

Orange County Region Service Center—This project constructs a new 12,000 sq. ft. permanent service center for the Orange County operating region. Construction is 90 percent complete and is scheduled to be complete by March 2020.

Whitewater Erosion Protection Structure Rehabilitation—This project repairs the erosion protection structure that was damaged from the heavy storms in February 2019. Construction is 30 percent complete and scheduled to be complete by end of March 2020. *(see photo next page)*

Santa Monica Feeder Inspection—This project performs an initial condition assessment on the cast iron portion of the Santa Monica Feeder and repairs potential leaks at four locations. In January, internal seals were installed at four locations to address potential joint leaks. In addition, the pipeline was inspected with a new technology that assesses the pipe wall condition. The condition assessment is 50 percent complete and is scheduled to be complete by late 2020.

ENGINEERING SERVICES

GM STRATEGIC PRIORITY: Enhance Infrastructure Safety, Security and Resiliency



Yorba Linda Hydroelectrical Power Plant Completion Project – Structural steel removable roof framing set in place with crane (story pg 6)



Greg Avenue Pump Station Rehabilitation– Installing Surge Tanks caisson foundation reinforcing steel (story page 6)



Whitewater Erosion Protection Structure Rehabilitation – Site overview with stream diversion on right and removal of damaged structure on left (story on page 6)

ENGINEERING SERVICES

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

Prestressed Concrete Cylinder Pipe (PCCP) Reliability Program

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

- **Second Lower Feeder PCCP Rehabilitation**—This project rehabilitates the remaining 28 miles of PCCP segments within the Second Lower Feeder. Long-term rehabilitation of the Second Lower Feeder will be staged over a period of eight to ten years. A total of 6.4 miles of PCCP on the Second Lower Feeder have been relined. 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 98 percent complete and is scheduled to be complete by December 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 25 percent complete and is scheduled to be complete by November 2020. Final design of Reach 3 is 79 percent complete and is scheduled to be complete by November 2020.
- **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. Pipe fabrication is complete and the delivery of pipe for Reach 2 is scheduled to be complete by April 2020.
- **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 to 16 inches and are used to control and isolate flow at air release/vacuum valve locations, dewatering vaults, and blowoff structures. All 216 valves were received and inspected and are in protective storage at the Weymouth plant in La Verne.
- **Second Lower Feeder Isolation Valve Procurement**—This contract provides 13 conical plug isolation valves for the Second Lower Feeder rehabilitation. These valves range in diameter from 48 to 54 inches and provide primary isolation for maintenance activities, inspections, and repairs required to maintain reliable water deliveries with Metropolitan's distribution system. Fabrication of the first three 48-inch conical plug valves is 45 percent complete, and the valves are scheduled to be delivered by December 2020.

Colorado River Aqueduct (CRA) Reliability Program

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

- **CRA Discharge Isolation Couplings**—This project consists of fabricating and installing 44 isolation sleeve couplings assemblies at the five Colorado River Aqueduct pumping plants. Construction is 5 percent complete and is scheduled to be complete by June 2021.
- **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 99 percent complete and is scheduled to be complete by February 2020.
- **CRA Motor Cable Replacement**—This project replaces the electrical cables that provide power to the main pump motors. Simultaneous work is currently underway at all five CRA pump plants. Work will be completed in two phases, Fall 2019, and Spring 2020. Construction is 45 percent complete and is scheduled to be complete by July 2020.
- **CRA Radial Gate Replacement**—This project replaces eight deteriorated radial gates along the aqueduct in two stages. Construction of Stage 1 to replace a radial gate at Eagle Mountain Pumping Plant is complete. Construction of Stage 2 is 5 percent complete and is scheduled to be complete by March of 2021.
- **CRA Utility Systems Replacement**—This project replaces the existing domestic water distribution systems, wastewater systems and village asphalt pavements at all five of Metropolitan's Pumping Plants. The project will be designed and constructed in multiple construction packages. The Eagle Mountain Pumping Plant is the first package to be released for advertisement for construction bids in February 2020. The design for the other pumping plans are still in progress.
- **CRA Domestic Water Treatment System**—This project replaces the membrane filtration system and associated water treatment equipment at the five Colorado River Aqueduct pumping plants. Procurement of water treatment equipment will be advertised for bids in February 2020. Design of the installation contract package is 40 percent complete and is scheduled to be complete by December 2020.

ENGINEERING SERVICES

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

Treatment Plant Reliability Program

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

Weymouth Plant

Weymouth Domestic Water Upgrade—This project upgrades the aging domestic and firewater loop at the Weymouth plant. Construction is 78 percent complete and is scheduled to be complete by May 2020.

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 55 percent complete and is scheduled to be complete by December 2020.

Jensen Plant

Jensen Electrical Upgrades, Stage 2—This project upgrades the electrical system with dual power feed to key process equipment in three stages to achieve conformity with current codes and industry practices. Stage 2 improvements will upgrade UPC-7, UPC-9, and their associated motor control centers to support critical process equipment. Construction is 11 percent complete and is scheduled to be complete by June 2022

Jensen Module 2 and 3 Flocculator Rehabilitation—This project rehabilitates the Modules 2 and 3 flocculators at the Joseph plant. Construction is 10 percent complete and is scheduled to be complete in February 2021.

Diemer Plant

West Basin and Filter Building Rehabilitation—This project performs rehabilitation of the west flocculation/sedimentation basins and filter building at the Diemer plant, including replacement of treatment basin equipment and filter valves, abatement of hazardous materials, and seismic strengthening of the filter building. Construction is 55 percent complete and is scheduled to be complete by December 2020. *(see photo below)*

Diemer Water Sampling System Improvements—The project upgrades the existing Diemer water sampling system. This system is comprised of 13 sample locations. Construction is 56 percent complete and is scheduled to be complete by December 2020.



Diemer Plant West Basin and Filter Building Rehabilitation -
Setting new launders in place within Basin 5

ENVIRONMENTAL PLANNING SECTION

GM STRATEGIC PRIORITY: Enhance Infrastructure Safety, Security and Resiliency

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

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

CEQA/NEPA

- Monitored vegetation clearing in support of project design surveys for the Orange County Feeder Blow-off Structure Rehabilitation project.
- Completed review of the following documents for the PCCP Sepulveda Feeder Project: Permitting Traffic Concept Technical Memo, Valve Criteria and Alternatives Technical Memo, and the Construction Phasing Plan.
- Completed pre-construction biological surveys, provided Environmental Awareness training for construction personnel, and obtained Amendment No. 3 to the Streambed Alteration Agreement (SAA) from California Department of Fish and Wildlife (CDFW) for the Whitewater Erosion Protection Structure Rehabilitation project.
- Provided CEQA analysis and determined the following projects were exempt: Metropolitan Headquarters Master Space Plan, San Diego Pipeline No. 3 Shutdown, Lake Skinner Outlet Conduit Shutdown, Colorado River Aqueduct Intake Pump gallery cleaning, and boulder placement at Tin Mine Road gate at Lake Mathews.

Regulatory Permitting Support and Compliance

- Submitted annual report for routine vegetation removal and road grading activities to California Department of Fish and Wildlife and U.S. Fish and Wildlife Service in compliance with regulatory permits for the Upper Feeder Santa Ana River Bridge Crossing project.
- Coordinated pre-construction surveys and biological monitoring for annual tamarisk removal in support of the Lake Skinner routine maintenance projects.
- Received the CDFW Streambed Alteration Agreement for the San Diego Pipeline No. 3 shutdown and dewatering.
- Conducted biological surveys and prepared biological reports in support of the CDFW SAA notifications for upcoming shutdowns at the Robert A. Skinner Water Treatment Plant and along the Yorba Linda Feeder.
- Completed and submitted the project closeout letter for the Casa Loma Siphon No. 1/San Jacinto Pipeline Hazard Mitigation Project to the U.S. Army Corps of Engineers in support of the emergency Clean Water Act Section 404 permit.
- Conducted biological monitoring and provided environmental clearance for the Inland Feeder shutdown.

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 the following programs:

- Sustainability certificate program at UCLA
- Master's program in Environmental Studies at Cal State Fullerton

Staff participated in the following training, conferences, and other events:

- CRA Inspection Trip
- LA County Bar Association meeting to learn about enforcement priorities by the California Department of Justice, South Coast Air Quality Management District, and Los Angeles County District Attorney's office.

ENVIRONMENTAL PLANNING SECTION

GM STRATEGIC PRIORITY: Promote Environmental Stewardship and Sustainability

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

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

Lake Mathews Multiple Species Reserve

Reserve management broadcast seeded 20 acres north of the lake with native grass and coastal sage scrub species after a prescribed burn.

Southwestern Riverside Multi-Species Reserve

- Staff presented the Diamond Valley Lake and Lake Skinner Trails Project to the Reserve Management Committee at its December meeting.
- Reserve Management obtained a grant with AmeriCorps to conduct weed abatement.
- Began propagating 200 purple needle grass plugs, a California native species, that will be planted in Stephens' kangaroo rat restoration units.
- Repaired Reserve roads that were affected by recent heavy rain.

Upper Salt Creek Preserve

Coordinated with Real Property to obtain an entry permit for University of California, Riverside scientists to perform vegetation surveys on the preserve.

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

Lake Mathews Multiple Species Reserve

Planned and attended a pre-bid job walk for a Request for Proposal for the development of reclamation plans and CEQA documentation in compliance with the provisions of the Surface Mining and Reclamation Act.

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 11 WSO projects, 3 Real Property actions, and 8 board letters.

Engineering Services Support

- Reviewed design and provided environmental specification language for Metropolitan Headquarters Upgrades.
- Coordinated with Safety of Dams staff to prioritize dam maintenance needs and identify CEQA and regulatory permitting strategies to authorize ongoing routine maintenance activities.
- Completed design review and environmental specifications for the CRA Water Distribution Replacement project at Hinds and Eagle and the Iron Mountain and Gene Water Distribution and Wastewater System Replacement project.

ENVIRONMENTAL PLANNING SECTION

CORE BUSINESS Business Processes continued...

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

Water System Operations Support

- Performed tree health assessment and nesting bird surveys to support tree removal activities at Palos Verdes Reservoir.
- Conducted environmental surveys to support routine maintenance of the CRA patrol roads between Cabazon and Fan Hill.
- Completed environmental monitoring during the shutdown and dewatering of the Inland Feeder.
- Submitted request to the Bureau of Land Management to become a Cooperating Agency on the proposed Whitewater River Groundwater Replenishment Facility Environmental Impact Statement.

External Project Review

Participated in a California Council for Environmental and Economic Balance Natural Resources Task Force coordination meeting to hear important environmental updates throughout the state and to discuss strategies for permit streamlining with regulatory agencies.

Real Property Support

- Coordinated with Real Property to install K-rails at Metropolitan's Portrero property to prevent trespassing.
- Completed CEQA review and environmental specifications for the Replacement of HVAC Units at Desert Homes, Colorado River Aqueduct Housing Hinds and Eagle Fencing Installation at Ten Houses, and the Hinds and Flooring Repair projects.

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 and Lefevre and Metropolitan staff met with representatives from the New South Wales Irrigators' Council who were visiting California to learn about water policies and management programs. (*see photo right*)

Directors Dick and Lefevre with representatives from the New South Wales Irrigators' Council



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.

- Directors De Jesus, Lefevre, and McKenney, Chief External Affairs Officer Zinke, and staff attended the Southern California Water Coalition Quarterly Luncheon on "Water and Political Climate Change." Featured speakers were Ed Manning, Partner, KP Public Affairs; Adam Probolsky, President, Probolski Research; and Jay Ziegler, Director of External Affairs and Policy, The Nature Conservancy California. (January 24)
- Chairwoman Gray attended and General Manager Kightlinger participated in a panel discussion at VerdeXchange 2020 on "Making California's Local Water Supply Resilient & Sustainable." Other featured conference speakers included Mayor Garcetti, Secretary for Resources Crowfoot, and State Water Board Chair Esquivel. (January 28)
- In response to the state's release of the Notice of Preparation for Delta Conveyance and the draft Water Resiliency Portfolio, Metropolitan provided updated information to the public, member agencies, and news media including a statement from General Manager Kightlinger, new website and social media content, and messaging support.

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

Metropolitan staff is working with Congressional offices on proposed federal legislation on Per- and polyfluoroalkyl substances and water quality, climate change, migratory bird protection, funding to ensure access to safe drinking water for disadvantaged communities and infrastructure investments.

Metropolitan hosted staff from Representative Roybal-Allard's office on a tour of the Regional Recycled Water Advanced Purification Center. (January 24)

State

Governor Newsom's FY 2020/21 budget plan includes increased funding for priority initiatives including homelessness, climate change, and wildfire preparedness. The Governor also proposed a \$4.75 billion climate resilience bond for the November 2020 ballot that would include \$2.95 billion for safe drinking water, flood management, and drought preparedness. The proposed budget endorsed the Governor's plan to build a single tunnel to modernize conveyance in the Delta and state support for the voluntary agreements.

Senator Portantino (D-La Cañada-Flintridge) chair of the Senate Appropriations Committee, will author Metropolitan's and California Municipal Utilities Association's co-sponsored legislation to create a new Constituents of Emerging Concern Program at the State Water Resources Control Board.

A Metropolitan-supported bill, AB 533 (Holden D-Pasadena) to exempt water conservation rebates from personal and corporate income tax, was not approved by Assembly Appropriations Committee and will not move forward in the Legislature this session.

EXTERNAL AFFAIRS

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

Local

- Staff from Metropolitan, the Orange County Water District, and local city officials provided an update to the Santa Ana Neighborhood Association on the role of local water agencies, current water supply conditions, and planned activities for water quality and infrastructure resiliency. (January 8)
- Staff provided a water supply update for the San Gabriel Valley Economic Partnership (January 22) and the Southern California Water Users Association (January 23).
- Directors Repenning and Quinn, Chief Administrative Officer Chapman, and staff attended the Los Angeles Area Chamber of Commerce 2020 Inaugural Dinner.
- Staff presented on “The Future of State Water Supplies” at the Three Valleys MWD Leadership breakfast. (January 30)
- Staff presented on outreach, education, and stakeholder engagement activities for the Regional Recycled Water Program at the California Water Environment Association Conference. (January 28).

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

- Coordinated interview between Los Angeles Times reporter Bettina Boxall and General Manager Kightlinger regarding draft environmental documents on State Water Project operations, state/federal biological opinions, and settlement agreements.
- Set up interview for Vox news reporter Johnny Harris and General Manager Kightlinger on geopolitics of Colorado River and history of the Colorado River Aqueduct for the online show “Borders” including a separate site visit for Harris to the Whitsett Intake Pumping Plant.
- Arranged interview between San Joaquin Valley Water reporter Lois Henry and Water Resource Management Manager Safely regarding the Department of Water Resources’ report on subsidence and the California Aqueduct.
- Coordinated interviews on Southern California’s water supply and reservoir conditions following the California Department Water Resources snow survey. Water Resource Management Manager Polyzos participated in an interview with Steve Scauzillo of Southern California News Group and an on-camera interview with KABC-TV.
- Set up interview between Information Technology Manager Eckstrom and Metal Toad’s Joaquin Lippincott for website blog on technology leaders and cloud technology.
- Arranged interview between Nevada Independent reporter Daniel Rothberg and Colorado River Resources Manager Hasencamp next steps following the finalization of the Drought Contingency Plan.

Press Releases/Statements

- New Directors Representing Los Angeles, Inland Empire Join Metropolitan Board
- Metropolitan Statement on Initiation of Single Delta Tunnel Environmental Review
- Metropolitan Water District, Bard Water District Partner for Colorado River Sustainability in California

Social Media

- Posted on social media, including a tweet of Chairwoman Gray with Central Arizona Board President Atkins, which received nearly 20,000 impressions. Another tweet on Metropolitan’s partnership with Desert Water and Coachella received more than 240 engagements.
- A photo capturing the launching of a remotely operated vehicle to inspect pipes at the Colorado River Aqueduct’s Hinds Pumping Plant was Metropolitan’s most liked Instagram post, with more than 200 “likes.”
- Posted three New Years-themed graphics on conservation rebates and planting California native plants, with an emphasis on Facebook. The postings reached more than 140,000.

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.

Construction Project Updates

- Held a community meeting in the city of Los Angeles for residences and businesses near the Second Lower Reach 2 PCCP Relining Project. (January 7)
- Notified residences about upcoming dam maintenance activities near the Palos Verdes Reservoir. (January 8)
- Met with the city of Placentia engineering staff (January 9) and the city of Yorba Linda engineering staff (January 29) to discuss the permitting process for Second Lower Feeder Relining Reach 8 project scheduled for November 2020.
- Distributed 200 notices to residents and businesses for the East Orange County Feeder Shutdown in Anaheim. (January 17)
- Distributed 1,500 notices to residences and business for the East Valley Feeder Shutdown. (January 27)
- Notified residences near the Greg Avenue Pump Station about upcoming 24-hour work. (January 28)

Public Outreach for Metropolitan Projects

- Staff provided tours of the Regional Recycled Water Advanced Purification Center to the Water and Power Associates (January 8); Valley County Water District and La Puente Valley County Water District (January 14); public agency real estate managers (January 15); Three Valleys Municipal Water District (January 22); Los Angeles County Public Works Waterworks Division (January 23); and Engineers without Borders (January 25). A tour of the facility was part of the California Water Environment Association Pretreatment, Pollution Prevention and Stormwater Conference (January 27). In addition, a public tour of the site was held. (January 31)
- Staff provided a tour of Weymouth water treatment plant for staff from the Los Angeles County Health Department, Environmental Health, Emergency Preparedness and Response Program. (January 9) *(see photo below)*
- Metropolitan organized a training session for new tour guides for the Regional Recycled Water Advanced Purification Center. (January 30)
- Metropolitan provided six inspection trips for directors and Metropolitan staff to the Colorado River, State Water Project facilities, and Southern California water infrastructure.



The Los Angeles County Health Department, Environmental Health, Emergency Preparedness and Response Program during their tour of Metropolitan's Weymouth Treatment Plant.

EXTERNAL AFFAIRS

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

Objective: PUBLIC OUTREACH AND MEMBER SERVICES - continued...

Member Agency Support

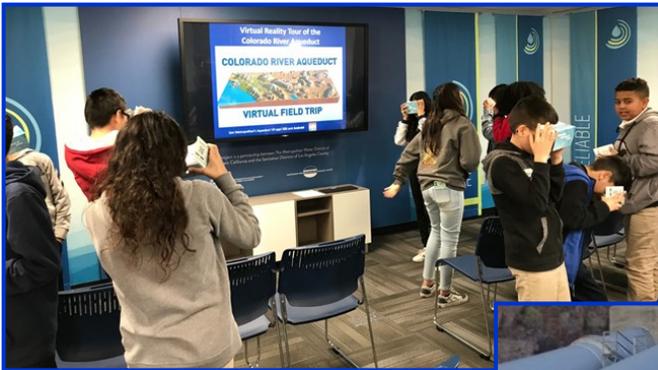
Metropolitan hosted the quarterly meeting for member agency public information officers to share information about the Delta Conveyance NOP and public scoping meetings, PFAS (per- and polyfluoroalkyl substances) updates, water supply conditions, and new conservation outreach activities. (January 23)

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.

General Education

Metropolitan staff provided field trips/events/activities for students from Rosa Parks Elementary School, Hawthorne Middle School, Porter Middle School, Educators' Colorado River Inspection Trip, and Water Journeys, and interacted with 535 students, teachers, and community members. *(see photo below)*

More than 30 educators from grade K-community college attended the annual Educators' Colorado River Aqueduct Inspection Trip to learn about Metropolitan's water operations and available educational resources. (January 3-5) *(see photo below)*



Sixth grade GATE students from Hawthorne Middle School learned how to #thinkh2o by taking a virtual reality tour of the Colorado River Aqueduct and the Regional Recycled Water Advanced Purification Center.

Educators at the Intake Pump during inspections trip.



EXTERNAL AFFAIRS

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

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:

- Exhibited and served as a panelist for the OneLA Contracting Connections conference with more than 200 attendees. (January 21)
- Participated in the American Indian Chamber of Commerce's annual corporate advisory strategic meeting with 20 board members. (January 14)
- Attended Metro's Construction Manager/General Contractor (CM/GC) Industry Forum. (January 9)
- Exhibited at the Construction Management Association of America 2020 Owners' Night. (January 14)
- Attended the Construction Network Owners' Outlook with more than 400 companies in attendance. (January 28)

Metropolitan was honored by the State of California Department of General Services' State Agency Recognition Awards for state and partner agencies that achieve top level small business goals. (January 30)

HUMAN RESOURCES

GM STRATEGIC PRIORITY: Foster Leadership and Strengthen Workforce Capabilities

More than half of Metropolitan's workforce has reached retirement age, including many members of Metropolitan's executive management team. This is a challenge to Metropolitan's capacity to adequately train and prepare its workforce but is also an opportunity to build a workforce geared for the challenges of the future. While Metropolitan's workforce is becoming increasingly more diverse, Metropolitan will continue to foster an inclusive and innovative workplace, promoting a safe and discrimination-free work environment, and provide opportunities for all employees to use their diverse talents to support Metropolitan's mission.

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

MET Management University continued with its ninth cohort for 27 recently promoted managers. This fifth session focused on personality styles, conflict resolution, and persuasive communication.

Twenty-one employees completed the third and fourth modules in Engineering's Design Management Training program, which was developed to help standardize the design manager skillset and optimize processes. The day's content included setting clear objectives and milestones, budgeting, and managing change.

Thirty-six employees went on an employee two-day Colorado River Aqueduct Inspection Tour, which began at the Intake Pump Plant on Lake Havasu.

HUMAN RESOURCES

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

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

- Recruitment filled 31 positions for the month of January. HR received 37 new staffing requisitions resulting in 188 positions currently in recruitment.
- Hired an HR Analyst III to assist with outreach and data analysis as part of the Affirmative Action and Non-Discrimination Plans.
- Began planning the outreach strategies for the upcoming Pre-Apprentice recruitment and other Water System Operations positions.

HR PRIORITY: Provide Excellent Human Resources Services

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

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

The entire Human Resources Group has moved to a new temporary location as a result of construction activities at Headquarters. On January 28, HR opened for business on the second floor wing (located above the currently closed Courtyard Cafe) in the Headquarters Building. Access to HR will be via the elevators located near the entrance to the currently closed Courtyard Café. During construction, the Wellness Center will be closed for approximately six months.

Staff completed the review and update of the Deferred Compensation Plan Documents used to administer the 401(k) and 457(b) Plans and to provide guidance to plan participants. The changes ensure Deferred Compensation Plans remain in compliance with the recently passed SECURE Act and the new IRS guidelines. Staff also reviewed new California laws that took effect January 1, 2020, for the Domestic Partnership and Lactations programs, to ensure that Metropolitan remains in compliance with all legal mandates.

325 employees attended training classes such as:

- Personal Security Awareness
- Preventing Workplace Harassment
- P-Card Administration
- Retirement Planning

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

HR continued work with Information Technology to implement the addition of LinkedIn Learning to the new MyLearning platform. LinkedIn Learning will expand employee access to online training on a wide variety of job and career-related topics. The target date for organization-wide launch is March 1, 2020.

Human Resources has sent 90 percent of its records offsite to become secure digital records to support the planning for the Enterprise Content Management project. This also reduced the amount of records to be moved during HR's move to a temporary location for the seismic upgrade project.

HUMAN RESOURCES

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.

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 13 new claims to Metropolitan's Workers' Compensation Claim Administrator
- Closed 19 Workers' Compensation Claim Files
- Currently 5 employees remain off work due to industrial injury or illness
- Arranged 16 clinic evaluations (Department of Motor Vehicle exams and medical surveillance exams)
- Coordinated medical surveillance exams at two facilities. (Jensen and Diemer). These included, respirator exams, Department of Motor Vehicle exams, hearing tests, and flu shots.
- Coordinated 1 random drug and alcohol tests at Diemer.
- Addressed 4 Accommodation issues

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.

Water System Operations Management and Employee Relations are meeting and conferring with AFSCME to discuss the appropriate salary grade and potential specialized pays for the revised Commercial Diver (Operations and Maintenance Tech IV) job description.

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.

An updated online Preventing Sexual Harassment training class has been assigned to all employees and will be rolled out to all managers in February.

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 plan and execute the Cybersecurity Capital Project to enhance Metropolitan's security posture and collaborate with stakeholders to enhance network security capabilities for Metropolitan's computing environments.
- Coordinated with management on the issuance of a Security Advisory Update to all Metropolitan employees and contractors. The communicate was a reminder to report any suspicious activities and actions that can be taken by users, and to raise cybersecurity awareness to protect Metropolitan and its critical infrastructure.
- Conducted Community of Practice meeting with Chief Information Security Officers from private and public sectors to learn, share ideas, and discuss strategies for mitigating risks associated with evolving cybersecurity threats.
- Continued to partner with business units across Metropolitan to address potential vulnerabilities and safeguard Metropolitan's computing environment. Recent activities include:
 - Cybersecurity deployed a new self-service Guest Wi-Fi to safeguard Metropolitan's wireless network while allowing for easy access for visitors at the Headquarters building.
 - Worked in collaboration with WSO on enhancements to the SCADA network for remote access.
 - Initiated work on enhancing security for Metropolitan's Web Portals.

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

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

Board and Committee Room Upgrade—The Board previously authorized staff to proceed with the design phase to upgrade the audio/visual (A/V) systems at the Headquarters building. IT is working collaboratively with Engineering Services and Facilities on this technology/construction project to replace the end-of-life A/V equipment in the Board and Committee rooms.

- In January, the team continued with the design review phase and presented to executive management the approach and overall design of the new A/V systems.
- Based on input from executive management, staff will begin development of a competitive solicitation and plans to return to the Board for approval to proceed with the construction phase of the project.

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

- This project is proceeding according to plan and the team is currently working towards the 60 percent design phase milestone. The team continues to collaborate with the consultant to develop estimates on construction and installation costs as part of the design phase, prior to seeking Board action.

INFORMATION TECHNOLOGY

CORE BUSINESS: Information Technology continued...

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

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

- The original scope of this project has reached the substantially completed phase. Recent activities include Disaster Recovery drills, Final Applications User Acceptance Testing (UAT) and sign off by the customer, and validating the new enhanced disaster recovery and response capabilities with improved performance.

IT continued IT Disaster planning for recovery exercises as part of validating Metropolitan's recovery capabilities in the event of a disaster. In addition, IT is evaluating new disaster communications network services used for public safety, which would further enhance Metropolitan's response capabilities in the event of disruptions to regular telecommunication services.

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

Promote IT governance through the IT Executive Council and Operation Technology Governance Committee to ensure alignment with Metropolitan's strategic priorities.

- Conducted January 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 Metropolitan business goals, as well as provides review and approval of IT priorities, strategic plans, projects, and policy.
- Held quarterly Operational Technology Governance Committee meeting with business stakeholders to ensure alignment of IT priorities with Metropolitan business goals and provide review and approval of IT priorities related to operational technology projects at Metropolitan.

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

Simplify Access to Business Information

- Energy Scheduling System—This project replaces the existing Power Management System (PMS) providing key functionalities for operational schedule management. This software is used for power scheduling and energy reconciliation of Metropolitan's Hydroelectric Power Recovery Plants and the Colorado River Aqueduct Pumping Operation.
 - In the prior period, staff completed the development of the new Energy Scheduling software and put into use the system at Eagle Rock for testing. Based on success of the initial testing phase, staff is currently conducting final User Acceptance Testing. The deployment of the system to a production environment (go-live) is planned to complete in February.
 - The new Energy Scheduling System replaces an older system that was implemented back in 2005 that had reached end-of-life and is no longer supported. This project replaces obsolete software with newer, supportable and more flexible tools to address changing business and functional requirements.

IT worked in collaboration with Human Resources to simplify access to personal information by providing self-service access to Wage and Tax Statements (W-2). Employees can receive their W-2 electronically through MyHR, as an alternate to printed copies of W2.

IT and HR staff completed software patching, testing, and updates of HR/Payroll systems required for the start of the new calendar year. The updates were completed over the year-end holidays, which reduced the impact to users and normal operations.

INFORMATION TECHNOLOGY

CORE BUSINESS: Information Technology continued...

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

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

- IT staff partnered with Business Outreach to evaluate innovations that may be applicable to Metropolitan. For example, Staff provided an assessment of using ultrasound technology to reduce algae and forwarded it to Metropolitan's Limnologists to further investigate the possibility of using this technology at the District.
- IT staff continued to conduct on-going planning and UAV (Unmanned Aerial Vehicle) drone missions to capture aerial video, photos, and data to support Metropolitan's business units. Recent activities include:
 - Conducted flights with the Video Team to capture high water photos and video of DVL and Lake Mathews
 - Captured aerial video of various Second Lower Feeder Prestressed Concrete Cylinder Pipe Rehab sites, Diemer shutdown maintenance, and Whitewater Erosion Control construction to support Engineering Services reporting and updates to the Board
 - Captured aerial video for Sepulveda Feeder PCCP Rehab sites for Engineering Services
 - Conducted flights of snowpack survey at Lake Tahoe for External Affairs

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

Wadsworth Pumping Plant (DVL) Control System Upgrade Project—The Diamond Valley Lake control system provides critically important support to the operation of the distribution system, including the ability to generate power and revenue. This project is currently in the major installation phase as the team continues the control system and the electrical system protection equipment upgrades (controls and communications systems, protection relay system, vibration monitoring system, and parts of the power controls system).

- To date, six of the nine pump units have been made operational.
- During the period, IT continued to work in collaboration with Engineering Services and Water System Operation on upgrade activities on the three remaining units. Work is proceeding according to plan with System Acceptance Testing scheduled for the third quarter of this fiscal year.

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 team provided the project steering committee with an update on the status of pilot testing using different communication technologies, along with a summary of findings. Pilot testing (using various communication technologies such as radio frequency, satellite, and two-way radio) is scheduled to continue through the end of the fiscal year to determine how each technology performs against the design criteria.

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 continued to work on inventory of equipment and systems, and met with data owner(s) on development of business process models as part of developing an initial project scope and project plan.

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.

Staff executed a six-month extension rider for two Caltrans encroachment permits previously acquired in support of the Prestressed Concrete Cylinder Pipe Rehabilitation Program for the Second Lower Feeder, Reach 2 to allow work to continue under the 405 and 110 freeways through the end of the construction phase.

Staff acquired and recorded a temporary six-month easement on a property in Brea, California in support of the Right-of-Way and Infrastructure Protection Program for the Orange County region. The purpose of this easement is to install a retaining wall and additional rip rap to prevent further erosion near the existing blow-off structure.

GM STRATEGIC PRIORITY: Foster Leadership and Strengthen Workforce Capabilities

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

Objective: Foster staff training and development.

Staff attended the CRA Employee Inspection Trip.

Staff completed the following International Right of Way Association-sponsored trainings/seminars: IRWA Chapter 67 January Luncheon; IRWA 600 – Environmental Awareness; IRWA 800 – Principles of Real Estate Law.

Metropolitan hosted the quarterly Public Agency Real Estate Managers Forum at the Regional Recycled Water Advanced Purification Center in Carson. At the event, participants from various agencies and municipalities learned about Metropolitan's innovative efforts to diversify and strengthen our region's water supply.

CORE BUSINESS: Real Property Acquisition, Management and Revenue Enhancement

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

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

- A 30-year license was granted for Desert Harvest, LLC to construct, operate, and maintain a 220 kV generation interconnection line traversing 4.86 acres of Metropolitan fee-owned property near the Eagle Mountain Pumping Plant. The 30-year term commenced on January 9, 2020.
- An entry permit was granted for the installation of temporary power poles within the Lower Feeder right of way in the city of Corona through January 15, 2020.
- The existing license with Orange County Water District for groundwater recharge purposes at Santiago Creek in the city of Orange was amended to implement fixed annual increases of four percent and update the environmental compliance provisions.
- A two-year extension was granted to Urban Park Concessionaires to continue operating the Diamond Valley Lake Marina through September 30, 2021. The economic terms of the lease were not changed.

REAL PROPERTY

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

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

The Western Science Center completed the construction of an illuminated monument sign on the corner of Domenigoni and Searl Parkway. This project is a joint effort between Metropolitan, Valley-Wide Recreation, and the Western Science Center. The sign displays messages about special events, recreational opportunities, water conservation, and information of interest to the local community. *(see photo below)*

The DVL Marina Concessionaire continued its fish restocking program with an additional trout plant. The combined efforts of the Marina Concessionaire and the fishery program administered by the California Department of Fish and Wildlife have contributed greatly to the popularity of DVL as a premier fishing destination. *(see photo below)*



New DVL Monument Sign



Restocking at DVL

SECURITY

Objective: Improve Employee Readiness for All Hazards Emergencies.

“Stop the Bleed” is a national awareness campaign from the Department of Homeland Security. The campaign trains, equips, and empowers bystanders to help in a bleeding emergency before professionals arrive. The purpose of this training is to convert bystanders into immediate responders, who can potentially save lives of those with serious injuries. Metropolitan employees now have access to voluntary training to learn how to properly use the newly acquired bleeding control kits, installed at all occupied Metropolitan facilities. The training sessions are two-hours long and are available to improve employees’ readiness for all hazard emergencies.

Objective: Foster staff training and development.

Security personnel underwent extensive training to improve security and emergency response. Interim Security Team Manager Dave Cole was certified as an Emergency Medical Technician in December 2019 with other Security Specialists following suit.

WATER RESOURCE MANAGEMENT

GM STRATEGIC PRIORITY: Maximize Local Resources

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

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

The Bureau of Reclamation recently selected Metropolitan for a \$750,000 WaterSMART: Water Reclamation and Reuse Research Title XVI grant. Metropolitan’s proposal, “Demonstration of Pathogen Removal through an Alternative Treatment Technology to Treat Non-Nitrified Secondary Effluent for Potable Reuse,” will help accelerate testing and approval of the Regional Recycled Water Advanced Purification Center’s membrane bioreactor

GM STRATEGIC PRIORITY: Foster Leadership and Strengthen Workforce Capabilities

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

Objective: Promote learning and increased technical capacity of staff.

Water Efficiency Team is updating processes for data management by pilot testing a software called “Alteryx” with Information Technology. The benefit of the new software is that processing data will be much faster and more accurate than with the previous process

WATER RESOURCE MANAGEMENT

GM STRATEGIC PRIORITY: Prepare for More Extreme Hydrology

Staff will work closely with the Board to assess Metropolitan's storage capabilities, current strategies and review future needs to identify whether new strategies and/or new investments are needed. Metropolitan will examine new opportunities to leverage technology and innovation to promote conservation, efficient water use and water stewardship through a comprehensive demand management program that includes investments in research, innovation, and public education along with targeted incentives for the residential, commercial, industrial, and institutional sectors.

Objective: Implement Conservation Program

Bill and Melinda Gates Foundation and National Resources Defense Council Workshop—Bill McDonnell, Water Efficiency Manager, attended a small workshop of water experts, stakeholders, and regulators in Sacramento to discuss the potential next steps on the path to commercialization of the “reinvented toilet.” Those in attendance includes representatives from CalTech, TOTO Inc., International Codes Council, KB Homes, State Water Resources Control Board, International Association of Plumbing and Mechanical Officials, Alliance for Water Efficiency, NRDC, and the Bill and Melinda Gates Foundation. This new technology, if it meets plumbing code standards, will revolutionize the plumbing industry and allow for cheaper installation of more water efficient products.

Model Water Efficient Landscape (MWEL) Workshop—Water Efficiency Team held its first workshop of 2020 in partnership with Elsinore Valley and California Landscape Contractors Association. Topics covered included MWEL history, plants and soils, irrigation, water budgeting, and MWEL case study.

California Irrigation Institute (CII) 58th Annual Conference California Water - Cultivating the Future—Metropolitan is a member of the Board of Directors and assisted in the planning and implementation of the conference. The conference brings together both agricultural and urban stakeholders interested in water efficiency

Codes and Standards Meeting—Attended American Society of Mechanical Engineers (ASME) annual winter meeting in Austin, Texas. ASME sets codes and standards for plumbing fixtures in North America. These water efficient codes help towards Metropolitan reaching its IRP goal.

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.

On January 20, the California Department of Water Resources increased the allocation of 2020 State Water Project supply from 10 percent to 15 percent of requested Table A amounts. The increased allocation was based on recent precipitation, runoff, and hydrologic conditions, including storage in State Water Project reservoirs and operational constraints related to the biological opinions for endangered species. Metropolitan's approved allocation of SWP supply now stands at 286,725 acre-feet. In addition to 2020 Table A supply, Metropolitan has approximately 350,000 acre-feet of carryover supply stored in San Luis Reservoir.

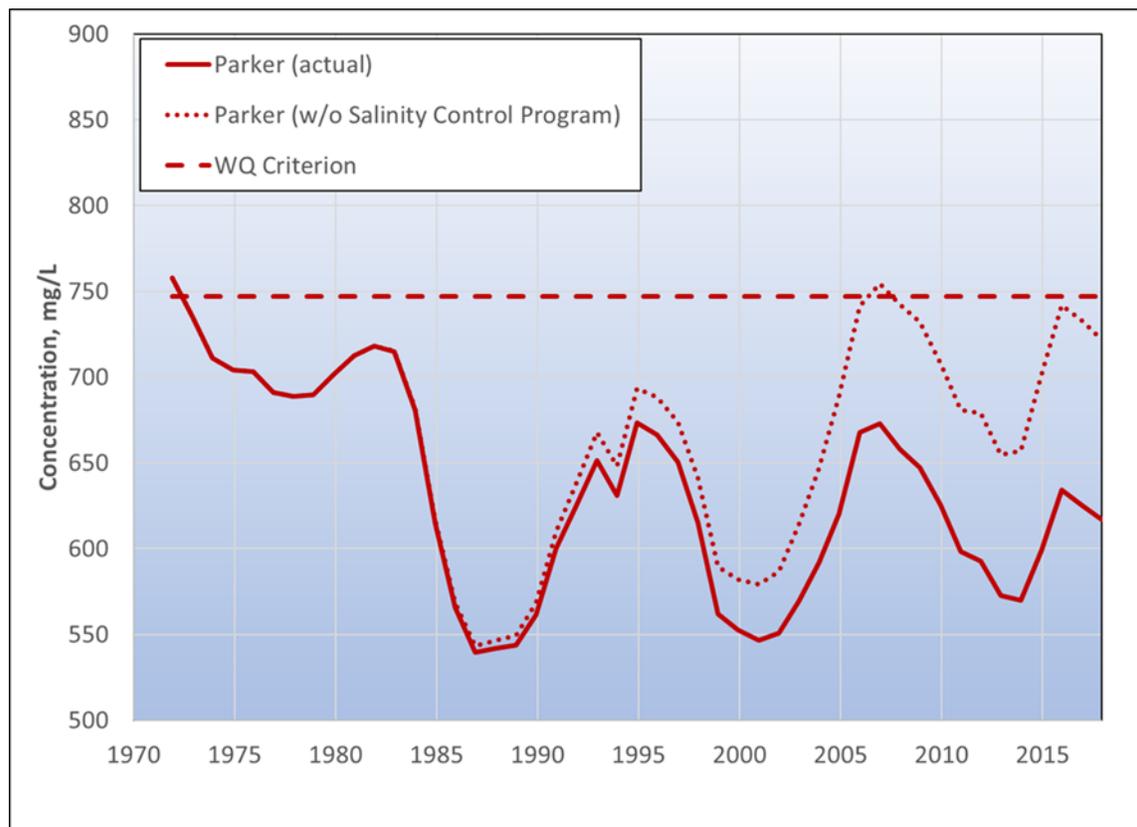
WATER RESOURCE MANAGEMENT

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

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

Colorado River Basin Salinity Control Program

In January 2019, Metropolitan attended a meeting of the Colorado River Basin Salinity Control Forum (Forum) in Las Vegas, Nevada. The Forum discussed the Paradox Valley Unit (PVU), a deep aquifer brine injection well responsible for approximately 100,000 tons/year of salt control in the upper Colorado River Basin. The well is currently inactive due to ongoing seismic activity believed to be linked to the brine injection.



Colorado River salinity below Parker Dam and Lake Havasu, with and without the Salinity Control Program (SCP) (average annual concentration, 1971–2017). Graph shows a salinity reduction of 105 mg/L attributable the SCP as of 2017.

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: 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 December 2019.

At the end of December, Metropolitan submitted its Chemical Compliance Monitoring Plans to the State Water Resources Control Board as required by Title 22 regulations. These monitoring plans cover the 2020 – 2028 period and focus on inorganic and organic chemicals, radiologicals, general minerals, and physical parameters for compliance with California drinking water regulations. The sampling sites include source waters, treatment plant influents, and treatment plant effluents (entry points to the distribution system).

On January 14, Metropolitan submitted its 2019 Industrial Waste Discharge Compliance Reports to the Colorado River Basin Regional Water Quality Control Board for nine domestic and industrial waste septic systems at the five desert pumping plant facilities. All systems were in full compliance with waste discharge requirements.

Objective: Provide Reliable Water Deliveries.

Metropolitan delivered approximately 90,000 acre-feet of water to member agencies in January. January deliveries averaged approximately 3,000 AF per day, which was the same as December deliveries. Treated water deliveries for January totaled 55,000 AF, or 60 percent of total deliveries for the month. This was a decrease of about 5,000 AF from December treated water deliveries. The Colorado River Aqueduct transitioned from a 4-pump flow to a 1-pump flow in early January, and averaged 600 AF per day. A total of 18,600 AF of Colorado River water was pumped in January. State Water Project imports averaged 2,100 AF per day, totaling 64,000 AF for the month. The target SWP blends were zero percent at the Weymouth, Diemer, and Skinner plants at the beginning of the month to accommodate a planned Department of Water Resources Devil Canyon outage. Weymouth and Diemer plants transitioned to a 25 percent SWP target blend mid-January, while Skinner plant increased to a 75 percent target blend. The Diemer plant was shut down from January 21 to 27 for planned system improvements and inspections.

Metropolitan supported Los Angeles Department of Water and Power in January for its annual shutdown of the Los Angeles Aqueduct Filtration Plant. During the 14-day shutdown, the Jensen plant increased treated water deliveries to LADWP, providing an average of 800 AF per day. Staff placed additional treatment modules into service, and the increased plant flows helped meet the increased demand. *(see photo below)*

Flow control structure at the Jensen plant to the LA-25 service connection



WATER SYSTEM OPERATIONS

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

Objective: Actively Engage in Capital Project Planning and Execution.

As part of the Colorado River Aqueduct UPS (uninterruptible power supply) Replacement capital project, UPS systems were replaced at all five pumping plants. The previous UPS systems were outdated and beginning to fail. After installation of the new UPS systems, staff transferred SCADA (supervisory control and data acquisition) equipment over to the new systems.

The final stage of the Yorba Linda Power Plant Reliability Upgrades capital project included installation of a new generator housing enclosure. The enclosure protects the generator's electrical and mechanical components from rain and condensation that can build up during storm events. The work involves setting an enclosure frame onto the concrete base structure, followed by attaching roof and side panels to create a weatherproof structure.

Objective: Optimize Maintenance.

- Staff inspected a 4.5-mile section of the Santa Monica Feeder in the city of Beverly Hills using a high-resolution ultrasonic sensor called a "pipe diver." The cylinder-shaped sensor traveled down the pipeline at a rate of 1 to 2 feet per second, detecting the thickness of the cast iron pipeline and condition of the mortar lining while recording the results. The information is being evaluated and will be used to assess the pipeline condition and plan for future repairs or improvements. While the Santa Monica Feeder was out of service for this evaluation, a portion was also dewatered to replace two valves and install several internal band seals to repair leaks identified during a shutdown last May. The leaks were detected using acoustic sensor technology called a "smart ball." Use of these innovative inspection technologies allows Metropolitan to better ensure reliability and avoid unplanned outages.
- Staff repaired a pump unit at the Eagle Mountain pumping plant by machining a replacement sleeve for the worn and corroded pump stuffing box. A stuffing box is used to control leakage around the pump shaft. This unit is one of the Colorado River Aqueduct's 45 pumping units.



(Left) Machining replacement stuffing box sleeve for a pump unit at Eagle Mountain pumping plant

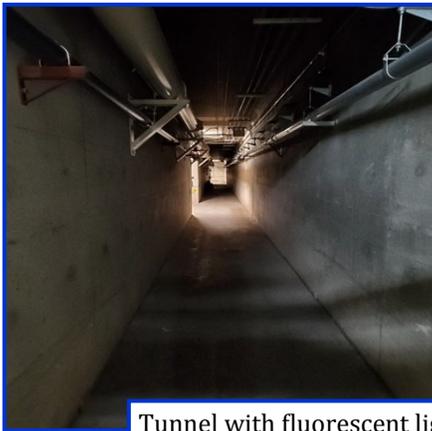
(Above) Fabricated stuffing box sleeve for a pump unit at Eagle Mountain pumping plant

WATER SYSTEM OPERATIONS

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

Objective: Optimize Maintenance. Continued...

- Metropolitan's Inland Feeder has an interconnection to the San Bernardino Valley Municipal Water District system known as the Cone Camp Intertie. During routine inspection and maintenance of the intertie valve structure, staff detected a leak in a bypass pipeline. Staff shut down the pipeline and performed an internal inspection that revealed substantial corrosion that will require the bypass line to be replaced. To return the Inland Feeder and interconnection to service and eliminate the leak, staff isolated the bypass line by installing a bulkhead. Permanent repairs and modifications to the bypass line will be scheduled to align with future planned outages and maintenance work.
- This month, staff replaced two batteries in the main switchgear room that failed at the Jensen plant. The batteries are critical when transferring from system power to a backup generator during power outages as they provide the necessary power to allow the circuit breakers to operate during the outage. The batteries at the Jensen plant are maintained monthly and have a lifespan of about five years.
- Staff installed 30 new high-efficiency LED fixtures as part of a lighting rehabilitation project at the Weymouth plant. The lights were installed in tunnels below the plant's sedimentation basins. The new LED fixtures have an estimated maintenance-free service life of ten years, while their self-dimming capabilities allow them to be approximately 60 percent more efficient while providing over twice as much light as a fluorescent bulb. *(see photos below)*



Tunnel with fluorescent lighting before (left) and after replacement with LED lighting (right) at the Weymouth plant

This month, staff performed black start testing of the emergency power system at the Jensen plant. During normal operations, staff simulated a loss of power. Staff monitored the automatic transition of power from LADWP to two 1.5-megawatt generators, and then from the generators back to LADWP power. There were no impacts to operations during the test period. This test is performed annually to ensure that the backup generators will start, transfer, and carry the plant's electrical load in the event of a power outage.

Staff replaced a valve position indicator at the Hollywood Tunnel North Portal Pressure Control Structure along the Santa Monica Feeder. This device allows staff to receive an accurate signal of the open position status of the valve for remote monitoring. Staff was also able to mount the new device at a location more accessible for repairs. *(see photo right of the new valve position)*



WATER SYSTEM OPERATIONS

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

Objective: Optimize Maintenance. Continued....

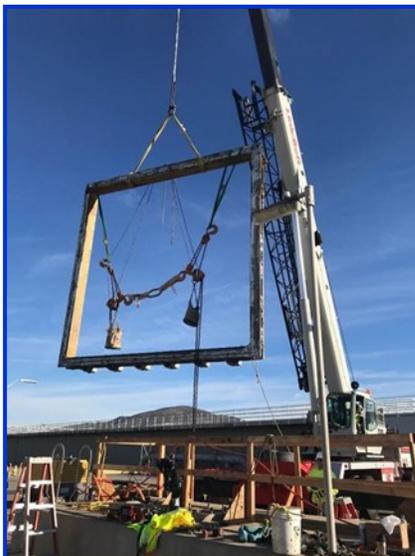
The La Verne Shops manufactured and coated a new bypass gate assembly for the finished water reservoir at the Skinner plant. The existing slide gates have been in place for nearly 30 years and are in need of refurbishment. A new gate was manufactured to facilitate swapping out the existing influent, effluent, and bypass slide gates for refurbishment when needed. This allows Metropolitan to ensure operational reliability and schedule future refurbishment with minimal impact to the plant. The new slide gate was fit tested at the La Verne Shops to ensure successful field installation, while the original bypass gate was shipped to La Verne for future refurbishment. *(see photos below)*



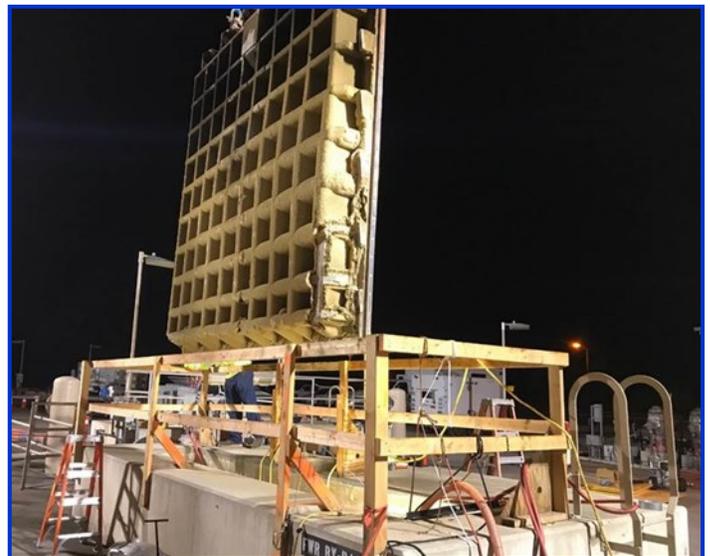
Staff fabricating a bypass slide gate



Staff coating a bypass gate



Staff removing the existing bypass gate



Staff installing a new bypass slide gate

WATER SYSTEM OPERATIONS

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

Objective: Manage the Power System

On January 15, Metropolitan participated in the quarterly Boulder Canyon Project Engineering and Operating Committee meeting to discuss current plant operations and maintenance issues. The Contractors received an update from the U. S. Bureau of Reclamation on a landfill site on BCP property showing elevated metals levels. USBR has proposed a landfill mitigation plan that would include erosion control measures and a future landfill cap, and has submitted this plan to the Nevada Department of Environment Protection.

Objective: Improve Security and Emergency Response.

On January 15, staff met with emergency managers from Metro Transportation and Union Station at Metro's Emergency Operations Center. Attendees discussed ways the various agencies located at Union Station can coordinate during a site-wide emergency.

Objective: Optimize Water Treatment and Distribution.

Flow-weighted running annual averages for total dissolved solids from November 2018 through October 2019 were 379, 380, and 395 mg/L for Weymouth, Diemer, and Skinner plants, respectively.

On January 13, the Mills plant was shut down for three days while staff conducted an inspection of the plant's inlet control valves. These valves allow the Mills plant to control the flow of water into the plant. The Mills finished water reservoir remained in service during this period, ensuring reliable water supplies for the member agencies. [\(see photos right\)](#)

Staff inspecting slide gates at the influent of the Mills plant



- Staff is replacing the flocculator drive shafts in the Weymouth plant's original two basins, constructed in 1941. Due to increased age and wear, the shafts are being replaced with new stainless steel shafts that will increase corrosion resistance, life expectancy, and overall reliability of the equipment.
- Staff replaced an outdated ammonia analyzer with a new model at the Weymouth plant. The new analyzer provides the plant the ability to measure both free and total ammonia at the plant's finished water reservoir.

WATER SYSTEM OPERATIONS

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

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

The Diemer plant had a scheduled full-plant shutdown between January 21 – 27 for several reliability upgrades. The Diemer Incident Command Post was activated and remained active for the duration of the shutdown to track work progress, control safety measures, and act as a central communication center for staff and others. Staff raised the rejection weir elevation in the finished water reservoir to increase the reservoir's active storage level. In addition, staff installed a flow meter at the plant influent to improve the accuracy of flow monitoring into the plant, particularly under lower flows, and help optimize treatment operations. Finally, staff replaced a flow meter at the washwater reclamation plant. The Diemer plant shutdown also involved extensive coordination between Metropolitan and the member agencies, and was completed one day ahead of schedule. ([see photos below](#))



Staff core drilling to install piping for the ozone cooling water system at the Diemer plant



Staff removing sediment that accumulated in the basin influent channel at the Diemer plant



Staff installing a flow meter at the washwater reclamation facility at the Diemer plant

WATER SYSTEM OPERATIONS

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

Objective: Prepare for Future Legislation and Regulation.

On December 12, the Chemical Safety and Hazard Investigation Board (CSB) released a draft rule regarding Accidental and Chemical Release Reporting. Established in 1990, the CSB is a federal agency that investigates chemical accidents. The proposed rule requires Metropolitan to not only report to the National Response Center in the event of a federally reportable release, but to notify CSB as well. To date, Metropolitan has not had a federally reportable release event for either chlorine or ozone. CSB will complete the rulemaking by February 5, 2020.

On December 17, Metropolitan submitted comments to the State Water Resources Control Board regarding its proposed amendments to the underground storage tank regulations. Metropolitan owns and operates 41 storage tanks for its vehicle fuel stations and emergency generators. Metropolitan commented on reporting times when no corrective action is needed, and recommended guidance to be provided when certifying an underground storage tank used for an emergency generator that is equipped with an alarm.

On December 19, U.S. EPA's Risk Management Program Reconsideration Final Rule went into effect. The Final Rule retains the requirement to hold a public meeting within 90 days after an accident, but only for those accidents with offsite impacts. Lastly, the Final Rule pushes the compliance dates for conducting emergency exercises and updating the risk management plans to four to seven years into the future.

On December 20, Metropolitan sent a comment letter to the State Water Resources Control Board on proposed draft regulations for the Environmental Laboratory Accreditation Program (ELAP). All of Metropolitan's laboratories (i.e., the main laboratory in La Verne and the five water treatment plant laboratories) are ELAP certified. The SWRCB anticipates adopting the new rules in March 2020.

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.

Metropolitan began 2020 with a record dry-year storage level of over 3 million AF. State Water Project imports into the service area in January accounted for about 94 percent of Metropolitan's deliveries. Storage at Diamond Valley Lake is at 785,000 AF or 97 percent full. Water reserves continued to be managed according to Water Surplus and Drought Management principles, the Annual Operating Plan, operational objectives, and the current 15 percent 2020 SWP allocation. Deliveries to banking and storage programs (Semitropic, Kern Delta, Antelope Valley-East Kern Storage, Advanced Delivery Account with Desert Water Agency and Coachella Valley Water District, Cyclic and Conjunctive Use) ended in December 2019, and no further deliveries were made in January 2020. State Water Project imports increased in late January, as shutdowns allowed, to move Carryover supplies out of San Luis Reservoir should the reservoir fill under wet conditions in the months ahead.

Storage	As of 1/31/20	% of Capacity
DVL	788,353 AF	97
Lake Mathews	143,125 AF	79
Lake Skinner	42,249 AF	96

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 5 vacant positions in December 2019.

Objective: Support Education and Outreach Initiatives.

Staff provided two tours of the Water Quality Laboratory and Weymouth plant for groups representing the Los Angeles County Health Department and a Metropolitan Director. Tour participants were given an overview of Metropolitan's water treatment facilities, water quality and treatment issues, and plant operations and maintenance activities.

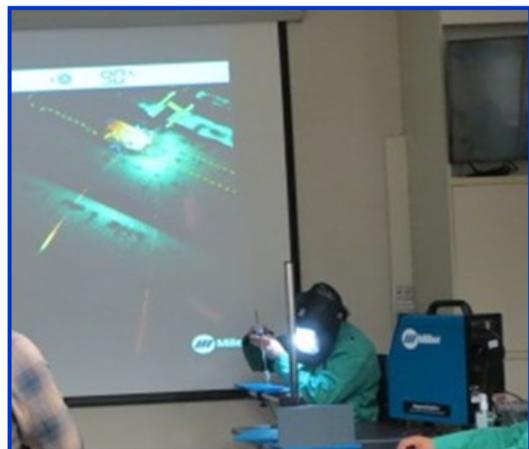
Staff assisted with four Colorado River Aqueduct inspection trips in January. This included two, three-day inspection trips for West Basin Municipal Water District and school educators within Metropolitan's service area; and two, two-day inspection trips for the San Diego County Water Authority and Metropolitan employees. Participants visited the Gene field headquarters, attended a boat trip on Copper Basin, and toured the Whitsett Intake pumping plant located on Lake Havasu.

On January 31, staff provided a tour of Diamond Valley Lake to representatives from Central Basin Municipal Water District. Participants toured the West Dam, Inlet/Outlet Tower, and Wadsworth pumping plant and received a presentation on Metropolitan's operational activities.

Objective: Prepare Employees for New Opportunities.

The WSO 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. Apprenticeship classes resumed for the spring semester. Instruction this semester includes welding for the mechanical Class of 2021. Welding and fabrication comprise a significant portion of the Demonstrated Proficiency Assessment mechanical apprentices must complete before achieving journey-level status. Hands-on shop exercises for the mechanics this period included use of augmented reality welding trainers. These recently acquired trainers simulate the welding experience, provide real-time feedback on technique, and offer apprentices practice to further develop their skills without consuming resources or generating unnecessary scrap metal waste. *(see photos below)*

Class of 2021 apprentices practicing using the augmented reality welding trainer



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.

This month, staff continued to work with the Los Angeles County Sanitation Districts and project consultants to optimize biological denitrification within the membrane bioreactors (MBR) at the Regional Recycled Water Advanced Purification Center. Much of this work focused on characterizing the mixed liquor suspended solids (MLSS) in the MBR system. *(see photo right)*

Staff collecting samples to conduct biological treatment tests at the Advanced Purification Center



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 31 megawatts or about 23,300 megawatt-hours and \$1.2 million in revenue for the month of December 2019. Metropolitan's solar facilities, totaling 5.5 megawatts of capacity, generated about 360 megawatt-hours in December 2019.

Objective: Protect Source Water Quality.

On January 7, staff participated in the Clearinghouse Task Force meeting for the Topock Chromium-6 Groundwater Remediation Project. The California Department of Toxic Substances Control and Pacific Gas and Electric provided an update on project activities. Construction of the groundwater treatment system is underway and expected to be completed in 2025, followed by long-term operation and maintenance of the system. The long-term soil cleanup remedy is in development and the remedial investigation is expected to be completed in late 2020.

WATER SYSTEM OPERATIONS

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. Metropolitan holds some of the nation's highest credit ratings for government agencies by maintaining strong reserves and limiting its use of debt. Long-term investments will be made through a prudent combination of long-term funding sources as well as annual rate revenues. Capital expenses will continue to be funded at a significant level on a pay as you go (PAYGO) basis per Board policy. Potential investments such as modernizing the State Water Project would be phased in over time and have been prudently built into Metropolitan's rate projections

Objective: Ensure Accurate Billing Infrastructure.

Staff continued construction of the new SKPE-1 service connection, located near the Skinner plant, for the San Diego County Water Authority. The new connection provides greater operational flexibility to SDCWA by metering water at lower operating ranges below 40 cubic feet per second. This month, staff completed structure walls, backfill of tie-in points, placement of reinforcing pads, and placement of a precast concrete vault. (*see photos below*)



Staff installing steel reinforcement (left) and placing concrete pad (right) at the new SKPE-1 service connection at the Skinner plant

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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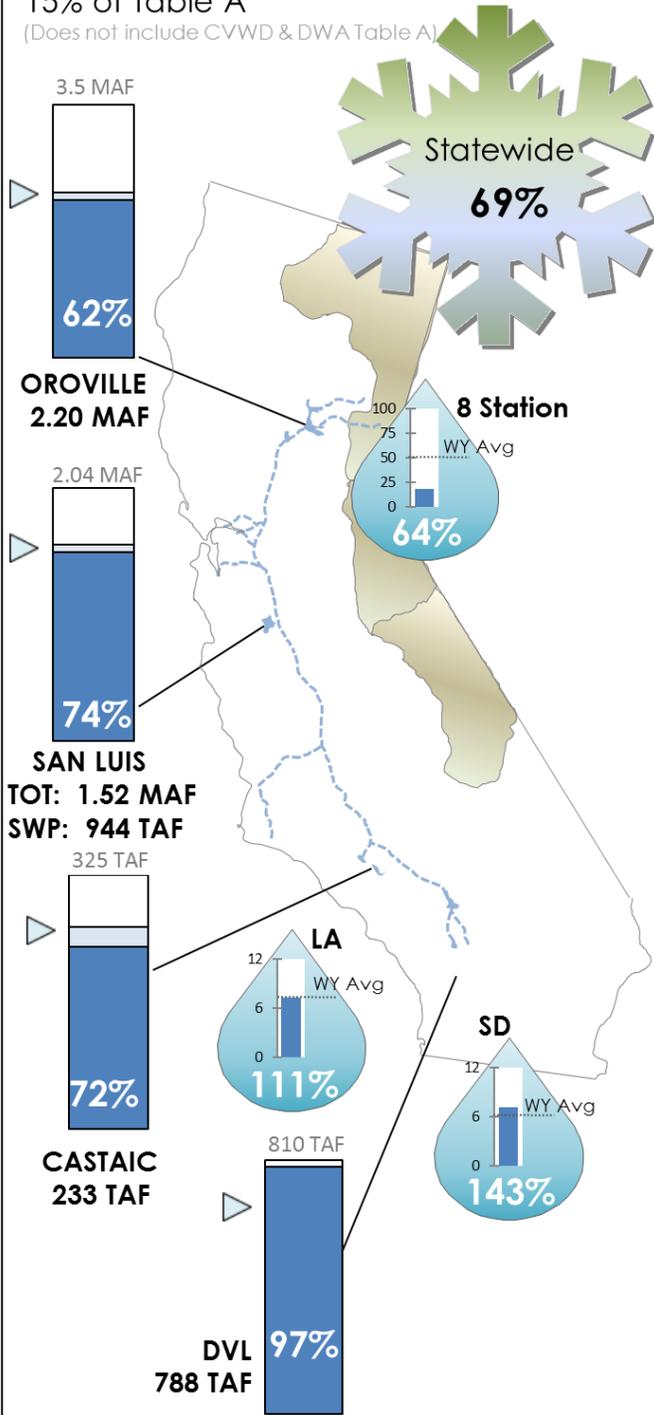
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2020 SWP Allocation

286,725 AF
15% of Table A
(Does not include CVWD & DWA Table A)



2020 Colorado River

988,000 AF
79% of full CRA
(Does not include storage withdrawals)

