



The Metropolitan Water District of Southern California General Manager's Monthly Activity Report for January 2019

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

JANUARY 31, 2019

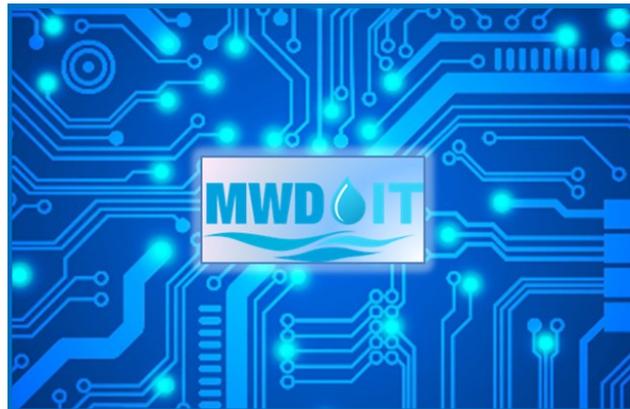
INFORMATION TECHNOLOGY

CORE BUSINESS: Information Technology

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

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

- Worked with key business partners and stakeholders as part of on-going efforts to enhance Metropolitan's IT cybersecurity infrastructure. Efforts include operational initiatives and capital projects to upgrade and protect Metropolitan against evolving cyber threats.
- Continued to raise security awareness and monitor compliance with mandatory Cybersecurity Awareness Training.
- Participated as a member of an advisory board for the Southern California Cybersecurity Symposium.
- Staff continued to evaluate and test cybersecurity products to determine performance and effectiveness within Metropolitan's computing environment. The evaluation of tools/innovation include software (mobile device management), processes (multi-factor authentication), and hardware (encrypted USB key / thumb drive).



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ADMINISTRATIVE SERVICES SECTION

CORE BUSINESS: Business Processes

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

Objective: Innovate and promote sustainability efforts in business practices including, Our Legacy E-Newsletter, the Rideshare program, energy conservation, and recycling efforts.

There will be continued access to the existing Electric Vehicle charging stations on the PI level of the parking garage during the Seismic Upgrade project. Rideshare Services, along with Engineering Services, and Facilities led an effort to move three existing and add two new dual charging stations to a non-impacted, adjacent section of PI.

Miscellaneous

The Warehouse Team provided assistance in support of emergency repairs to the Santa Monica Feeder (water delivery pipeline) leak in Beverly Hills. The Warehouse Team worked with Engineering Services and Maintenance Support to ensure that critical material and supplies were available for the repair.

Administrative Services staff attended the annual 2019 conference sponsored by the California Association of Public Procurement Officials, Inc. (CAPPO). CAPPO is a nonprofit organization dedicated to maintaining the highest standards of professional public procurement. Administrative Services Manager Moty Torres delivered a presentation on the subject of Request for Proposals and Qualifications. Metropolitan received an Achievement of Excellence in Procurement Award during the ceremony segment of the event. Metropolitan has received this award for 12 consecutive years. *(see photo below)*

The Administrative Services Section established a one-stop shop landing page on the Intranet that offers information on all its services from a single location. The landing page streamlines information and improves customer service by establishing a gateway to the variety of services offered by Administrative Services. *(see image below)*

Employees Philippa Romeo and Adrian Brown receiving the Excellence in Procurement Award on behalf of Metropolitan



Administrative Services display on internal employee website



BAY-DELTA INITIATIVES GROUP

GM STRATEGIC PRIORITY: Ensure Imported Supply Reliability

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

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

Joint Powers Authorities

Both the Delta Conveyance Design and Construction Authority (DCA) and the Delta Conveyance Finance Authority (Finance Authority) held meetings on January 17, 2019. The DCA authorized extending the contract with Hallmark Group for transition-related project management services as the DCA seeks an Executive Director and Program Manager. The Finance Authority Board unanimously approved membership for the Coachella Valley Water Agency. The Finance Authority now includes 11 agencies representing approximately 68 percent of South of the Delta State Water Project Table A contract amount.

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

The Salmon Predation Study funded by a California Department of Fish and Wildlife grant and Metropolitan was completed this month. The study findings suggest that for a commonly occurring predator in the Delta, largemouth bass, there were significant increases in predation of juvenile salmon due to interactions with submerged aquatic vegetation. Both largemouth bass and submerged aquatic vegetation are common in the Delta, and these study results may inform possible management actions that could benefit Chinook salmon survival. Staff is working with the investigators to complete a draft manuscript for publication.

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: LONG-TERM DELTA ACTIONS—Regulatory, Planning, and Legislative Support

Staff worked with the Department of Water Resources to film a short documentary video on the California EcoRestore initiative to highlight the value of and purpose of this large restoration effort and the benefits it will bring to the Delta. The video will be highlighted on the DWR website. Metropolitan supports the EcoRestore effort, and staff is working with state and federal agencies to use science to develop projects that focus on restoring habitat function and process to support fish and wildlife species.

BAY-DELTA INITIATIVES GROUP

CORE BUSINESS: Bay-Delta Solutions continued...

Objective: NEAR-TERM DELTA ACTIONS—Science Development

Staff is participating in the Interagency Ecological Program Flow Alteration Project Work Team analyzing the data collected during the 2017 fall outflow studies focused on Delta smelt. The fall outflow studies investigated the hypothesis that wet year conditions would improve population numbers for Delta smelt. Initial findings of the study suggest that despite the wet year conditions of 2017, an increase in the population of Delta smelt was not observed. Higher than average temperatures in the summer and fall of 2017 have been suggested as the reason for why the population of Delta smelt did not improve.

Staff continued participating in the Collaborative Science and Adaptive Management Program (CSAMP), including participation on the Collaborative Adaptive Management Team (CAMT). In January, CAMT received an update on the development of the Delta Smelt Science Plan and discussed comments and next steps for the process. CAMT also discussed a proposal from consultant Compass Resource Management Ltd. for a comprehensive and collaborative structured decision-making process for Delta smelt actions. The 2019 work plan for CAMT includes focus on these two Delta smelt processes.

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

Delta Flood Emergency Management Plan

Department of Water Resources executive briefings on the final Delta Flood Emergency Management Plan (DFEMP) have been completed and DFEMP documents are being circulated for final approval. DWR conducted a management level tour of completed emergency materials storage sites at Rio Vista and Stockton. Stockpiles and inventories include 535,000 tons of rock and other flood fight materials housed in existing and recently rehabilitated warehouses. Two new water access rock-loading facilities have been built at Stockton, and access is available to existing rock loading facilities at Rio Vista. These facilities support barge transport of rock to emergency operations in the Delta.

CHIEF FINANCIAL OFFICER GROUP

CORE PRIORITY: Business Continuity

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

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

- Conducted a kickoff meeting with Information Technology for the upcoming business user application recovery exercise. Identified test scope, objectives, and logistics. Looking forward to a successful test in the recently upgraded Lake Mathews data center.
- Reviewed Supervisory Control and Data Acquisition contingencies during the upcoming business user recovery test. More discussion to follow.
- Set up a web-based SharePoint site to allow for collaborative tracking and monitoring of test activities.

CHIEF FINANCIAL OFFICER GROUP

CFO STRATEGIC PRIORITY: Maintain Strong Financial Position

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

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

The Risk Management Unit completed 61 incident reports communicating instances of Metropolitan property damage, liability, workplace injuries, regulatory visits, and spills.

Risk Management completed 62 risk assessments on contracts, including professional service agreements, construction contracts, entry permits, special events, and film permits.

CORE BUSINESS: Manage Finances for Long-Term Stability and Sustainability

Metropolitan received the Distinguished Budget Presentation Award for its current biennial budget from the Government Finance Officers Association.

CORE BUSINESS: Financial Management

Manage Metropolitan's finances in an ethical and transparent manner and provide consistent, clear, and timely financial reporting.

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.

Accounts Payable processed approximately 3,700 vendor invoices in December 2018 and took advantage of approximately \$11,500 in discounts. Total water transactions through December 2018 were 869.5 thousand acre-feet, which was 3.8 TAF higher than budget. This translates to \$711.0 million of water revenues, which is \$8.2 million lower than budget.

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

December 2018: Federal Funds Rate: 2.40% SIFMA Index: 1.71% 1 Month LIBOR: 2.50%

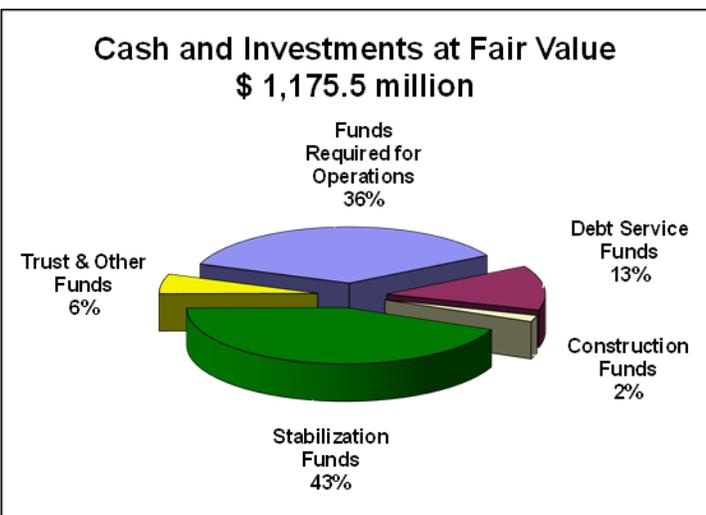
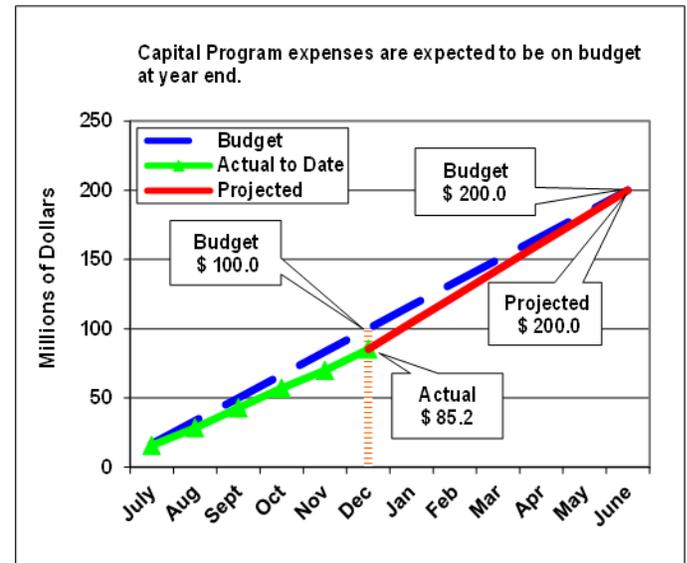
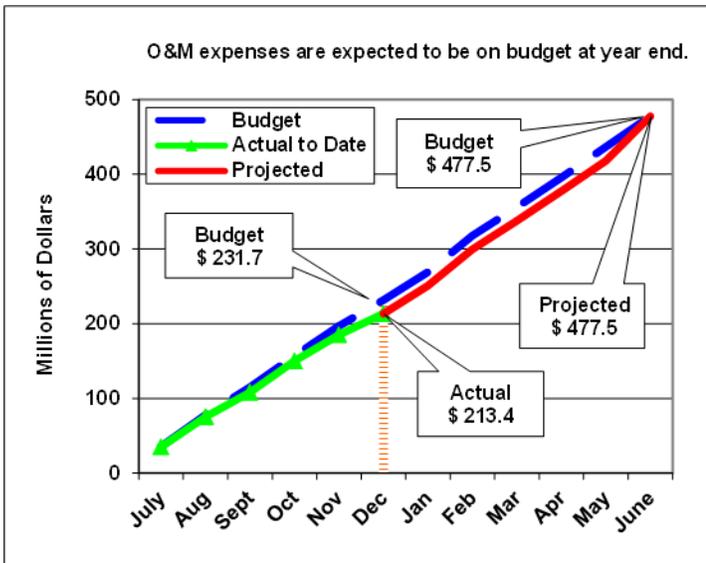
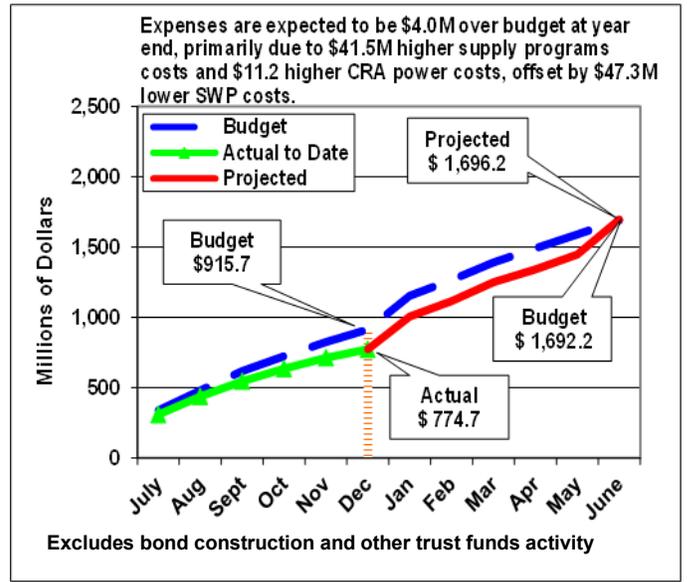
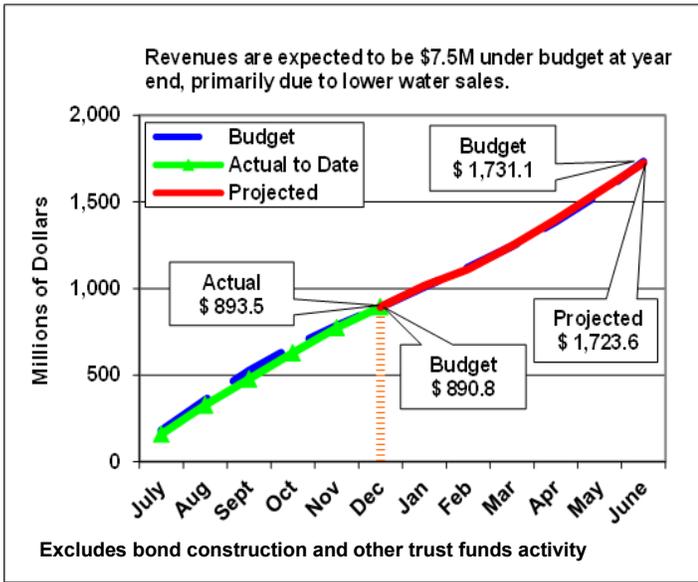
In August 2018, Metropolitan entered into a Note Purchase and Continuing Covenant Agreement with Bank of America, N.A. (the 2018 BANA Agreement) to provide gap funding for costs related to California WaterFix. On December 3, 2018, Metropolitan drew \$7.8 million on the 2018 BANA Agreement.

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

As of December 31, 2018, the balance in Metropolitan's investment portfolio was \$1.12 billion; for the month of December 2018, Metropolitan's portfolio managers executed 98 trades.

During the month of December 2018, Treasury staff processed 1,457 disbursements by check, 14 disbursements by Automated Clearing House (ACH), and 72 disbursements by wire transfer. Treasury staff also processed 92 receipts by check, 36 receipts by ACH, and 38 receipts by incoming wires and bank transfers.

FINANCIAL SUMMARY AS OF NOVEMBER 30, 2018



Summary Financial Statistics

	Target	Year-End Projected
Fixed Charge Coverage	≥ 1.20 x	1.41 x
Revenue Bond Coverage	> 2.00 x	1.59 x
Revenue Bond Debt / Equity Ratio	< 100.0%	61.5 %

Senior Lien Revenue Bond Credit Ratings

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

ENGINEERING SERVICES GROUP

GM STRATEGIC PRIORITY: Enhance Infrastructure Safety, Security and Resiliency

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

Distribution System Reliability Program

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

- Jensen Finished Water Reservoir No. 2 Cover Replacement—This project replaces the floating cover and liner at the Jensen plant's Reservoir No. 2 and improves the existing inlet configuration for the reservoir. Preliminary design is 82 percent complete and is scheduled to be complete by June 2019.
- Mills Finished Water Reservoir Rehabilitation—This project rehabilitates the Mills plant's two finished water reservoirs, including replacement of the floating covers and liners, refurbishment or replacement of existing shutoff gates, installation of a new drop gate, and installation of enhanced security features. Preliminary design is 82 percent complete and is scheduled to be complete by June 2019.
- Valley View Hydroelectric Power Plant Rehabilitation—This project refurbishes deteriorated components of the generator at Valley View Hydroelectric Plant and rehabilitates auxiliary systems at the facility. Rehabilitation is proceeding in two stages: Stage 1 performs immediate repairs to the generator to enable the plant to return to operation, and Stage 2 will address long-term improvements needed for auxiliary systems at the plant. The Stage 1 work is 78 percent complete and is scheduled to be complete by April 2019. Preliminary design of the Stage 2 improvements is 30 percent complete and is scheduled to be complete by July 2019.
- Yorba Linda Hydroelectric Power Plant Completion Project—This project fabricates and installs an enclosure for rain protection for the plant generator, procures spare parts, and upgrades various facility subsystems. Final design is 20 percent complete and is scheduled to be complete by December 2019.
- Red Mountain Hydroelectric Plan—This project refurbishes and/or replaces the turbine's mechanical components. Final design is 35 percent complete and is scheduled to be complete by May 2019.
- Lake Mathews Wastewater System Replacement—This project replaces the on-site wastewater collection system and connects the new system to a nearby municipal sewer line. Final design is 50 percent complete and is scheduled to be complete by June 2019.
- Service Connections CB- 12&16 Valve Replacement—This project replaces two service connection valves on the Rialto Pipeline. Construction is 70 percent complete and is scheduled to be complete by June 2019.
- Lake Perris Seepage Water Conveyance Pipeline—This project installs a 3,100 foot-long, 24-inch diameter pipeline to convey Lake Perris seepage water to the Colorado River Aqueduct. Preliminary design is 20 percent complete and is scheduled to be complete by May 2019.
- Wadsworth Pumping Plant Yard Piping Lining Repairs—This project replaces the existing deteriorated coating within the yard piping at Wadsworth Pumping Plant. Construction is 36 percent complete and is scheduled to be complete by April 2019.
- Orange County Feeder Lining Repairs—This project replaces the deteriorated internal lining along an 11-mile portion of the Orange County Feeder within the cities of Santa Ana, Costa Mesa, and Newport Beach. Construction of Reach 1 is complete. Construction of Reach 2 is 10 percent complete. Final design for the remaining two reaches is 72 percent complete and is scheduled to be complete by September 2019.
- Service Connection A-06 Meter Replacement—This project rehabilitates a service connection on the East Orange County Feeder No. 2. Final design is 60 percent complete and is scheduled to be complete by April 2019.
- Orange County Region Service Center—This project constructs a new 12,000 sq. ft. permanent service center for the Orange County operating region. The existing service center was removed in 2008 to provide space for the Oxidation Retrofit Project construction. Existing temporary facilities, installed at that time, consist of three construction trailers for staff, four shipping containers for equipment, and an old warehouse for shop fabrication. Construction is 29 percent complete and is scheduled to be complete by December 2019.

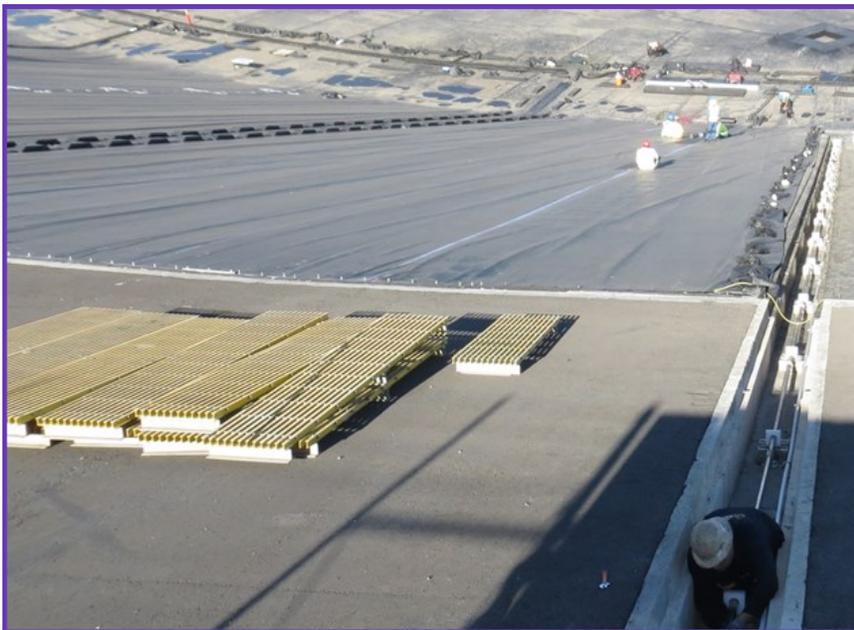
ENGINEERING SERVICES GROUP

GM STRATEGIC PRIORITY: Enhance Infrastructure Safety, Security and Resiliency

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

Distribution System Reliability Program continued...

Palos Verdes Reservoir Rehabilitation—This project replaces the reservoir’s existing floating cover and liner, and modifies the existing spillway, control tower, and outlet structures. Construction is 95 percent complete and is scheduled to be complete by February 2019. *(see photos below)*



Palos Verdes Reservoir Rehabilitation - Installation of valve actuator shafts and supports

Service Connections CB – 12&16 Valve Replacement – New 48 inch butterfly valve and actuator



ENGINEERING SERVICES GROUP

GM STRATEGIC PRIORITY: Enhance Infrastructure Safety, Security and Resiliency

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

Prestressed Concrete Cylinder Pipe (PCCP) Reliability Program

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

- Second Lower Feeder PCCP Rehabilitation—This project rehabilitates the remaining 28 miles of PCCP segments within the Second Lower Feeder. Long-term rehabilitation of the Second Lower Feeder will be staged over a period of eight to ten years, with multiple construction and procurement contracts. The scope of the second construction contract for Reach 4 includes lining approximately 2 miles of existing PCCP segments with a steel liner. Construction for Reach 4 is 10 percent complete and is scheduled to be complete by November 2019. Final design of Reach 2 was completed and a request to the Board for award of construction is planned for April 2019. Final design of Reach 3 is 85 percent complete and is scheduled to be complete by April 2019.
- Second Lower Feeder Pipe Fabrication—Fabrication of steel liner pipe for Reaches 2 and 4 is underway and will provide approximately

21,100 feet of 75-inch-diameter welded steel liner pipe. Pipe fabrication is 45 percent complete and the initial delivery of pipe for Reach 4 is scheduled to be complete by January 2019.

- Second Lower Feeder Shutoff Valve Procurement—This contract provides 216 shutoff valves that will replace deteriorated valves along the length of the Second Lower Feeder. These valves range in diameter from 4 inches to 16 inches, and are used to control and isolate flow at air release/vacuum valve locations, dewatering vaults, and blowoff structures. The first 150 valves were received and inspected and are in protective storage. The remaining 66 valves will be delivered by September 2019.
- Sepulveda Feeder, Calabajas Feeder, Rialto Pipeline, and the Allen-McColloch Pipeline—These projects rehabilitate the four other priority PCCP lines. Preliminary design activities for the four priority lines are being conducted simultaneously and are 12 percent complete and scheduled to be complete by mid-2020.
- Sepulveda Feeder Urgent Relining—The scope of the construction contract includes lining approximately 400 feet of existing PCCP segments with a steel liner along Del Amo Blvd in the city of Torrance. Construction is 85 percent complete and is scheduled to be complete by February 2019.

Colorado River Aqueduct (CRA) Reliability Program

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

- Employee Housing Rehabilitation—These projects perform comprehensive improvements to Metropolitan-provided employee housing at the CRA pumping plants. Project No. 1 constructs 10 new houses: two each at Hinds, Eagle Mountain, and Gene; and four houses at Iron Mountain. Construction was completed in June 2018. Project No. 2 refurbishes 89 houses that require minor or moderate levels of renovation. The initial

construction is focusing on 11 houses under a pilot program. This pilot program work is 85 percent complete and is scheduled to be complete by April 2019.

- Intake Power Line and Communication Replacement—This project relocates a power transmission line that serves Intake Pumping Plant and several remote CRA facilities. Construction is 18 percent complete and is scheduled to be complete by September 2019.
- CRA UPS Replacement—This project replaces the uninterruptible power supply (UPS) systems at the five CRA pumping plants. Each plant has a UPS system to prevent fluctuations in power quality and

ENGINEERING SERVICES GROUP

GM STRATEGIC PRIORITY: Enhance Infrastructure Safety, Security and Resiliency

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

to serve as a backup in case of loss of power. Construction is 20 percent complete and is scheduled to be complete by November 2019.

- **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 60 percent complete and is scheduled to be complete by March 2019. Final design of Stage 2 to replace the remaining seven gates is 85 percent complete and is scheduled to be complete by April 2019.
- **CRA Cranes Rehabilitation**—This project replaces the overhead crane systems within each pump house and the portable pump-bay crane systems, including bridges, trolleys, hoists, drive trains, and system controls. Final design is 48 percent complete and is scheduled to be complete by August 2019.

Treatment Plant Reliability Program

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

Diemer Plant

- **Diemer Filter Outlet Conduit Seismic Upgrade Project.** This project constructs seismic restraints for the Diemer Filter Outlet Conduit. Construction is 97 percent complete and is scheduled to be complete by July 2019.
- **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 seven percent complete and is scheduled to be complete by December 2020.

Mills Plant

- **Electrical Upgrades, Stage I.** This project replaces electrical equipment, provides backup in the event of individual component failures, and upgrades the Mills electrical system to be consistent with current codes and industry practices. The work will be completed in three stages. Construction of Stage I is 47 percent complete and is scheduled to be completed by June 2019.

Weymouth Plant

- **Weymouth West Washwater Tank Seismic Upgrades.** This project performs seismic strengthening and refurbishment of the west washwater tank at the Weymouth plant. Construction is 35 percent complete and is scheduled to be complete by May 2019. *(see photo below)*



F. E. Weymouth Water Treatment Plant, West Washwater Tank Seismic Upgrades – Installation of lower seismic ring

ENGINEERING SERVICES GROUP

GM STRATEGIC PRIORITY: Maximize Local Resources

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

Regional Recycled Water Program

- **Advanced Water Treatment Demonstration Plant**—This project constructs a 0.5 mgd demonstration facility on the grounds of the Los Angeles County Sanitation District’s Joint Water Pollution Control Plant in Carson. The demonstration facility will collect data for regulatory acceptance of the proposed process train for a full-scale recycling plant and will enable testing that will optimize the treatment process. Construction is complete and the contractor is now starting the contract-required testing and commissioning of the facility. It is anticipated that the contractor will complete all of its required activities and turn over the facility to Metropolitan in March 2019.
- **Conceptual Planning Studies**—This work effort builds upon the findings of the 2016 Feasibility Report. The current studies include the development of approaches to implementing a potential full-scale Regional Recycled Water Program. The studies and accompanying report are approximately 95 percent complete and are anticipated to be distributed to the Board in the first quarter of 2019. (*see photos below*)



Advanced Water Treatment Demonstration Plant – Installing canopy over the process equipment

Advanced Water Treatment Demonstration Plant - Testing of the aeration basin equipment



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

- Coordinated with US Bureau of Reclamation (USBR) for release of joint Environmental Assessment/Negative Declaration to convert 635 acres of agricultural land into conservation habitat consistent with the Lower Colorado Multi-Species Habitat Conservation Plan.
- Conducted biological survey and jurisdictional delineation for Reach 9 of the PCCP Second Lower Feeder Reliability Program.
- Completed biological, cultural, and paleontological reports in support of PCCP Sepulveda Feeder.

Regulatory Permitting Support and Compliance

- Submitted a California Department of Fish and Wildlife Streambed Alteration Agreement notification for dewatering discharges associated with the Box Springs Feeder shutdown and a CDFW SAA amendment request for dewatering discharges associated with the San Diego Canal shutdown.
- Worked with Engineering and consultant staff to develop required plans and revise project drawings to meet pre-issuance conditions and obtain permit from the California Coastal Commission for the Orange County Feeder Blow-off Repair project.
- Submitted revised emergency notifications to CDFW, U.S. Army Corps of Engineers, and Regional Water Quality Control Board and continued regulatory agency coordination in support of emergency repairs to the Colorado River Aqueduct due to storm damage. *(see photo below)*
- Submitted status reports to CDFW for Cajalco Creek Dam and Detention Basin and Lake Mathews Long-Term Routine Maintenance.



Environmental staff monitored CRA Emergency repairs at Site 10: Heavy equipment work to repair damaged protective berm.

ENVIRONMENTAL PLANNING SECTION

GM STRATEGIC PRIORITY: Maximize Local Resources

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

Objective: Provide planning, CEQA/NEPA, and regulatory permitting support for supplemental water supplies and water conservation measures.

Completed environmental section for the draft conceptual report for the Regional Recycled Water Program.

GM STRATEGIC PRIORITY: Promote Environmental Stewardship and Sustainability

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

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

Southwestern Riverside County Multi-Species Reserve (MSR)

- At the December meeting, the Reserve Manager (Riverside County Parks) reported on management activity in the MSR in accordance with the annual work plan, including (a) weed management, (b) reserve patrol, (c) maintenance, and (d) interpretive programming.
- The Reserve Management Committee approved Metropolitan's proposal to include a trail along San Diego Canal and a second interpretive trail option at Lake Skinner.

Objective: Identify current greenhouse gas (GHG) reduction measures and climate change planning and adaptation efforts underway throughout the organization for the purpose of developing a Metropolitan Climate Action Plan (CAP).

- Led Climate Action Plan (CAP) Working Group kickoff meeting with consultant to discuss data needs for the development of a comprehensive emissions inventory. Began data collection efforts with Engineering Services, Water Resource Management, Administrative Services, and External Affairs.
- Adopted CAP logo and began development of a webpage that will be accessible from Metropolitan's Water Tomorrow website.

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

- Began mapping of known resources along 19 pipelines in Los Angeles County.
- Provided cultural resource guidance for the Second Lower Feeder and the Sepulveda Feeder for the PCCP Reliability Program.

ENVIRONMENTAL PLANNING SECTION

CORE BUSINESS: Business Processes

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

CEQA Clearances

- Provided environmental planning clearances for 2 Water System Operations projects, 8 Real Property actions, and 12 board letters.

Construction Monitoring

- Completed construction monitoring for the Whitewater Colorado River Aqueduct Erosion Protection Project. Prepared and submitted project completion reports to regulatory agencies.

EXTERNAL AFFAIRS GROUP

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

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

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

More than 300 elected officials, community leaders, water agency representatives, friends, and family attended Metropolitan's Board meeting to see Director Gloria D. Gray sworn in as Metropolitan's new Chairwoman by Inglewood Mayor Butts. Several dignitaries spoke at the board meeting, including Los Angeles Mayor Garcetti, San Diego Mayor Faulconer, Los Angeles District Attorney Lacey, City of Los Angeles Council President Wesson, California Assemblywoman Friedman, Chairman of the Delta Stewardship Council Board Fiorini, and Los Angeles County Assessor Prang. Other water agency officials and Metropolitan employees representing American Federal of State, County, and Municipal Employees and employee resource groups spoke during a reception following the Board meeting. (January 8)

EXTERNAL AFFAIRS GROUP

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

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

Federal

Metropolitan staff made introductory contact with five new House members of the 116th Congress who were elected to represent Congressional districts within Metropolitan's service area. (January 3-4)

Director Ackerman and Metropolitan staff participated in the National Water Resources Association annual leadership conference in Arizona. (January 9-11)

State

On January 7, Governor-elect Gavin Newsom was sworn in as California's 40th governor. In his inauguration speech, he laid out a "California for All" message and outlined high-level policy and program priorities. Those priorities were reflected in the Governor's proposed \$209 billion budget.

In natural resources program areas, Governor Newsom proposes to renew focus on providing safe and affordable drinking water through investments in the Safe Drinking Water Program.

Gubernatorial Appointments

Governor Newsom named Jared Blumenfeld as the state's Environmental Protection Agency Secretary, Karen Ross as Department of Food and Agriculture Secretary, and Wade Crowfoot as the Natural Resources Agency Secretary.

Key Committee Assignments

Senate President pro Tempore Atkins (D-San Diego) announced Senate leadership positions and committee assignments. Senator Hertzberg (D-Los Angeles) was named as Senate Majority Leader, Senator Stern (D-Calabasas) as Chair of the Senate Natural Resources and Water Committee, and Senator Jones (R-Santee) as Vice Chair. Six of the nine committee members represent districts in Metropolitan's service area.

Assembly Speaker Rendon (D-Lakewood) also made committee assignments. Assemblymember Garcia (D-Coachella) and Assemblymember Gallagher (R-Yuba City) will remain as Chair and Vice Chair for the Assembly Water, Parks and Wildlife Committee. Five of the 14 committee members represent districts in Southern California. Assemblymember Friedman (D-Glendale) will chair the Assembly Natural Resources Committee and Assembly Member Flora (R-Modesto) will serve as Vice Chair.

Local

- Staff joined with 95 city council members and city staff in the California Contracting Cities Annual Sacramento advocacy trip to discuss issues impacting Southern California. The delegation met with 60 state legislators during the advocacy trip. (January 6-9)
- Staff attended Valley Industry Commerce Association After Dark reception with Assemblymember Rivas (D-Arleta). The Mayor of San Fernando and more than 50 business leaders from the San Fernando Valley also attended. (January 10)
- Staff attended a Los Angeles County Business Federation (BizFed) Roundtable with Assemblymember Rivas (D-Arleta). (January 11)
- General Manager Kightlinger, Assistant General Manager Zinke, and staff met with John Hakel, Executive Director for the Southern California Partnership for Jobs (SCPFJ), and several of his board members. The SCPFJ

EXTERNAL AFFAIRS GROUP

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

Objective: LEGISLATIVE SERVICES continued...

- represents 2,750 construction firms who employ more than 90,000 union workers in Southern California. (January 14)
- Chairwoman Gray, Directors Gold and Murray, General Manager Kightlinger, Assistant General Manager Zinke, and staff attended the Los Angeles City Council meeting and reception at which Chairwoman Gray was honored for her new leadership role at Metropolitan. Councilmember Koretz presented the Chairwoman with a certificate recognizing her achievements. (January 18)
- Staff attended the BizFed annual board meeting and installation ceremony. Representatives from more than 75 business organizations participated. (January 22)
- Staff and business leaders from the Valley Industry Commerce Association traveled to Sacramento to meet with legislators on topics that impact businesses within the San Fernando Valley, including water supply reliability. (January 23)
- Directors Barbre and Dick and Metropolitan staff attended and sponsored the Association of California Cities Orange County’s annual legislative trip to Washington, DC and briefed members of Congress, staff members and representatives from the U.S. Bureau of Reclamation on water and other policy issues of concern to the region. (January 27-29)
- Metropolitan staff attended Oxnard Chamber of Commerce annual installation ceremony. More than 100 business leaders and local elected officials attended the event. (January 31)
- Chairwoman Gray and staff attended and sponsored the Los Angeles Area Chamber of Commerce 2019 Inaugural Dinner, which welcomed incoming board chair Jerold Neuman and recognized Magic Johnson and Dr .Patrick Soon-Shiong, owner of the Los Angeles Times. Chairman Gray was also recognized at the event for her leadership role at Metropolitan. (January 31)

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

Social Media Activities

- New social media posts to promote rebates reached 200,000 people. Of particular note, the landscape transformation posts promoting native plants directed more than 1,500 viewers to the bewaterwise.com site. (see photo right)
- The Spanish and Chinese language bewaterwise.com websites are fully translated and live. More than 44,000 users visited the bewaterwise.com websites.
- Tweets posted on Chairwoman Gray’s inauguration received high engagement and nearly 15,000 organic reach/impressions.

Communication Activity

Issued statement from General Manager Kightlinger in support of proposed voluntary settlement agreements to enhance flows and habitat restoration in the Sacramento and San Joaquin river watersheds.



EXTERNAL AFFAIRS GROUP

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

Objective: MEDIA AND COMMUNICATIONS continued...

Media Activities and Interviews

- Partnered with city of Beverly Hills officials to hold a series of emergency press conferences to address emergency repairs to a leak in Santa Monica Feeder. Water System Operations Manager Green participated. Staff also provided media support and produced a video on the work.
- Arranged interviews with Chairwoman Gray regarding her new position as chairwoman with *Bloomberg Environment* reporter Emily Dooley, *Los Angeles Sentinel* reporter Cora Jackson-Fossett, and *Municipal Water Leader Magazine* reporter Kris Polly.
- In response to high media interest in Colorado River issues, the drought contingency plan and Metropolitan's announcement to begin Intentionally Created Surplus withdrawals from Lake Mead, staff arranged interviews with Politico reporter Debra Kahn, *Voice of San Diego* reporter Ry Rivard, *Cronkite News* reporter Ivan Cazares, and *Nevada Independent* reporter Daniel Rothberg.
- Set up interviews between General Manager Kightlinger and *Los Angeles Times* reporter Bettina Boxall regarding coordinated operating agreements for the State Water Project and Central Valley Project, and proposed voluntary settlements agreements for the Stanislaus, Tuolumne, and Merced rivers.
- Coordinated interviews with Water Resource Management Manager Coffey and KPCC's *All Things Considered* and *Morning Edition* shows on the board-approved pilot program to increase toilet rebate in multi-family residential buildings.
- Arranged an interview between Bay-Delta Initiatives Manager Arakawa and *Marysville Appeal-Democrat* reporter Jack Abbott on Sites Reservoir funding.

Press Releases

- Metropolitan Investment in Future Development of Local Water Supplies
- Installation of Chairwoman Gray

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.

- Provided outreach to local residents and businesses in the city of Rolling Hills on the work on the Second Lower Feeder in order to bring the Palos Verdes Reservoir back into operation. (January 4)
- Manager of Colorado River Resources Hasencamp provided a Colorado River Update for the Orange County Business Council. (January 8)
- Conducted outreach to the local community near three worksites for the Second Lower Feeder Prestressed Concrete Cylinder Pipe relining project in Long Beach, including notices to 300 residences and briefing residents who will be impacted during the construction. (January 8-9)
- Met with representatives of China's Water Ministry and World Wildlife Fund to discuss strategic water management. (January 10)
- Met with the city of Rolling Hills staff and community members to discuss tree and vegetation removal from the dam at the Palos Verdes Reservoir. (January 10)
- Participated in meetings with Caltrans District 7 senior management to coordinate for upcoming Prestressed Concrete Cylinder Pipe relining projects for the Second Lower Feeder, including Reach 9 along the 710 and 405 freeways and Reach 3 with several worksites on Western Ave. (January 10)
- Met with the Member Agency managers to discuss water operations and supply conditions, proposed changes to conservation and rebate programs, and the proposed water bank program with Antelope Valley-East Kern Water Agency.

EXTERNAL AFFAIRS GROUP

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

Objective: PUBLIC OUTREACH AND MEMBER SERVICES - Conduct public outreach to increase awareness and input on Metropolitan projects and initiatives and ensure impacted communities are aware of Metropolitan construction and maintenance activities.

- Provided notices to 350 residences in Santa Clarita regarding the Foothill Feeder Shutdown scheduled for February 2019. (January 22)
- Notified residents at The Mozaic at Union Station regarding upcoming construction activities for Metropolitan’s Headquarters Building Improvement Project. (January 23)
- Presented to the South Coast, Santa Ana Memorial Park, Bristol Warner, and Thornton Park neighborhood associations regarding the upcoming Orange County Feeder Relining Project. (January 16, 18, 29)
- Conducted four inspection trips to the Colorado River Aqueduct for directors and educators. (January 4-6, 11-12, 15-17, 18-19)

Objective: EDUCATION AND COMMUNITY RELATIONS - Facilitate public engagement in and understanding of water resource issues through community relations activities and education projects.

General Education

Thirty teachers from throughout Metropolitan’s service area participated in a tour of the Colorado River Aqueduct system and received hands-on instruction on water education curriculum. The annual tour for educators introduces teachers to Metropolitan’s water distribution system. *(see photo below)*

Event Sponsorships and Community Partnering Program

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

- The California Endowment for the Del Amo Action Committee (January 22)
- BOSS Showcase – ESP Education & Leadership Institute (January 25)
- San Diego Bird Festival – San Diego Audubon Society (January 27)
- VerdeXchange Green Marketmakers Conference (January 27-28)

Diamond Valley Lake Education Program

Metropolitan staff hosted nearly 535 visitors at the Visitor Center and guided more than 350 visitors to the Clayton Record Viewpoint.

Teachers from throughout Metropolitan’s service area participated in a tour of the Colorado River Aqueduct system.



EXTERNAL AFFAIRS GROUP

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

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

- Metropolitan's Business Outreach manager presented an overview of "How to be Competitive in the Government Market" to the Orange County Disabled Veteran Alliance organization. (January 15)
- Staff evaluated 12 water technology fast pitches and introduced the Innovation Program to 40 water innovation exhibitors and 150 attendees at the Los Angeles County Public Works Water Technology Demonstration Day. (January 17)
- Staff presented Metropolitan's Capital Investment Plan program to the Orange County Business Development Association. (January 23)
- VerdeXchange and the Global Cleantech Forum invited Metropolitan staff to participate in matchmaking with 100 startups in areas ranging from energy, agriculture, water, transportation, and smart cities. (January 29)
- Metropolitan staff attended the Filipino American Chamber of Commerce appreciation luncheon to recognize partners who have supported the chamber. (January 30)
- Staff sponsored and attended the annual Construction Management Association of America event with more than 800 attendees. (January 31)

HUMAN RESOURCES

GM STRATEGIC PRIORITY: Foster Leadership and Strengthen Workforce Capabilities

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

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

The fourth cohort of the Water System Operations Management Academy was launched at the Headquarters Building, which included a "C-Suite" leadership panel discussion with Marcia Scully, Jim Green, Tobin Tellers, and June Skillman. *(seated in photo right)*



HUMAN RESOURCES

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

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

- Staff facilitated MWD Management Academy on topics of Recruitment and Interviewing at the Jensen facility.
- Coaching sessions on Preparing for Job Interviews were conducted for three employees.

Staff delivered classes on the following topics:

- PowerPoint Creating and Designing Slides Workshop
- Excel Formulas-Functions-Expressions Workshop
- Word Advanced Features Workshop
- Visio Beginning
- Excel Beginning
- One Note Workshop
- PowerPoint Beginning
- Managing Emotions in the Workplace
- Effective Presentations
- Conflict to Collaboration

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

Launched the Ethics Officer and Chief Financial Officer recruitment using an outside recruitment firm.

Recruitment filled 25 positions for the month of January and received 23 new staffing requisitions, resulting in 152 positions currently in recruitment.

HR PRIORITY: Provide Excellent Human Resources Services

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

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

The new MyJobs (iCIMS Recruitment System) went live this month. The new system provides an enhanced hiring manager and candidate experience. The Careers page on Metropolitan's website was updated to reflect these improvements. This enhancement also provides the opportunity to post videos and update pictures to keep potential candidates interested in opportunities. In tandem with this recruitment system deployment, Classification/Compensation, with the assistance of Information Technology and External Affairs, added access to job descriptions on the career webpage. This enhances individuals' access to Metropolitan job descriptions, and improves ease and efficiency in responding to salary survey requests from other agencies.

HUMAN RESOURCES

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

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

Metropolitan was awarded Platinum and Gold for the 2018 MarCom Award for plan participant strategic communications and print creativity. The MarCom Award is for excellence in marketing and communications of deferred compensation 401(k) and 457(b) plans. The transition guide, communications, and seminars that were conducted to administer the transition from TIAA Financial to Empower Retirement were submitted and won the two awards. The Award Trophies will be presented at the February 20, 2019, Deferred Compensation Advisory Committee meeting by Empower Retirement.

HR PRIORITY: Ensure Effective People Management

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

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

- Staff facilitated the capstone for Metropolitan Management University Cohort 7 Team Managers, which included a computer-based virtual learning simulation that focused managers on engaging virtual employees through critical conversations. The day concluded with a graduation ceremony for four Team Managers. *(see photos below)*
- Cohort 8 of the Metropolitan Management University Leadership Development Program began for 15 new Team Managers. The initial session covered policy and compliance and a variety of topics, including recruitment and selection, risk management, and equal employment opportunity.
- Staff facilitated team building activities for the Water System Operations Business Support Team, the Operations and Maintenance Team, and the Operation Support Services Team at La Verne and Lake Mathews.
- Staff conducted one-on-one management development coaching sessions for 11 managers.



Online simulation Capstone Management Challenge session -- preparing frontline managers for delegation, recognition and decision-making.

Four Team Managers completed Metropolitan Management University



HUMAN RESOURCES

CORE BUSINESS: Prepare to Meet Challenges of Future Workforce Changes

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

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

- Completed drafting the Non-Discrimination Plans for Executive Management review and approval.
- Implemented a new Workplace Harassment Prevention training for all managers.

CORE BUSINESS: Comply with Employment Laws and Regulations

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

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

Human Resources is currently conducting an overall assessment of its Workers' Compensation function, to ensure it is functioning in accordance with best practices.

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

- Submitted 5 new claims to Metropolitan's workers' compensation claim administrator
- Arranged 33 medical evaluations (DMV, medical surveillance, hearing conservation, etc.)
- Addressed 3 accommodation issues.
- Coordinated 3 Medvan visits for Diemer and Jensen (DMV, Medical Surveillance, Hearing Test)

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

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

Headquarters Wi-Fi (Low-Rise) Project—This project scope is to design and install network equipment (i.e., switches) and WiFi infrastructure within the five-floor wing portion of the Headquarters Building to support staff relocation. In January, a competitive Request for Bid was completed for wireless equipment as part of the procurement process. Upon delivery of this equipment, IT will begin assembling and configuring the hardware needed to establish a robust wireless infrastructure.

Headquarters Improvement Program—Staff worked in collaboration with business groups on IT services in support of the Headquarters Improvement Program. Coordinated efforts between IT service providers (i.e., IT Networking, Telecommunications, Server Administration, Service Desk) and other key stakeholders necessary for relocation of staff, equipment, and technology infrastructure.

In January, IT supported the early move phase as part of relocation of selected staff on floors 2 through 6 within the high-rise building. The impact of staff relocation included PCs, phones, and ancillary equipment (network printers, plotters, local printers/scanners) and network configuration changes. Support for the early move phase was completed along with the relocation of IT staff impacted by the early move phase.

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

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

- During the period, IT conducted internal validation of new procedures based on enhanced DR architecture. This validation is a prerequisite for upcoming user-acceptance testing scheduled for March 2019.

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

- Remote Terminal Unit (RTU) Replacement Project—The scope of this project is to replace RTU field computers with an updated operating system and hardware that will improve cybersecurity protection and increase reliability with solid-state drive technology. This project is a collaborative effort by IT and Water System Operations as part of modernizing Metropolitan's operational technology and control system.
 - This project is substantially complete. Staff will initiate project closure once remaining tasks and product documents are approved.
- System-wide Control System Upgrade—This project includes replacement of Metropolitan's primary control system and is currently in the conceptual design phase. During the period, a pre-submission conference was conducted as part of Metropolitan's search for a control system that best meets hardware and software requirements.

INFORMATION TECHNOLOGY

CORE BUSINESS: Information Technology continued...

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

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

- Completed evaluation survey of user preferences of the different PC models (desktops and laptops) from tier one vendors and initiated benchmark testing of PC performance.
- Continued development of a standard Windows image for the new PCs essential to establishing computing standards consisting of the operating system, applications, hardware configuration, and security required to operate within Metropolitan's computing environment.

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

IT staff continued to install, configure, and test equipment associated with Coresite (off site datacenter) to improve network reliability and prepare for Metropolitan's migration to cloud processing. Once the infrastructure is fully tested and operational, staff will begin migration of selected applications to improve redundancy and enhance capabilities. Migration and pilot testing is schedule to begin in Q4 of this fiscal year. *(see photo right—staff installing equipment at Coresite)*



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

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

Learning Management System Replacement—This project scope is to replace the PeopleSoft Enterprise Learning Management System (MyLearning). This system is used to manage Metropolitan's training curriculum, course approvals, enrollment, and notifications.

- During the period, staff continued working with the consultant providing installation and configuration services for the new software. Initial rollout of the new cloud-based software is scheduled for end of this fiscal year.

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

- Conducted meetings with group liaisons to analyze current PCs (desktop vs laptop) along with future requirements as part of the PC Replacement Project. Initial assessment based on group feedback is expected to complete in February.
- Continued development of a standard Windows image for the new PCs essential to establishing computing standards consisting of the operating system, applications, hardware configuration, and security required to operate within Metropolitan's computing environment.

INFORMATION TECHNOLOGY

CORE BUSINESS: Information Technology continued...

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

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

- Project planning underway. Next step includes the purchase of pilot devices (hardware) to evaluate performance and function based on user requirements

REAL PROPERTY

CORE BUSINESS: Real Property Acquisition, Management and Revenue Enhancement

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

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

- An entry permit was granted to the Southern California Gas Company to allow non-exclusive access use of Metropolitan's fee-owned property as a temporary work area for the inspection, excavation, and repair of their natural gas pipeline in the city of Van Nuys, County of Los Angeles.
- A lease agreement was negotiated with the Metropolitan Transit Authority for approximately 1,205 square feet for use as a conference room. The conference room is a substitute for the large meeting spaces temporarily lost during the upcoming Headquarters Building seismic upgrade project. Scheduling for the conference room will be managed by the Real Property Group. The lease was negotiated for a period of three years from December 1, 2018 through November 30, 2021.
- A lease agreement was negotiated with the Metropolitan Transit Authority for approximately 1,550 square feet for use by Metropolitan's AFSCME tenants as general office space. The office space will be used during the Headquarters Building seismic upgrade project. The lease was negotiated for a period of three years from December 1, 2018 thru November 30, 2021.

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.

Anticipating demand for recreational pickleball, the Valley Wide Recreational District constructed courts within their lease area.

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

Two additional staff members were hired to maintain the District's housing units at Hinds, Eagle Mountain, and the DVL Visitor Center.

WATER RESOURCE MANAGEMENT

GM STRATEGIC PRIORITY: Prepare for More Extreme Hydrology

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

Objective: Prepare analyses, studies and reports on Integrated Resources Plan implementation to ensure water supply reliability under various and more extreme hydrology.

Emergency Storage Objective—Staff met with member agencies on January 31 to finalize the criteria and methodology to calculating Metropolitan's Emergency Storage Objective. The Emergency Storage Objective defines the amount of storage that Metropolitan sets aside in the event imported supply aqueducts to the region are damaged by a catastrophic earthquake. Staff will present a white paper on this subject to the Water Planning and Stewardship Committee in March.

Objective: Implement Conservation Program.

Conservation Programs Update—The Water Use Efficiency Team met with Director Dake and Los Angeles Department of Water and Power staff on Metropolitan's current and potential landscape education programs such as our California Landscape Training Class, Model Water Efficient Landscape Ordinance Workshop, and Qualified Water Efficient Landscaper Training.

CalWEP Membership—Metropolitan is advising Southern California Gas Company management on how they can become a member of the California Water Efficiency Partnership and get more involved in working with water agencies.

Plumbing Codes and Standards Discussion—Metropolitan staff attended the American Society of Mechanical Engineers A112 Meeting to discuss water efficient plumbing codes and standards.

Marketing Strategy—Water Use Efficiency Team participated with External Affairs and marketing vendor on how to promote the new Disadvantaged Community Program and proposed new Turf Removal Program.

GM STRATEGIC PRIORITY: Foster Leadership and Strengthen Workforce Capabilities

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

Objective: Promote learning and increased technical capacity of staff.

Management Academy—Resource Implementation Section staff participated in the 6th Management Academy session held at the Jensen plant. The attendees learned about the recruitment and selection processes and how to prepare for interviews

WATER RESOURCE MANAGEMENT

GM STRATEGIC PRIORITY: Ensure Imported Supply Reliability

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

Objective: Ensure a cost-effective and reliable State Water Project.

Capital and Operations and Maintenance Program—Staff participated with the California Department of Water Resources and other State Water Contractors in budget review of nearly 250 capital and Operations and Maintenance programs considered for the upcoming fiscal year. The budget review process allows Metropolitan to review and provide input on decisions related to major capital and O&M programs.

Perris Dam Seepage Recovery Project— Staff from Water Resource Management, Engineering Services, and Environmental Services coordinated with DWR and consultants to prepare a Notice of Preparation of an Environmental Impact Report for the Perris Dam Seepage Recovery Project. DWR held a public scoping meeting on January 29 near Lake Perris.

Objective: Support implementation of California WaterFix.

State Water Contract—Staff is coordinating with the General Counsel's Office in the review of proposed language to incorporate the California WaterFix into the State Water Contract.

GM STRATEGIC PRIORITY: Maximize Local Resources

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

Objective: Maintain and enhance groundwater production in Metropolitan's service area.

Groundwater Conditions in the Region—Staff gave a presentation on groundwater conditions to the Municipal Water District of Orange County Joint Board Workshop on January 2.

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

Metropolitan staff participated in the WaterReuse National Legislative and Regulatory Policy Committee meeting. The policy committee discussed the current status of federal funding, stormwater principles, and potential comments on U.S. Army Corps of Engineers Water Resource Development Act guidance and Environmental Protection Agency water reuse action plan.

Objective: Implement Local Resources Program.

Proposed Local Resource Projects—Metropolitan staff is working with San Diego County Water Authority and five of their member agencies to discuss five proposed projects in north San Diego County area. Staff has provided draft LRP agreements to three member agencies for review and comment for three projects: San Diego Pure Water Project, Central Basin Municipal Water District Recycled Water Expansion Project, and La Puente Recycled Water Project.

WATER SYSTEM OPERATIONS

GM STRATEGIC PRIORITY: Enhance Infrastructure Safety, Security and Resiliency

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

Objective: Provide Reliable Water Deliveries.

Metropolitan delivered approximately 115,000 acre-feet of water to member agencies in January. January deliveries averaged approximately 3,700 AF per day, an increase of 900 AF per day from December deliveries. Treated water deliveries for January totaled 56,000 AF, or 49 percent of total deliveries for the month. This was an increase of about 12,500 AF from December treated water deliveries. The Colorado River Aqueduct increased one pump to a 6-pump flow starting on January 3. A total of 84,000 AF of Colorado River water was pumped in January, averaging 2,700 AF per day. SWP imports averaged 1,300 AF per day, totaling

40,000 AF for January. The target State Water Project blends for the Weymouth, Diemer, and Skinner plants were zero percent for the month of January.

Metropolitan provided support to the Los Angeles Department of Water and Power in January during the annual shutdown of the Los Angeles Aqueduct Filtration Plant. To ensure reliable supplies during the 18-day plant shutdown, the Jensen plant provided an average of 600 AF per day of treated water to LADWP.

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 2018.

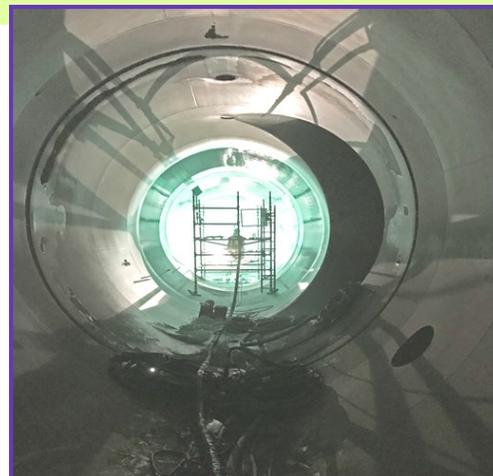
On January 30, staff met with State Water Resources Control Board Division of Drinking Water to discuss water quality compliance, regulatory, and operational issues. These regular meetings ensure rapid and effective communication between Metropolitan and the state's regulatory agency.

In accordance with Metropolitan's Quagga Mussel Control Plan and invasive species permits, quagga mussel containment training was provided to all staff that collect, handle, and analyze water samples that may contain quagga mussels or their veligers (larvae). This training ensures that Metropolitan staff activities associated with samples from the infested Colorado River Aqueduct system does not impact non-infested waterbodies.

Objective: Actively Engage in Capital Project Planning and Execution.

Staff continued work on the Wadsworth Pumping Plant Yard Piping Lining Repairs capital project. The yard piping, which varies from 54 to 192 inches in diameter, conveys water into and out of Diamond Valley Lake. Periodic internal inspections of the piping identified that portions of the original epoxy lining had failed in several sections. This capital project includes removing the failed lining and applying new polyurethane lining for approximately 2,200 feet of pipe. The project will be completed by February 2019. *(see photo right)*

Contractor relining yard piping at the Wadsworth pumping plant facility



WATER SYSTEM OPERATIONS

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

Objective: Actively Engage in Capital Project Planning and Execution. Continued...

Urgent repairs to prestressed concrete cylinder pipe on the Sepulveda Feeder in the city of Torrance were completed this month. Periodic inspection of the pipe using eddy-current technology indicated increasing wire breaks in this section that could potentially weaken the pipe. Repairs performed by a contractor involved exposing a portion of the 84-inch diameter pipe and cutting out a section to install 400 feet of welded steel liner. To facilitate this work, staff isolated and dewatered a 6.5-mile portion of the Sepulveda Feeder. During this 20-day shutdown, staff also used the opportunity to replace a 4-inch lubricated plug valve at the Sepulveda Feeder/West Basin Feeder interconnection. *(see photos below)*



Staff dewatering the Sepulveda Feeder to prepare for PCCP relining



Staff installing new plug valve on the Sepulveda Feeder

Staff continued construction of new blow-off and discharge piping for the Palos Verdes Reservoir. This work is part of a capital project that will allow for more efficient dewatering of the reservoir. The current dewatering process requires multiple valve operations and coordination with other agencies. The work includes adding 500 feet of 18-inch high-density polyethylene (HDPE) pipe, installing an 18-inch control valve and piping inside the existing valve vault, and constructing an energy dissipating structure. *(see photos below)*



Staff fabricating forms for a dissipater wall at Palos Verdes Reservoir



Staff installing pipe spool at the energy dissipater at Palos Verdes Reservoir

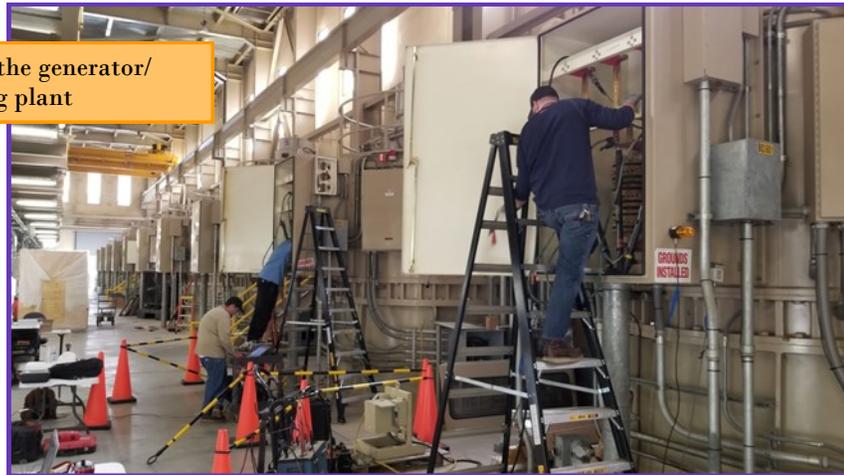
WATER SYSTEM OPERATIONS

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

Objective: Actively Engage in Capital Project Planning and Execution. Continued...

Staff performed scheduled maintenance on high-voltage equipment at the Wadsworth pumping plant. The high-voltage maintenance includes testing the pump generator/motor units, transformers, circuit breakers, and other electrical equipment to ensure reliability. This work also includes detailed diagnostic and performance testing of the generator/motors to establish a baseline condition in preparation for the Wadsworth Control and Electrical System Upgrade capital project. (see photo below)

Staff performing electrical tests on the generator/motor units at Wadsworth pumping plant



Staff installed a new chloramine residual analyzer and completed modifications to chemical feed lines at the Weymouth plant. This work is part of the F. E. Weymouth Water Treatment Plant Chemical Upgrades capital project, which will allow ammonia and chlorine to be added at the plant influent to effectively control bromate, a disinfection byproduct of the ozone process. The analyzer will be used to measure the chloramine residual for bromate control. (see photos below)



Staff modifying chemical supply line at the Weymouth plant



Staff isolating chemical supply lines at the Weymouth plant

WATER SYSTEM OPERATIONS

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

Objective: Optimize Maintenance. Continued...

Staff completed repairs of minor corrosion on the draft tube at the Coyote Creek Hydroelectric Plant. The draft tube is the exit point for the water that has passed through the turbine. Staff first inspected the metal to determine the extent of corrosion. Repairs were then made by preparing the surface, applying an epoxy coating in critical areas, and then adding a final coating.

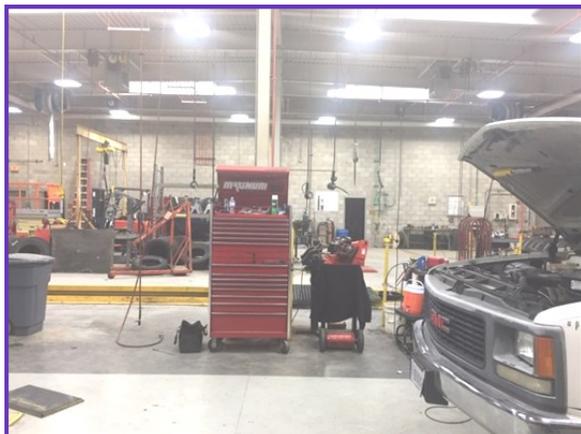
Staff working on or near high-voltage equipment receive specialized training on procedures to isolate, test, and operate equipment. Staff receive this training through written and practical exercises in classrooms and at functioning field facilities. In January, staff completed practical testing at the Corona Hydroelectric Plant. *(see photo right)*

Staff removing a high-voltage circuit breaker during a practical exercise at the Corona Hydroelectric Plant



Staff completed pipe repairs for the air-release valve at service connection CENB-21, located on the Lower Feeder in the city of Downey. The piping had degraded and was leaking. Staff exposed the leaking pipe within a sidewalk, installed a new pipe, and restored the concrete sidewalk. *(see photo right)*

Staff chipping concrete to expose leaking pipe



Staff installed new LED light fixtures in the fleet garage at the Jensen plant. These new fixtures provide twice as much light (lumens) while using less power. The LED light fixtures will increase visibility in the garage and provide staff with a safer and more efficient work environment. *(see photo left)*

Newly installed LED light fixtures in the fleet garage

WATER SYSTEM OPERATIONS

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

Objective: Actively Engage in Capital Project Planning and Execution. Continued...

As rehabilitation of the Palos Verdes Reservoir is nearing completion, staff is preparing to put the reservoir back into service. A key element of the return-to-service plan for this capital project involves disinfecting reservoir surfaces using chlorine. To prepare for this work, staff set up and tested a mobile chlorination unit that will be used for site-specific disinfection, without affecting portions of the distribution system that remain in service. Once the reservoir is disinfected, it will be drained, refilled, and tested prior to being put back into service in March 2019. (see photo right)



Staff preparing the mobile chlorination unit

Objective: Optimize Maintenance.

During excavation work related to an instrumentation upgrade capital project along the Colorado River Aqueduct, staff discovered a small crack across the top of the buried CRA, approximately 14 miles west of the CRA intake. There were no apparent signs of leakage from the crack, which at its widest point measured approximately half-inch. Although infrequent, small cracks of this type are discovered from time to time and do not jeopardize the reliability of the system. Repairs were completed in one week and included excavating along each side of the CRA to further expose the extent of the crack and injecting epoxy filler and grout to seal the opening. Staff completed repairs while the CRA remained in service, as is typically conducted for these types of repairs. During the scheduled CRA shutdown in March 2019, an internal inspection will be performed at this location to determine the need for internal band seals or additional sealant injection. (see photo right)



Staff injecting epoxy filler and grout to seal small crack on CRA

WATER SYSTEM OPERATIONS

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

Objective: Manage the Power System.

In January, Metropolitan launched a self-certification process for compliance with national electric reliability standards for the 230 kilovolt high-voltage electric transmission system serving Colorado River Aqueduct pumping operations. This work, performed under the oversight of the Federal Energy Regulatory Commission, will require verification by subject matter experts of Metropolitan's compliance with reliability standards applicable to transmission owners and operators of the national bulk power system. This self-certification process will be complete in February 2019.

Objective: Optimize Water Treatment and Distribution.

Flow-weighted running annual averages for total dissolved solids from December 2017 through November 2018 were 481, 480, and 488 mg/L for Weymouth, Diemer, and Skinner plants, respectively.

Between January 23 and 28, the Mills plant was shut down to support PCCP inspection of the Box Springs Feeder, which supplies water to the plant. During this shutdown, staff also performed several infrastructure improvements to ensure operational reliability of the plant. Staff tested electrical circuit breakers and replaced multiple flow meters. Aging instrumentation and associated cables/probes were also replaced. In addition, staff replaced a portion of the fluoride feed line, improving chemical feed reliability. Finally, the plant's effluent channel was inspected and surveyed, providing condition assessments and key measurements to support an upcoming capital project to replace the plant's finished water reservoir floating covers. (see photos below)



Staff performing an electromagnetic inspection of the Box Springs Feeder

Staff installing a flange



Staff at the Skinner plant is testing a new analyzer to measure disinfection levels in the treated water. Chloramines are used as a secondary disinfectant to maintain disinfection residual in the distribution system. If testing is successful, this new analyzer will provide an improved method to continuously monitor and determine optimal dosages of chlorine and ammonia, used to form chloramines. The new analyzer offers improved communication with the Supervisory Control and Data Acquisition system, and also has the potential to reduce the cost of maintenance by replacing multiple analyzers.

Staff completed corrective repairs on three isolation valves, which are integral to the solids thickening process at the Weymouth plant. Solids are produced as a byproduct of the water treatment process. Staff disassembled valves, cleaned and inspected internal components, and installed new parts. Repairs were challenging as the valves are inverted and elevated. These repairs will ensure reliability of solids handling at the Weymouth plant.

WATER SYSTEM OPERATIONS

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

As part of the Electrical Maintenance Program, staff tested low-voltage circuit breakers at the Weymouth plant. These circuit breakers are used to protect equipment for ozone generation and throughout the treatment process. Testing ensures all circuit breakers can safely operate and de-energize equipment in an overcurrent condition. This circuit breaker maintenance is performed annually to ensure reliable and continuous treatment operations.

Objective: Prepare for Future Legislation and Regulation

On January 17, staff attended an Environmental Laboratory Accreditation Program stakeholder workshop where State Water Resource Control Board representatives presented updates to laboratory accreditation requirements. These requirements are part of a draft regulatory package that is currently out for review. Oral comments were received at the workshop, with written comments due February 8, 2019. The regulatory review process will continue this year, with final regulations anticipated to be effective in January 2020. Staff is also participating in a state-appointed Environmental Laboratory Technical Advisory Committee to represent large water systems on matters affecting regulated laboratories.

GM STRATEGIC PRIORITY: Prepare for More Extreme Hydrology

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

Objective: Manage Water Reserves.

State Water Project imports into the service area in January accounted for about 41 percent of Metropolitan's deliveries. Storage at Diamond Valley Lake is at 702,000 AF or 87 percent of capacity. Water reserves continue to be managed according to Water Surplus and Drought Management principles, Annual Operating Plan objectives, and the current 15 percent 2019 SWP allocation. Deliveries to the Advanced Delivery Account with Desert Water Agency and Coachella Valley Water District were about 12,000 AF. No other deliveries to storage accounts were made in January.

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: Protect Source Water Quality.

On January 8, 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 & Electric provided an update on project activities as construction began in October 2018. This month, PG&E began the first pipeline construction and remediation well installation. Metropolitan will continue to monitor construction progress of the groundwater remediation and long-term soil remedy development. Construction of the groundwater treatment system is expected to be completed in 2023, followed by long-term operation and maintenance of the system.

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

Metropolitan's hydroelectric plants generated an average of 17 megawatts per hour for approximately 12,400 megawatt-hours for January.

WATER SYSTEM OPERATIONS

GM STRATEGIC PRIORITY: Ensure Imported Supply Reliability

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

Objective: Support Imported Supply Reliability

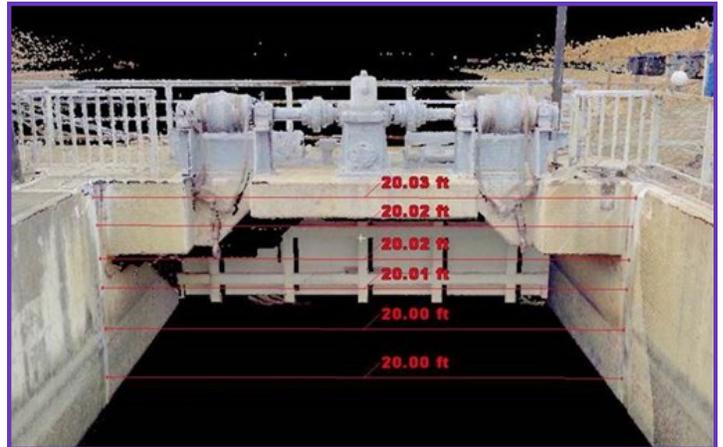
The La Verne Shops received a request from the California Department of Water Resources to refurbish a 20-foot by 30-foot radial gate. The gate weighs 35,000 pounds and is one of 32 gates installed at eight check stations along the State Water Project. Each of these stations has four gates that control a maximum flow of 3,300 cubic feet per second. Staff performed 3D scanning to establish the correct alignment of the gate arms, pivot points, and interface between the gate and structure. Staff also inspected the gate and identified damage to its coating and corrosion of structural components. Over 500 welds were tested and repaired. Following the repairs, staff performed another 3D scan of the gate to confirm proper alignments. The cost to refurbish the gate is about \$500,000, and all costs will be reimbursed by DWR. Transportation of these large gates requires special permits and a California Highway Patrol escort. *(see photos below)*

- (1) Removal of radial gate along the State Water Project
- (2) 3D scanning to document alignment of the gate and components
- (3) Radial gate and components being unloaded at the La Verne Shops
- (4) Staff welding radial gate at the La Verne Shops

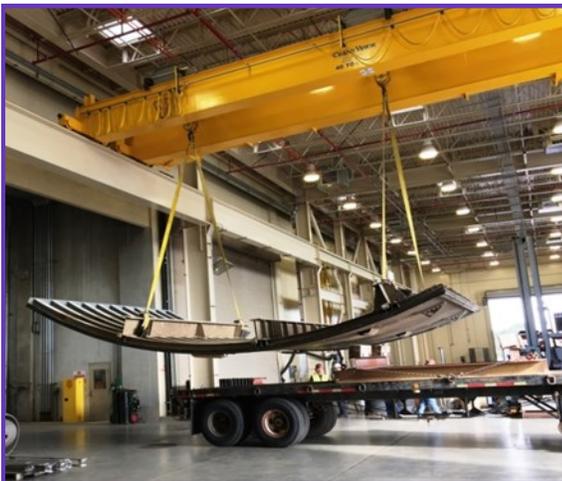
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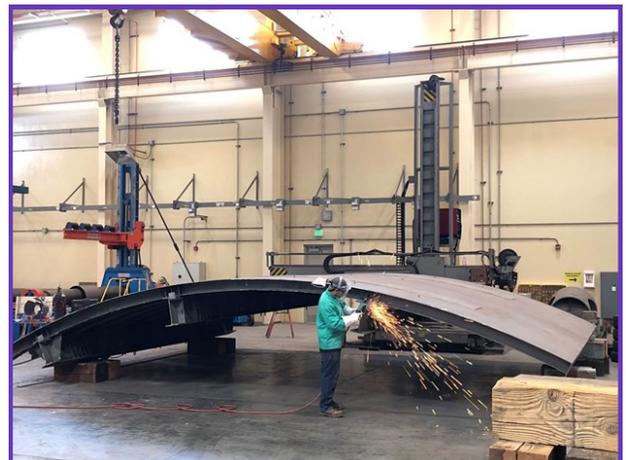
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WATER SYSTEM OPERATIONS

GM STRATEGIC PRIORITY: Maximize Local Resources

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

Objective: Support the Regional Recycled Water Program.

On January 8, staff visited regional water quality laboratories that analyze recycled water samples to discuss sample handling procedures and facilities. Staff also toured the Advanced Purification Center (APC) in Carson on January 22 to review construction progress, on-site laboratory facilities, and operational staff safety procedures. Water samples were also collected at the APC for preliminary analysis and evaluation of microbial methods to be used during the upcoming demonstration project.

On January 17, Metropolitan held its sixth Regional Recycled Water Program (RRWP) Regulator Meeting to finalize the demonstration testing and monitoring plan. Attendees included representatives from Metropolitan, Los Angeles County Sanitation Districts, State Water Resources Control Board Division of Drinking Water, Los Angeles and Santa Ana Regional Water Quality Control Boards, and project consultants. During the meeting, staff provided an update on progress of the RRWP and discussed responses to regulator comments on the draft testing and monitoring plan. All comments were satisfactorily addressed and regulatory approval of the plan is expected by March 2019, prior to Metropolitan beginning operations and testing at the APC.

On January 10, staff participated in the National Water Research Institute advisory workgroup meeting to review the implementation of bioanalytical tools for recycled water monitoring applications. These tools and the data they generate are expected to be required by the state in the future for implementation of potable reuse projects.

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 6 vacant positions in December 2018.

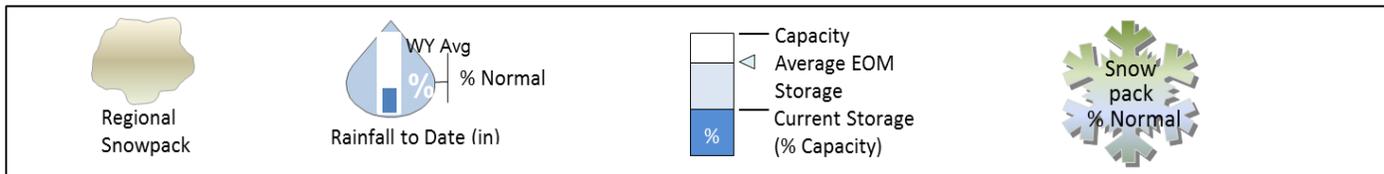
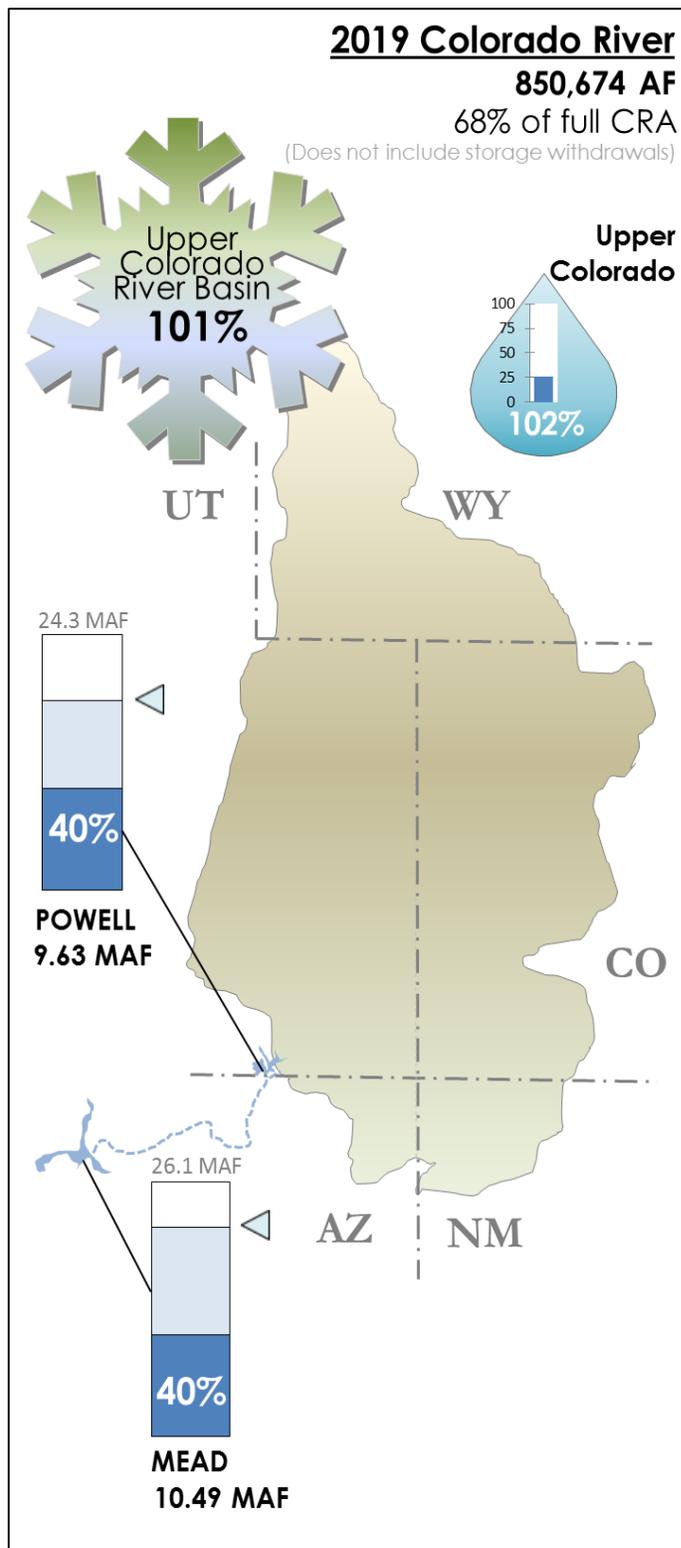
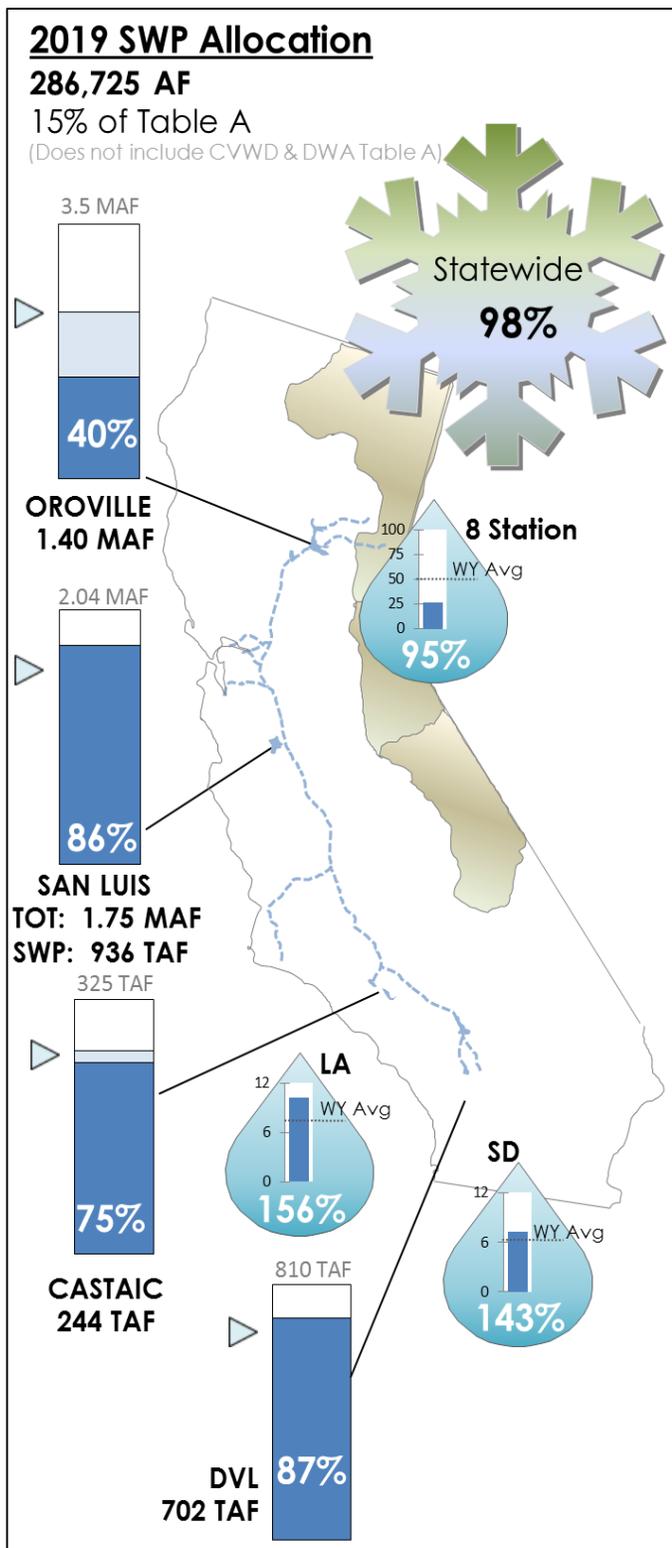
Objective: Prepare Employees for New Opportunities.

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. The Apprenticeship Program hosted a completion ceremony for Class of 2018 mechanics and electricians on January 15. The ceremony acknowledged the apprentices' successful completion of 36 college credits. Outstanding achievement awards were presented to top performing students in each discipline.

Staff continued the electrical cross-training study program for Desert region journey-level mechanics. This program provides training to assist Desert region mechanics to gain experience and prepare for future job opportunities. In January, participants studied National Electrical Code requirements while learning about high-voltage equipment and troubleshooting electrical and electronic systems.

The fourth cohort of the WSO Management Academy began in January 2019. A total of 30 journey-level employees from all areas of WSO were selected to participate. The first session included an overview of the program's content and participant expectations, a financial overview of Metropolitan, and a question-and-answer session with a Metropolitan executive leadership panel. Ten one-day sessions of the Academy are scheduled through October 2019. [\(see photos page 38\)](#)

WATER SUPPLY CONDITIONS AS OF JANUARY 31, 2019



Water System Operations

Objective: Support Education and Outreach Initiatives.

Staff assisted with four Colorado River Aqueduct inspection trips for the month of January. This included four three-day inspection trips for educators within Metropolitan’s service area, Municipal Water District of Orange County, city of San Marino, and the San Diego County Water Authority.

Photos below for story on page 36

First session of the 2019 WSO Management Academy



Class of 2018 Apprentice Completion Ceremony

Storage	As of 1/31/19	% of Capacity
DVL	702,247 AF	87
Lake Mathews	163,361 AF	90
Lake Skinner	39,891 AF	91

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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