



The **GENERAL MANAGER** Monthly Report

**Activities for the Month of
May 2021**

This report identifies the actions and activities taking place during the month that support the objectives of the General Manager's Fiscal Year 2020/21 Strategic Priorities and the Core Business of the GM's work groups.



Theodore Payne Native Plant Garden Tour

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ADMINISTRATIVE SERVICES SECTION/CAO

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 #2 SUSTAINABILITY - Develop, promote and support sustainable business practices.

The 2021 Average Vehicle Ridership (AVR) Survey was completed and submitted to South Coast Air Quality Management District (South Coast AQMD) by the required deadline, May 2021. Rideshare staff worked diligently to ensure a 96 percent participation rate for Weymouth Filtration Plant and 98 percent for Headquarters exceeding the minimum target goal at both locations.

Accomplishments

1. Administrative Services takes great pride in the variety of support services it provides across Metropolitan. The table below represents a sample of the Section's efforts midway through the fiscal year.

Administrative Services Section Activity July 1, 2020 through December 31, 2020		
Department Area	Transaction Type	Number
Mailroom	Postage UPS/FedEx (Incoming/Outgoing)	12,544 738
Business Resource Center	Facility Related Requests Received: Furniture, Moves, Lighting Operator Facilitated Calls	478 1,794
Rideshare	Transit Reimbursements Average Electric Vehicle Participants	55 74
ECM	Network files migrated	1,840,778
Procurement	Purchasing Documents Executed (Standard P.O., Blanket, Master, Informal Quotes, Request for Bids & Sole Source)	2,224
Professional Services	Professional Services Agreements Executed (RFP, RFQ, Gov Agency, Sole Source & Small Purchase)	55
Warehouse	Materials Transactions, Incoming & Outgoing	30,085
Reprographics	Imaging Services Jobs 99.3% Average on-time completion	Total Jobs: 537 Total Impressions: 1,526,446

ADMINISTRATIVE SERVICES SECTION/CAO *continued*

2. Records Management staff attended The Association for Intelligent Information Management (AIIM) 2021 Virtual Conference. The annual event brought together over 600 information professionals from over 30 countries. The Records Management Team learned the best practices, current trends, and top issues facing today's information management industry.



BAY-DELTA INITIATIVES

GM STRATEGIC PRIORITY #1: Resiliency

Objective # 1 Pursue the development of adaptive management decision processes, governance, and funding mechanisms that would provide effective and stable means of meeting State Water Project (SWP) regulatory requirements.

Staff participates in the collaborative groups called for in the 2019 Biological Opinions (BiOp) for the State Water Project (SWP) and Central Valley Project, and in the 2020 Incidental Take Permit (ITP) for Long-term Operation of the SWP, to address science needs and inform management and operation of the water projects. In May, staff coordinated with state and federal agencies' staff to develop a Juvenile Production Estimate (JPE) for Spring-run Chinook salmon as a condition required by the ITP. Staff also participated in the Delta Coordination Group as part of the BiOp implementation and provided written comments on the summer/fall habitat action science and monitoring plans.

Objective # 2 Develop and implement strategies that reduce risks to SWP water supplies in the Delta from climate change, promote opportunities for subsidence reversal, and support efforts to promote stable in-Delta water conveyance corridors to reduce risk of levee failures and water supply outages.

Delta Flood Emergency Management Plan

In addition to major centralized stockpile sites to support flood-fighting and emergency freshwater pathway actions currently in place at Rio Vista and Stockton in the Delta, the California Department of Water Resources (DWR) is planning to place flood fight supplies in the Delta at locations providing more localized access during future flood emergencies. A regional emergency material storage depot Memorandum of Agreement has been approved by the Sacramento County Office of Emergency Services (grant administrator on behalf of DWR) and Reclamation District 756 for approximately \$1 million to place materials on Bouldin Island (Metropolitan owned), which is near potential channel closure locations that facilitate freshwater pathway flows along Middle and Old Rivers in response to large seismic emergencies.

GM STRATEGIC PRIORITY #2: Sustainability

Objective # 1 Pursue completion of the planning and permitting process for the single tunnel Delta Conveyance Project (DCP).

Delta Conveyance

DWR is continuing to develop an Environmental Impact Report (EIR) under the California Environmental Quality Act (CEQA). DWR is continuing discussions with the local communities in the Delta to develop a Community Benefits Program as part of the Delta Conveyance Project to help protect and enhance the cultural, recreational, natural resource, and agricultural values of the Delta. DWR conducted interviews, one tribal workshop, and three public workshops to have discussions and obtain feedback.

Field activities, including cone penetration tests, soil borings, and geophysical surveys, under the Initial Study/Mitigated Negative Declaration for Soil Investigations in the Delta, are underway. DWR added a link to their public website to help provide information to interested members of the public and will update a map weekly showing the near-term planned explorations (<https://water.ca.gov/Programs/State-Water-Project/Delta-Conveyance/Public-Information>).

Additionally, DWR and the Delta Conveyance Design and Construction Authority (DCA) are continuing work to obtain temporary entry for these soil surveys on private lands.

BAY-DELTA INITIATIVES *continued*

Joint Powers Authorities

During the May 20 DCA Board of Directors Meeting, the board continued to discuss the draft budget for the fiscal year 2021/22 in the amount of \$21.5 million. Planned technical work in the upcoming year will largely focus on studies to support the preparation of the Draft CEQA documents, continued execution of the geotechnical program, and consideration of a range of refinements to be further evaluated during the final design.

The Delta Conveyance Finance Authority regularly scheduled May meeting was canceled.

GM STRATEGIC PRIORITY #3: Innovation

Objective # 1 Provide leadership through advancing scientific knowledge that promotes opportunities for the improvement of SWP supply reliability through the improvement and protection of estuarine processes, native species, and Delta ecosystem health.

Staff continued participating in the Collaborative Science and Adaptive Management Program (CSAMP), including participation on the Collaborative Adaptive Management Team (CAMT). CAMT reviewed a draft presentation on Delta smelt management and science activities, discussed the findings and recommendations of a report prepared for CAMT that assessed the pilot implementation of the Delta Smelt Science Plan completed in 2019, and provided input on the draft CSAMP Organizational Framework for Delta Smelt.

Staff is helping to lead a CSAMP effort to collaboratively develop a scientific definition of salmon recovery, expressed as a suite of clear, measurable objectives and landscape-level quantitative targets. A series of technical workshops to develop this definition is being planned for the next year.

CHIEF FINANCIAL OFFICER

CFO STRATEGIC PRIORITY: Maintain Strong Financial Position

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

Objective #2 Manage risk to protect Metropolitan's assets against exposure to loss.

The Risk Management Unit completed 38 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: Financial Management

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

Objective #1 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.

Water Transactions for April 2021 totaled 134.4 thousand acre-feet (TAF), which was 0.1 TAF lower than the budget of 134.5 TAF. This translates to \$119.2 million in revenues for April 2021, which were \$2.5 million lower than the budget of \$121.7 million.

- Year-to-date water transactions through April 2021 were 1,278.5 TAF, which was 38.0 TAF lower than the budget of 1,316.5 TAF. Year-to-date water revenues through April 2021 were \$1,127.4 million, which were \$42.2 million lower than the budget of \$1,169.6 million
- In April 2021, Accounts Payable processed approximately 3,300 vendor invoices for payment and took advantage of about \$15,500 in discounts.

Objective #4 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.

On April 2, 2021, Metropolitan executed an extension of the term of the \$271,815,000 Special Variable Rate Water Revenue Refunding Bonds, 2020 Series B, to April 2, 2024, at a rate of 0.46 percent. The bonds were purchased by Wells Fargo Municipal Capital Strategies, LLC, for a one-year term, in April 2020, at a rate of 1.04 percent. Compared with last year's financing, Treasury staff locked in a 0.58 percent lower rate for an additional three-year term. The proceeds of that financing refunded all of Metropolitan's outstanding self-liquidity variable rate debt.

Objective #5 Prudently manage the investment of Metropolitan's funds in accordance with policy guidelines and liquidity considerations.

- As of April 30, 2021, Metropolitan's investment portfolio balance was \$1,341.1 million; for the month of April 2021, Metropolitan's portfolio managers executed 60 trades.
- During the month of April 2021, Treasury staff processed 1,011 disbursements by check, 24 disbursements by Automated Clearing House (ACH), and 111 disbursements by wire transfer. Treasury staff also processed 68 receipts by check, 29 receipts by ACH, and 54 receipts by incoming wires and bank transfers.

ENGINEERING SERVICES

GM STRATEGIC PRIORITY #1: Enhance Infrastructure Safety, Security, and Resiliency

Objective #1: 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:

- **Lakeview Pipeline Improvements**—This project will reline approximately 450 feet of the Lakeview Pipeline and replace a 60-inch tee at the Lake Perris Control Facility so that water can be delivered directly from DVL to the Mills plant. Construction is complete and the pipeline has been returned to service.
- **Greg Avenue Pump Station Rehabilitation**—This project improves reliability of the Greg Avenue Pump Station to deliver treated water from the Weymouth plant to the western portions of Metropolitan's distribution system. The project includes replacing the existing pumps and appurtenant equipment and upgrading the plant's electrical and control systems. Construction is complete. The contractor and Metropolitan staff completed the final installation of remaining pump components. Testing and commissioning are scheduled to be complete by June 2021.
- **Casa Loma Siphon Upgrades**—This project replaces approximately 1,000 feet of the Casa Loma Siphon Barrel No. 1 at a fault crossing using Earthquake Resistant Ductile Iron Pipe (ERDIP) and welded steel pipe (WSP). The fabrication and delivery of ERDIP and WSP is complete. Final design of the pipe installation construction package is 98 percent complete and is scheduled to be complete by July 2021.
- **De Soto Valve Structure Upgrade**—This project removes and replaces the existing valves with a Metropolitan-furnished 42-inch high performance butterfly valve and two 12-inch lubricated plug valves; installing a Metropolitan-furnished 42-inch multiple orifice valve, new pipe sections, and electrical panels; constructing platforms; and abatement of hazardous materials. Metropolitan forces completed installation of the valves during a scheduled April/May shutdown after the contractor was unable to perform the work. Site restoration by Metropolitan forces is scheduled to be completed by July 2021.

Prestressed Concrete Cylinder Pipe (PCCP) Reliability Program

This program was established to enhance the reliability of Metropolitan's water distribution system and to reduce the risk of costly emergency repairs of PCCP. The priority pipelines included in the program are the Second Lower Feeder, Sepulveda Feeder, Calabasas Feeder, Rialto Pipeline, and the Allen-McColloch Pipeline. A total of 100 miles of PCCP pipelines will eventually be relined with new steel pipe liners under this 20-year program. 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. Approximately 10 miles of PCCP on the Second Lower Feeder have been relined. Construction for Reach 2 is 99 percent complete and is scheduled to be complete by April 2021. The contractor is currently coordinating the construction of a manhole modification on Reach 2. Final design of Reach 3 is 97 percent complete and is scheduled to be complete by September 2021. Preliminary design continues for Reach 9, which includes a section of pipeline that will be tunneled under the Los Angeles River.

ENGINEERING SERVICES *continued*

- **Second Lower Feeder Isolation Valve Procurement**—This contract provides 13 conical plug isolation valves for the Second Lower Feeder rehabilitation. These valves range in diameter from 48 inches to 54 inches and provide primary isolation for maintenance activities, inspections, and repairs required to maintain reliable water deliveries with Metropolitan’s distribution system. Fabrication of the first three 48-inch conical plug valves is 86 percent complete, and the valves are scheduled to be delivered by August 2021. Successful final inspection of two of the 48-inch conical plug valves was completed in November 2020 and the third 48-inch valve is undergoing shop testing. Fabrication and machining of the 54-inch conical plug components continued in preparation for the second delivery.
- **Allen McColloch Pipeline Relining**—This project rehabilitates approximately 1,200 feet of existing PCCP segments with a steel liner pipe that will accommodate full internal and external pressures on the line. All construction was completed in May 2021.
- **Sepulveda Feeder PCCP Rehabilitation**—This project rehabilitates the remaining 35 miles of PCCP segments within the Sepulveda Feeder. Long-term rehabilitation of the Sepulveda Feeder will be staged over multiple years with multiple construction and procurement contracts. Final design of Reach 1 is 8 percent complete and is scheduled to be complete by February 2023. Preliminary design to rehabilitate the remaining reaches of the feeder continues.

Colorado River Aqueduct (CRA) Reliability Program

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

- **CRA Discharge Isolation Couplings**—This project fabricates and installs 44 isolation coupling assemblies at the five Colorado River Aqueduct pumping plants. Construction is 100 percent complete with the contractor finishing field activities and demobilizing from the site two months ahead of schedule.
- **CRA Radial Gates Replacement**—This project replaces eight deteriorated radial gates along the aqueduct in two stages. Construction of Stage 1 to replace a radial gate at Eagle Mountain Pumping Plant is complete. Stage 2 work includes replacement of seven radial gates at seven facilities along the CRA. Construction of Stage 2 is 99 percent complete. The contractor is working on punch list items and installation of new transformer containment pads at the Iron Mountain and Hinds pump plants. Construction is scheduled to be complete by June 2021.
- **CRA Domestic Water Treatment System Replacement**—This project replaces the domestic water treatment systems at all five pumping plants. Final design is 90 percent complete and is scheduled to be completed by June 2021.

ENGINEERING SERVICES *continued*



Lakeview Pipeline Improvements—Bulkhead welding



CRA Discharge Isolation Couplings—Completed concrete pipe supports and new access stairways

ENGINEERING SERVICES *continued*

Treatment Plant Reliability Program

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

Weymouth Plant

- **Weymouth Chlorination System Upgrades**—This project expands the existing chlorine building to house additional chlorination feed equipment and instrumentation at the Weymouth plant. The contractor is currently working on instrumentation and electrical equipment installation, wire terminations, point-to-point checking, and pre-dry commissioning. Construction is 93 percent complete and is scheduled to be complete by September 2021.
- **Weymouth Water Quality Instrumentation Improvements**—This project will improve monitoring and rapid response to changing water quality conditions at the Weymouth plant by adding required sample piping, pumps, and housing for water quality analyzers. The contractor is currently installing analyzer panels, stainless steel piping for sampling pumps, motor control centers, and cable trays as well as preparing the testing plan. Construction is 95 percent complete and is scheduled to be complete by August 2021.

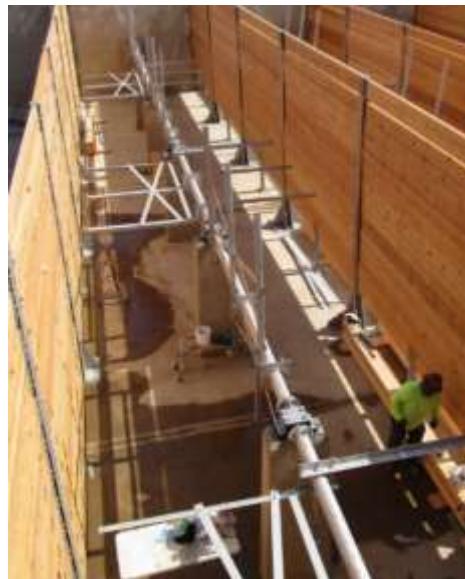
Diemer Plant

- **West Basin and Filter Building Rehabilitation**—This project rehabilitates 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. The contractor has completed installation of all new valves and actuators in the west filters and has completed rehabilitation work for three of the four west basins. The contractor continues replacing equipment and conducting commissioning and testing activities for the one remaining basin. Construction is 98 percent complete and is scheduled to be complete by July 2021.
- **Diemer Water Sampling System Improvements**—This project upgrades the existing Diemer water sampling system, comprising 13 sample locations. At each location, the sample pump, piping, and field analyzers will be upgraded by Metropolitan staff. All materials and equipment have been procured for this project and Metropolitan staff is currently installing and commissioning water quality field analyzers. Construction is 87 percent complete and is scheduled to be complete by August 2021.

Jensen Plant

- **Jensen Electrical Upgrades, Stage 2**—This three-stage project upgrades the electrical system with dual power feeds to key process equipment to comply with current codes and industry practice. Stage 1 work is complete. Stage 2 improvements will upgrade Unit Power Controllers 7 and 9 and their associated motor control centers to support critical process equipment. The contractor has completed energizing new unit substations, pulling feeder cables to new motor control center (MCC) enclosures, energizing the irrigation MCC; and is currently pulling control cables inside new motor control enclosures. Construction is 77 percent complete and is scheduled to be complete by August 2022.

ENGINEERING SERVICES *continued*



**Diemer West Basin and Filter Building Rehabilitation —
Installing baffles for the new flocculators at Basin 8**

System Reliability Program

The System Reliability Program consists of projects to improve or modify facilities located throughout Metropolitan's service area in order to use new processes and/or technologies and improve facility safety and overall reliability. Recent activities include the following:

- **Headquarters Building Improvements**—This project provides seismic upgrades and other needed improvements to Metropolitan's Union Station Headquarters Building. Construction related to the original contract scope is 98 percent complete. The contractor is currently working on Floors 10 through 12 and continuing electrical work for the power door assist devices. Staff is working with the contractor to advance additional work while the building remains lightly occupied. Construction is anticipated to be complete by December 2021.
- **Board and Committee Room Upgrades**—This project upgrades A/V systems in the board room, three committee rooms, and the Rotunda at Metropolitan's Headquarters Building. Engineering Services, IT, and Facilities Management are working collaboratively on this technology replacement project. Installation of the A/V equipment has been included as a board-approved change order to the original Headquarters Building Improvement contract, described in the previous paragraph. The contractor is currently installing electrical and HVAC equipment in the second-floor committee rooms and A/V equipment in Committee Room 1-102 and the board room. Construction is 70 percent complete and is scheduled to be complete by August 2021.
- **Headquarters Physical Security Upgrades**—The comprehensive security upgrades for the Metropolitan Headquarters Building have been prioritized and staged to minimize rework and impacts on day-to-day operations within the building. The Stage 1 work enhances security related to perimeter windows and doors. Stage 2 improvements will provide security system upgrades inside the building with a focus on the main entry rotunda area, board room, executive dining lounge, and security control room. Stage 3 improvements will provide security system upgrades around the perimeter of the building. Construction of Stage 1 is 98 percent complete and is scheduled to be complete by August 2021. Construction of Stage 2 improvements is 32 percent complete and is scheduled to be complete by April 2022. The contractor is installing cabling for cameras and card readers on Floors 1, 2, and 9–12, in concurrence with other building improvement work. Stage 3 improvements are currently in the design phase.

ENGINEERING SERVICES *continued*

- **Headquarters Building Fire Alarm and Smoke Control System Upgrades**—This project upgrades the Metropolitan Headquarters Building fire life safety systems, which includes replacement of the fire detection and alarm system and HVAC system improvements for smoke control. The contractor is performing utility research, continuing the permit approval process, electrical closet installation, and revising the construction sequence according to the Fire Department's request. Construction is 15 percent complete.



Headquarters Building Improvements—Installing LED screens in the board room



Headquarters Building Improvements—Testing of board room LED screens

ENVIRONMENTAL PLANNING SECTION/CAO

GM STRATEGIC PRIORITY #1: Resiliency

Objective #1 Provide planning, California Environmental Quality Act (CEQA)/National Environmental Policy Act (NEPA), and regulatory permitting support for programs and projects that focus on infrastructure reliability and redundancy.

California Environmental Quality Act (CEQA) Review

Prestressed Concrete Cylinder Pipe (PCCP) Reliability Program

- Conducted biological surveys and monitored construction and demobilization activities for Allen McColloch Pipeline PCCP Urgent Relining.

GM STRATEGIC PRIORITY #2: Sustainability

Objective #2 Provide planning, CEQA/NEPA, and regulatory permitting support for projects and activities that address the challenges of sustainability, including aging infrastructure, contaminants of concern, and affordability of water supplies.

Delta Conveyance Project

- Reviewed and provided comment on administrative Draft Environmental Impact Report cultural resources chapter and technical studies.

Colorado River Aqueduct

- Conducted biological resource surveys for desert tortoise and rare plant species for the proposed Colorado River Aqueduct (CRA) Storage Buildings Project.

Objective #3 Continue to actively manage Metropolitan's more than 30,000 acres of conservation lands through cooperative relationships with public agencies and non-governmental conservation organizations to promote sustainability of reserve resources.

Lake Mathews Multiple Species Reserve

- Completed draft of the Lake Mathews Reserve Fire Response Plan Map, which will facilitate improved firefighting coordination efforts by Reserve management staff.
- Continued weed mapping and management efforts throughout the reserve, including discovery and treatment of new Stinknet (*Oncosiphon piluliferum*) populations.
- Mowed approximately 20 acres of grassland to maintain optimal habitat for Stephens' kangaroo rats (*Dipodomys stephensi* (incl. *D. cascus*)) and burrowing owls (*Athene cunicularia*).

Southwestern Riverside County Multi-Species Reserve

- Conducted surveys for rare plant species and documented occurrences of Parry's spineflower (*Chorizanthe parryi*), Palmer's grapplinghook (*Harpagonella palmeri*), and Munz's onion (*Allium munzi*) (see photo).
- Trapped over 70 non-native brown-headed cowbirds.
- Applied herbicide to short pod mustard (*Hirschfeldia incana*), Malta star-thistle (*Centaurea melitensis*), and Stinknet (*Oncosiphon piluliferum*) populations at various locations throughout the reserve.

ENVIRONMENTAL PLANNING SECTION/CAO



Munz's onion (*Allium munzii*) identified during surveys on the Southwestern Riverside County Multi-Species Reserve

GM STRATEGIC PRIORITY #3 Innovation

Objective #1 Pursue programmatic CEQA and regulatory permitting efforts for operations and maintenance activities throughout Metropolitan's service area to streamline clearances for capital projects and O&M activities.

Right of Way and Infrastructure Protection Program (RWIPP) – Orange County

- Received California Department of Fish and Wildlife (CDFW) Long-Term Routine Maintenance Streambed Alteration Agreement authorizing routine maintenance activities in jurisdictional waters throughout Orange County.

Objective #3 Partner and collaborate with regulatory and resources agencies, as well as other public agencies and external organizations, to build relationships and expedite/streamline environmental authorizations and clearances for Metropolitan projects.

- Conducted coordination meeting with CDFW Region 5 management and supervisory staff.

CORE BUSINESS: Regulatory Compliance

Objective #1 Provide timely and professional environmental planning services and CEQA and regulatory permitting support to ESG, WSO, WRM, External Affairs, and Real Property groups.

Engineering Services

- Provided design phase support for:
 - Skinner Dry Polymer Building Roof Replacement Project
 - Western San Bernardino Right-of-Way Infrastructure Protection Program
 - Garvey Reservoir Rehabilitation Project
 - Jensen Ozone Power Supply Units Replacement
 - Jensen San Fernando Road Entrance Asphalt Pavement Rehabilitation

ENVIRONMENTAL PLANNING SECTION/CAO *continued*

- Foothill Hydroelectric Power Plant Seismic Upgrade
- Weymouth Basin 5-8 Rehabilitation
- San Gabriel Tower Seismic Upgrades
- Weymouth Administration Building Seismic Upgrades
- La Verne Water Quality Building
- Lake Perris Seepage
- Perris Valley Pipeline
- Live Oak Reservoir Asphalt Road Repairs
- Lake Skinner and Cajalco Creek Dam and Detention Basin Safety of Dam Activities

Water System Operations

- Completed environmental analysis and provided environmental support for:
 - Upper Feeder Fence Installation
 - Lakeview Pipeline Repair
 - San Diego Pipeline No. 5 San Diego County Water Authority-Requested Emergency Repair Shutdown
 - Routine Road Grading and Maintenance Activities for Allen McColloch Pipeline, Lower Feeder, Santiago Lateral, and Yorba Linda Feeder
- Submitted CDFW Emergency Notification of Lake or Streambed Alteration for:
 - San Diego Pipeline No. 5 Shutdown
 - Lakeview Pipeline Shutdown
- Conducted sensitive species and nesting bird surveys to ensure compliance with the Migratory Bird Treaty Act and Fish and Game Code for protection of migratory birds for:
 - Vegetation maintenance at Palos Verdes Reservoir, various locations along Foothill Feeder, and along the Santiago Lateral
 - Lakeview Pipeline shutdown (see photo)



Burrowing owl (*Athene cunicularia*) observed during biological surveys along Lakeview Pipeline

Water Resource Management

- Completed environmental analysis and provided environmental support for

ENVIRONMENTAL PLANNING SECTION/CAO *continued*

- Water Delivery Agreement with the California Department of Water Resources
- Santa Margarita Water District Las Flores Enhanced Water Reliability Project
- City of Beverly Hills Desalter Project

Construction Monitoring

- Provided construction monitoring for the Garvey Reservoir Drainage and Erosion Improvements Project and Orange County RWIPP.

External Reviews

- Reviewed 16 notices for external projects and prepared comment letters for those that may affect Metropolitan facilities and/or operations.
- Prepared response to California Department of Transportation information request for public wildlife and waterfowl refuge resources under the Federal Transportation Act, 49 U.S.C. Section 303 for the Cajalco Road Widening Project.

Real Property Support

- Provided CEQA analysis and determinations in support of seven real property agreements.

EXTERNAL AFFAIRS

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

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

Objective #1 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, and informing 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.

In response to heightened media and public attention on current drought conditions, Metropolitan continued to provide resources and information to diverse audiences on the need for continued conservation and the many actions and investments that have resulted in significant drought resiliency for much of Southern California. Key activities included:

- A new drought page on the mwdh2ho.com website with an updated messaging framework and links to media stories, blogs, and water supply updates.
- Chairwoman Gray and GM Kightlinger addressed the Southern California Leadership Council on water supply conditions, the state's emergency drought resolution, and Metropolitan activities to ensure water deliveries to the region. (May 19)
- Senior management led by GM Kightlinger responded to numerous news media requests for interviews, including:
 - CBS National News reporter/producer Ayanna Runcie regarding the future water supply/demand gap, water conservation, and recycling
 - Bloomberg News reporter Laura Bliss on Metropolitan's record reserves and water supply conditions
 - Los Angeles Times business columnist Michael Hiltzik on drought declarations, Metropolitan's preparedness, and Lake Mead
 - NBC4 News' Patrick Healy on Metropolitan's preparedness for drought, State Water Project allocation, Colorado River, and Delta Conveyance
 - Water Education Foundation writer Gary Pitzer regarding drought and Metropolitan water reserves and preparedness
 - E&E News reporter Jeremy Jacobs on California drought and water politics
 - China Global Television Network reporter Xu Tao on California drought
 - KNX-AM 1070 Pete Demetriou regarding California drought conditions
 - KABC7 Eyewitness News on drought conditions and impacts
 - KPCC reporter Chris Greenspan regarding drought and water supply conditions
 - Circle of Blue reporter regarding Intentionally Created Surplus storage in Lake Mead

Chairwoman Gray provided opening remarks at the Delta Conveyance Project Community Benefits workshop, a series of meetings convened by the Department of Water Resources with Delta residents and local leaders to discuss program goals, objectives, and the types of projects that could be beneficial to the Delta community. (May 6)

EXTERNAL AFFAIRS *continued*

Chairwoman Gray, Directors Ackerman, Atwater, DeJesus, Jung, Lefevre, Morris, G. Peterson, and Smith and Metropolitan staff participated in the Association of California Water Agencies virtual spring conference. AGM/COO Upadhyay participated on a panel on the Regional Recycled Water Program., and other program presenters included Newsom Administration officials and representatives from water agencies, business, finance, and the legal fields. (May 13-14)

Metropolitan launched a new online outreach campaign to elevate public awareness and understanding of the District's role in helping to address Southern California's important water issues and highlight the ways our facilities, programs, and employee commitments help ensure the delivery of safe, reliable water supplies and promote stewardship. The campaign will continue with new assets for several more weeks. (See images below)



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

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

Objective #1 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

GM Kightlinger and staff held a virtual briefing on the Regional Recycled Water Project for Congressional staff on the House Natural Resources Committee. The event highlighted the scope and scale of the program and regional partnerships involved in developing the project. (May 14)

Eligible state and local governments can now receive their share of the American Rescue Plan's Coronavirus Fiscal Recovery Fund. Funding for California includes \$27 billion to the state, \$7.7 billion to counties, \$7 billion to cities, and \$1.2 billion to other units of local government. This fund is designed to help communities recover from the pandemic and can be used for utility assistance, investments in water and sewer infrastructure, and other purposes. Metropolitan staff will continue to track this funding and provide updates to our member agencies.

EXTERNAL AFFAIRS *continued*

Executive Legislative Representative Schneider addressed the Water Education for Latino Leaders virtual conference, providing an update on federal water policy initiatives and funding programs for water infrastructure and clean water projects. (May 27)

State

Governor Newsom declared a drought emergency for Sonoma and Mendocino counties and later expanded the emergency to 39 other counties that comprise the Klamath River, the Sacramento-San Joaquin, and Tulare Lake Basin watersheds. Southern California is not covered by these emergency declarations in recognition of investments in conservation and large amounts of stored water.

Senate President pro tem Atkins announced a proposed \$3.41 billion budget plan for drought, safe drinking water, water supply reliability, and ratepayer assistance, including \$200 million for recycled water. The proposal also has \$1 billion for COVID-19 financial assistance for water agencies and public-owned utilities.

The May Revision for the FY 2021-22 budget revealed a \$76 billion state surplus and \$25 billion in available federal funds. The revised spending plan prioritizes funding for education, homelessness and housing, healthcare, and climate resilience. It also proposes \$5.1 billion for water infrastructure, drought response, and climate change of which \$1 billion is to help public and private water systems cover revenue impacts from COVID-19.

SB 222 (Dodd, D-Napa), which would create a low-income water rates assistance program, came off suspense with amendments to make enactment contingent upon an appropriation to cover costs. The following measures are now two-year bills: AB 1434 (Friedman, D-Glendale) to revise indoor residential use standards; AB 377 (Rivas, D-Hollister) to alter how the State Water Board prioritizes and regulates surface water discharges and the state's impaired waters list; and Metropolitan- sponsored SB 230 to create a program for constituents of emerging concerns at the State Water Board.

Isaac Bryan won the special election for Assembly District 54, which represents Culver City. The seat was formerly held by now-Senator Kamlager.

Local

Metropolitan staff and the Municipal Water District of Orange County provided a joint water issues briefing to the city of Huntington Beach. (May 12)

Metropolitan sponsored the Central City Association's Innovation in Industry Series: Infrastructure Resilience virtual event, which featured Director Matt Peterson in his role as President and CEO of the Los Angeles Cleantech Incubator. (May 18)

GM Kightlinger, Water Resources Manager Coffey, and other Metropolitan staff participated in the CORO Fellows Program Water and Energy Focus week, sharing historical perspectives, operations, governance, current water supply conditions, and new initiatives. (May 18)

Metropolitan staff attended the San Gabriel Valley Economic Partnership virtual event featuring Los Angeles County District Attorney Gascon. (May 19)

Director Cordero and Metropolitan staff met with Long Beach City Councilmember Allen for a regional water briefing on local resource programs, the Delta conveyance project, Integrated Water Resources Plan, Regional Recycled Water Program, water conservation success, and water efficiency. (May 21)

Metropolitan staff participated in webinars and events this month with chambers of commerce, business associations, councils of governments, and public affairs networks throughout the service area, including:

EXTERNAL AFFAIRS *continued*

- Western Riverside Council of Governments Executive Committee (May 3)
- South Bay Association of Chamber of Commerce Board/Government Affairs (May 4)
- Manhattan Beach Chamber of Commerce Legislative Affairs Committee (May 4)
- Ventura County Economic Development Association Policy Committee (May 5)
- Riverside County Water Task Force (May 6)
- Town Hall with Assembly Member Reyes (D-San Bernardino) and Congressman Aguilar (D-CA) (May 6)
- LAX Coastal Chamber of Commerce (May 6)
- Glendale Chamber of Commerce Business Advocacy/Legislative Review Committee (May 6)
- Santa Monica Chamber of Commerce Government Affairs Committee (May 6)
- Newport Beach Chamber of Commerce Government Affairs Committee (May 6)
- Glendora Chamber Legislative Action & Economic Development Committee (May 6)
- Orange County Business Council Government Affairs Committee (May 7)
- Southern California Water Coalition Legislative Committee (May 10)
- Regional Chamber of Commerce—San Gabriel Valley Government Affairs Committee (May 10)
- Oxnard Chamber of Commerce Business Advocacy Committee (May 10)
- CalCities Riverside Division (May 10)
- Inland Action (May 11)
- Orange County Business Council Infrastructure Committee (May 11)
- Palos Verdes Peninsula Chamber of Commerce Legislative Affairs Committee (May 11)
- California Building Industry Association Government Affairs Committee (May 12)
- South Orange County Economic Coalition Legislative Meeting (May 12)
- California Chamber of Commerce Legislative Summit (May 12)
- Valley Industry and Commerce Association Environment, Manufacturing & Utilities Committee (May 12)
- Valley Industry and Commerce Association Virtual Sacramento Day (May 13)
- Ventura Council of Government Board Meeting (May 13)
- State of Orange County Presentation with Supervisor Wagner (May 13)
- Upland Chamber of Commerce Legislative Advocacy Committee (May 13)
- San Gabriel Valley Legislative Coalition of Chambers (May 13)
- Building Industry Association of Southern California Water Conference Planning Committee (May 13)
- Greater Riverside Chambers of Commerce Government Relations Committee (May 14)
- Southwest California Legislative Council (May 17)
- Association of California Cities—Orange County Environment, Energy & Water Committee (May 17)
- El Segundo Chamber of Commerce Government Affairs Committee (May 17)
- United Chambers of Commerce Government Affairs Committee (May 17)
- Association of Water Agencies of Ventura County (May 18)
- Los Angeles County Business Federation Board of Directors (May 18)
- Pomona Chamber of Commerce Legislative Committee (May 18)
- San Gabriel Valley Council of Governments Energy, Environment, and Natural Resources Committee (May 19)
- El Monte/South El Monte Chamber of Commerce Legislative Committee (May 19)
- Orange County Business Council Economic Forum (May 19)
- Valley Industry and Commerce Association Governmental Affairs Committee (May 19)
- Coalition of Labor, Agriculture, and Water (May 19)
- Oxnard Chamber of Commerce Board Meeting (May 20)
- Harbor Association of Industry and Commerce Government Affairs Committee (May 20)
- South Gate Chamber of Commerce (May 20)

EXTERNAL AFFAIRS *continued*

- San Gabriel Valley Council of Governments Governing Board (May 20)
- Greater Ontario Business Council (May 21)
- Anaheim Chamber of Commerce Government Affairs Committee (May 21)
- Valley Industry and Commerce Association Meeting with Los Angeles County Assessor Prang (May 21)
- Los Angeles Area Chamber of Commerce ACCESS DC Event (May 25–26)
- Gateway Chambers Alliance Governing Board (May 25)
- Redondo Beach Chamber of Commerce Government Affairs Committee (May 25)
- Ventura County Economic Development Association Board Meeting (May 25)
- Valley Industry and Commerce Association Access DC (May 25-26)
- United Chambers of Commerce of the San Fernando Valley Board Meeting (May 26)
- Simi Valley Chamber of Commerce Legislative Affairs Committee (May 26)
- Valley Industry and Commerce Association Board Meeting (May 26)
- Construction Industry Coalition on Water Quality Board of Directors/Regulatory Affairs Committee (May 26)
- Huntington Beach Chamber of Commerce Government Affairs Committee (May 26)
- SGV Economic Partnership Legislative Committee (May 26)
- San Gabriel Valley Public Affairs Network (May 26)
- El Monte/South El Monte Chamber of Commerce Governing Board (May 27)
- Association of California Cities - Orange County Legislative Committee (May 27)
- South Orange County Economic Coalition (May 28)

Objective #2 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.

Awards

Metropolitan received top honors again this year from the National Association of Government Communicators for work products in the categories of social media, photography, employee communications, technical publications, and grassroots marketing. (May 25)

Interviews

In addition to the media interviews on drought conditions and conservation referenced in Objective #1:

- GM Kightlinger was credited in an LA Times editorial on the importance of wastewater recycling for long term sustainability. (May 17)
- Bloomberg Amanda Little and AGM/COO Upadhyay on recycled water for an opinion piece in Bloomberg Opinion.

Press Releases

- GM Kightlinger statement on Gov. Newsom's drought declaration for parts of state
- Spanish language tours of Regional Recycled Water Program demonstration facility
- GM Kightlinger statement on Gov. Newsom's expansion of drought declaration
- Board approval of \$19.6 million in funding from Local Resources Program for Santa Monica's Sustainable Water Supply Project
- Board approval of the Urban Water Management Plan

EXTERNAL AFFAIRS *continued*

Conservation Resources

Prepared and distributed a new downloadable Spanish version of the Waterwise Garden Guidebook, which provides landscape design tips and step-by-step guidelines to help residents transform their lawn to a waterwise and sustainable garden. (See image below)



Website

- Received more than 146,000 visitors to mwdh2o.com home page, with the Careers page and Diamond Valley Lake site the most frequented.
- Generated more than 14,000 views on bewaterwise.com, with the turf replacement and landscape classes the most visited sites.

Social Media

- Continued posting conservation-focused assets on social media platforms, encouraging Southern Californians to save water through the planting of California Friendly® and native plants as well as applying for water-saving rebates and fixing leaks around the house; postings garnered more than 3.5 million impressions on Facebook and Instagram over a six-week period. Posts are in English, Spanish, and Chinese.
- Supported Water Awareness Month and Drinking Water Week on social media by emphasizing Metropolitan's mission to deliver safe and reliable water every day. Other social posts celebrated Teacher Appreciation Week and Asian American Pacific Islander Heritage Month. (See images below)



- Rolled out new Spanish-speaking videos on social media platforms to promote Regional Recycled Water Program virtual tours.

Objective #3 PUBLIC OUTREACH AND MEMBER SERVICES - Conduct public outreach to increase awareness and input on Metropolitan projects and initiatives and ensure impacted communities are aware of Metropolitan construction and maintenance activities. Enhance public awareness of Metropolitan's systems and facilities and the role they play in regional supply reliability while protecting environmental resources. Serve as liaison to Metropolitan's member agencies and facilitate their engagement with Metropolitan.

EXTERNAL AFFAIRS *continued*

Member Agency Support

External Affairs Manager Sims made a presentation to the MWDOC Board of Directors on drought messaging, available resources, and collaboration opportunities with member agencies. (May 5)

Metropolitan met with the Member Agency public information officers and provided a preview of the new mwdh2o.com website and updates on Colorado River issues, drought conditions and communications, and Spanish language tours for the Regional Recycled Water Program.

Regional Recycled Water Program

- Provided presentation on the Regional Recycled Water Program to the National Water Reuse Action Plan Action 2.9 Workgroup (May 6)
- Provided virtual tour of the Regional Recycled Water Advanced Purification Center to the Mayor of Carson and city staff. (May 7)
- Provided virtual tour of the Regional Recycled Water Advanced Purification Center to the public. (May 26)

Inspection Trips and Other Outreach

- Metropolitan staff met with LA Councilmember Joe Buscaino staff to provide an update on the Second Lower Feeder Reach 3 relining project. (May 13)
- Provided an overview of Lake Mathews to the Residents Association of Greater Lake Mathews. (May 19)
- Participated in Water Education Foundation's virtual tour of the Lower Colorado River. (May 20)

Objective #4 EDUCATION AND COMMUNITY RELATIONS - Facilitate public engagement in and understanding of water resource issues through community relations activities and education projects. Build awareness of and appreciation among Southern California for the value of clean, reliable water supplies and the importance of good water stewardship.

General Education

This month, Metropolitan staff virtually interacted with 2,600 teachers, students, and parents, and continued to provide online tours, scouting programs, and customized Zoom class presentations. Hosted meetings for the Diamond Valley Lake Docent and Member Agency Education Coordinators that began discussing an updated Education Strategic Plan.

Solar Cup 2021

Final student challenges included projects with solar cars, electronics, and creating a public service message on watersheds and water conservation. More than 250 students have participated in the Solar Cup 2021 program.

Community Partnering and Sponsorship Programs

Metropolitan staff are serving as advisors to the California Native Plant Society for the new “BLOOM!” campaign in which native plants are specially branded as such at nurseries and plant stores, making it easier for consumers to identify. Funding for the campaign is through a State of California Specialty Crop block grant.

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

- CalTrout Virtual Trout Camp event (May 7)
- LA Conservation Corps Virtual Spring Luncheon (May 13)
- Central City Association “Innovation in Industry” program (May 18)
- CORO 46th Annual Crystal Eagle Awards Virtual event (May 25)

EXTERNAL AFFAIRS *continued*

Objective #5 BUSINESS OUTREACH AND INNOVATION - Facilitate opportunities for small businesses to work with Metropolitan. Help position Metropolitan as a leader in water innovation.

Metropolitan staff participated in the Women of Excellence Awards by Diversity Professional magazine. Former Director Jasmin Hall and current President of the Inland Empire Utility Agency Board was presented with the Women of Excellence Leadership Award. (May 4) [\(See image below\)](#)



Metropolitan supported small businesses and entrepreneurs throughout the region through its online participation and, in some cases, sponsorship of the following programs, online conferences, webinars, and events:

- Inland Empire Regional Chamber of Commerce Multi-Cultural Business Initiative (May 4)
- CA Hispanic Chamber of Commerce Virtual California Business Policy Summit (May 5)
- Los Angeles Sustainability Executive Roundtable LASER Decarbonization—The Race to Net Zero (May 6)
- US Green Building Council Los Angeles—Social, Environmental & Economic Benefits with Equitable Infrastructure (May 11)
- Orange County Hispanic Chamber of Commerce and LA Chamber of Commerce virtual event (May 12)
- National Association of Women Business Owners—Orange County Chapter “How to Do Business with the Water and Gas Utilities” (May 13)
- LA Metro Sustainability Council meeting (May 14)
- OCTANE annual Tech Forum (May 17–19)
- US Green Building Council Los Angeles—Municipal Green Building Conference and Expo (May 21–22)
- Southern California Business Center virtual event (May 27)

HUMAN RESOURCES

GM STRATEGIC PRIORITY #1: RESILIENCY

Objective #1 Partner with Metropolitan leadership to support learning, development, and adaptive workforce planning initiatives.

The Organizational Development and Training Unit continued the Metropolitan Leadership Academy for 29 employees interested in moving into a management role. May's session provided a detailed case study by WSO Conveyance and Distribution Section Manager Glen Boyd on the challenges faced in finding and repairing a water leak in the Santa Monica Feeder pipeline located in the middle of a busy Beverly Hills intersection. The case illustrated the extent of collaboration required both in and out of Metropolitan to resolve the issue. In addition, consultant Johanna Hollowich, walked the group through a method for developing constructive conflict, building trust, and taking key steps to resolve conflicts.

This month, 250 Metropolitan employees attended other online classes, including Effective Time Management, Microsoft Project, Excel Pivot Tables, and Communication Styles.

LinkedIn Learning, Metropolitan's online e-learning content platform, was used for 28 classes, including Providing Legendary Customer Service, Teamwork Foundations, Unconscious Bias, Writing with Impact, and Managing in Difficult Times.



HUMAN RESOURCES *continued*

Objective #2 Seek diverse, high-quality talent, and establish partnerships to discover additional outreach opportunities that aid in staffing positions.

Recruitment successfully filled 14 positions for the month of May. Fifteen new staffing requisitions were received, resulting in 88 positions currently in recruitment. Recruitment continues to successfully conduct virtual job interviews using Zoom.

The Human Resources Group Manager is working directly with the Board of Directors and executive search firm on the General Manager recruitment process. Interviews were conducted with an in-person and Zoom format. The selected candidate is going through the background check process, and the search firm is working on an employment agreement.

In May, the Diversity, Equity, and Inclusion (DEI) Council meetings used polling methods to review and approve amendments to the DEI Charter. A presentation was given on the Promotion process, which sparked lots of discussions. Finally, the established subcommittees within the Council had their first meetings.

GM STRATEGIC PRIORITY #2: SUSTAINABILITY

Objective #1 Implement employee retention and engagement programs to ensure Metropolitan's investment in employees is supported.

Staff continued the transitioning of Metropolitan's new-hire on-boarding process to an online methodology that will ensure employee preparedness from day one as well as offer continual support by management and Human Resources throughout their first year of employment.

Objective #2 Ensure Metropolitan managers have foundational knowledge, on-going support to effectively manage employees, and the tools to prepare for a changing workforce.

Organizational Development & Training presented two management webinars on how to use Microsoft Teams to encourage more team collaboration and described many other features, including file sharing and process documentation. Approximately 25 managers attended these classes.

Human Resources (HR) staff continued to provide one-on-one coaching and mediation services for managers and employees in the developmental areas of communication skills, self-awareness, and running effective meetings.

HR CORE BUSINESS: 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 #1 Administer all HR services with efficiency and a focus on customer service excellence, consistency, and flexibility.

HR Benefits mailed the 2020 Total Compensation Statements, reflecting total earnings and the value of Metropolitan paid-for benefits to the homes of all regular and recurrent employees.

HR hosted an Employee Emergency Relief (EERF) campaign that raised 626 donated leave hours for employees in need because of to catastrophic illness or injuries.

HR Benefits continued to administer the emergency leaves, ESPLA and EFMLEA, under the Families First Coronavirus Response Act (FFCRA) and approved 22 leaves of absence for the month of May for a total of 162 for the calendar year

HUMAN RESOURCES *continued*

2021. Under the third emergency leave recently enacted under SB95, COVID Supplemental Paid Sick Leave Act, 20 leaves of absence were approved thus far.

Under the American Recovery Plan Act (ARPA) of 2021, HR Benefits adopted the voluntary provision to allow a one-time mid-year enrollment and election changes for the 2021 Flexible Spending Account (FSA) plans to provide flexibility and help ensure employees don't lose pre-tax dollars they set aside for health care expense and over-the-counter medicines. In addition, all involuntarily separated employees retroactive to 10/01/2019 were notified about the new COBRA Subsidy enacted under ARPA. This offers temporary relief to those who lost health coverage by having premiums subsidized for up to six months between 4/01/21 through 9/30/2021.

HR 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 #1 Effectively administer all Human Resources policies, programs, and practices in compliance with applicable federal and state laws and Metropolitan's Administrative Code, Operating Policies, and Memorandum of Understanding.

In May, twelve new workers' compensation claims were received, and eight were resolved. Six employees remain off work because of an industrial injury or illness. This reflects Metropolitan's effort to accommodate injured workers while enabling them to be productive and on the job.

- Coordinated medical surveillance exams at one facility (Soto Street). The exams included respirator exams, Department of Motor Vehicle exams, and hearing tests.
- Coordinated two random drug and alcohol tests.
- Arranged five medical evaluations (DMV and medical surveillance).
- Addressed five Accommodation issues.

HR Metrics	June 2020	May 2021	Prior Month April
Headcount			
Regular Employees	1,799	1,807	1,809
Temporary Employees	29	30	28
Interns	9	5	5
Recurrents	21	20	20
Annuitants	17	16	15

	May 2021	April 2021
Number of Recruitments in Progress (Includes Temps and Intern positions)	88	87
Number of New Staffing Requisitions	15	20
	May 2021	April 2021
Number of Job Audit Requests in Progress	14	14
Number of Completed/Closed Job Audits	0	1
Number of New Job Audit Requests	0	1

HUMAN RESOURCES *continued*

Transactions Current Month and Fiscal YTD (includes current month)			
	FY 19/20 Totals	May 2021	FISCAL YTD
External Hires			
Regular Employees	127	4	70
Temporary Employees	29	4	28
Interns	18	0	3
Internal Promotions	91	2	56
Management Requested Promotions	109	16	134
Retirements/Separations (regular employees)	124	6	73
Employee Requested Transfers	15	1	19

INFORMATION TECHNOLOGY

GM STRATEGIC PRIORITY #1: RESILIENCY

OBJECTIVE #1 Strengthen Metropolitan's cybersecurity capabilities by deploying new and emerging technologies, and implementing enhanced security countermeasures

Continued to implement Cybersecurity projects and initiatives to improve Metropolitan's security posture and collaborate with stakeholders to further enhance network security capabilities for Metropolitan's computing environments.

- Implement IT governance to strengthen capabilities to mitigate increasing cybersecurity threats to Metropolitan's business systems and networks. Continued to deploy two factor authentication (2FA) and rollout computer certificates for VPN access for employees.
- Implement new security protocols in response to changing and evolving cyber threats and its potential impact to Metropolitan's computing environment.
- Coordinated with business groups to implement security updates and enhancements to address cyber vulnerabilities.
- Closely monitored on-going federal, state, and local cybersecurity bulletins and legislation applicable to Metropolitan. Where applicable, collaborated with appropriate agencies on matters that pertain to the water sector and/or cybersecurity.

OBJECTIVE #2 Manage Information Technology Projects within the Capital Investment Plan to ensure reliability of Information Technology (IT) Systems and Infrastructure.

- Continued to execute IT capital projects to replace end-of-life infrastructure, upgrade applications, and deliver innovative solutions to ensure reliability of IT systems and infrastructure. IT works closely with ESG on projects within Metropolitan's capital investment plan. Selected activities include:
 - **Budget System Replacement**—Upgrade Metropolitan's budgeting systems to support the capital and O&M budget processes and Board deliverables. The Development phase is substantially complete as initial testing is scheduled to begin next month with users.
 - **Asset Management**—Internal IT staff (developers) created a rapid prototype dashboard comprising data from multiple systems (WINS, AMR, MAXIMO, etc.), providing a holistic view for revenue metering. The dashboard is currently being evaluated by the business customer to refine requirements.
 - **Desert Microwave and Two-Way Radio projects**—Upgrade desert microwave tower sites by replacing end-of-life equipment and providing sufficient capacity and reliability to Metropolitan's wide area network in the desert region. Current efforts are underway to begin the procurement phase.
 - **Water Information System (WINS)**—The scope of this project is to upgrade the WINS system used for monthly billing to the Member Agencies and was approved by the Board in April. During the period, the agreement was executed, and this project is scheduled to kick off in early June.
 - **Enterprise Data Analytics**—The scope of this project is to develop a data and analytics strategy, create implementation best practices, and engaging Metropolitan stakeholders on a technology blueprint to serve the data analytics needs of Metropolitan business groups. Requirements for a competitive RFP are substantially complete and will be posted for solicitation once it is approved.



Project Management Office

INFORMATION TECHNOLOGY *continued*

OBJECTIVE #3 Modernize Operational Technology and Control System Upgrades as part of the Capital Investment Plan.

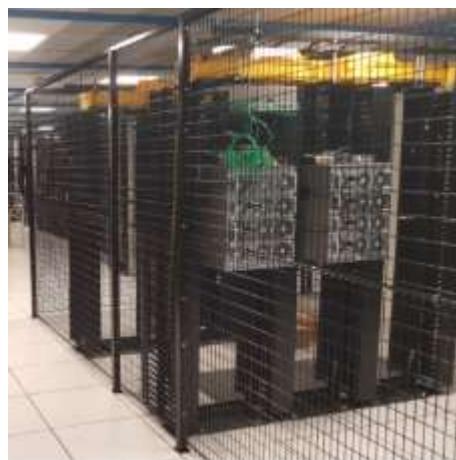
- Automated Meter Reading (AMR) Upgrade—The AMR project will address equipment obsolescence as the current communication equipment used in the system is approaching end-of-life. During the period, staff continued with the study phase of the project as part of evaluating design alternatives and technologies, including pilot testing of four radio frequency technologies.
 - Testing at Jensen is underway and is approximately 57 percent complete.
 - Efforts are underway to kick off testing at Weymouth to evaluate the performance of communication alternatives.

OBJECTIVE #4 Improve Metropolitan's IT Disaster Recovery and Response Capability

- Conducted IT ICP (Incident Command Post) Mid-Year Review and EOC Update Review. Periodic meetings ensure that IT-ICP stakeholders are up to date on protocols and current processes. On-going preparedness of IT staff who support emergency response ensures that they will be better prepared in the event of an emergency.

OBJECTIVE #5 Provide leadership, planning, and solutions in support of Metropolitan's Strategic Priorities.

- As part of the strategic priority to enhance Metropolitan's resiliency, IT staff continued efforts to relocate Metropolitan's data centers to modernize and enhance operational uptime of data center processing to meet current and future capacity and reliability needs.
 - **Secondary site**—Completed the secondary datacenter relocation and transitioned operations to the IT Infrastructure Unit. The successful completion of this effort culminated in a complex set of activities, including relocation of equipment and applications while minimizing disruption to the day-to-day business at Metropolitan. Efforts to complete the secondary datacenter (before the primary) was strategic to ensuring recovery capabilities are in place before moving the primary site. With the successful completion of the secondary site, resources have been shifted to focus on work at the primary site.
 - **Primary site**—The team continued to work on the procurement phase of the project while developing a comprehensive plan to address the logistical challenges associated with migrating hardware, software, communication networks, and ancillary systems. The work to relocate Metropolitan's primary datacenter is expected to continue into the second quarter of 2022.



Datacenter Co-location—undisclosed location

INFORMATION TECHNOLOGY *continued*

OBJECTIVE #6 Deploy solutions to improve operations, promote collaboration, and provide business value.

- The project team is beginning to wrap up the Personal Computer Replacement Project (PCRP) by continuing to deploy new laptops and workstations in a phased approach. Replacement of aging PCs and related equipment provides Metropolitan employees with computers that have greater processing speed, disc space, and improved reliability because the existing PCs have reached end-of-life.
- Beginning next Fiscal Year 2021/22, the goal of IT Group is to begin transitioning to an on-going refresh cycle by replacing a portion of the PCs at Metropolitan every year. This shift in strategy provides many benefits including:
 - A 20 percent refresh goal ensures that the oldest PCs are replaced before they reach the end of their useful life.
 - Minimize disruption to business operations because deployment will be more tactical (avoiding the challenges associated with a full-scale replacement).
 - Provide greater flexibility in meeting customer needs because of changing business requirements.
 - Normalizes the financial requirement and risk associated with mass purchase and deployment.

OBJECTIVE #7 Enhance workforce productivity by simplifying access to business information and deploy technologies to support our customers in making business decisions.

- The scope of the IT Service Management project is to deploy a new service desk software to centralize and modernize service management within the Information Technology Group. The service desk tool provides a self-service portal for work requests and improves operational reporting capabilities. This project is proceeding according to plan.
 - Completed Phase One of the IT Service Management (ITSM) used by Metropolitan's IT Service Desk Team to manage service ticket requests generated by business users across the enterprise.
 - In May, began functional testing of Phase Two, which will deploy the Change Management Database and Asset Modules to provide additional functionalities to enhance IT response capabilities for service ticket requests and incident reporting.
- Conducted on-going process improvements to enhance workforce productivity by holding monthly IT operational meetings and review of performance metrics.

GM STRATEGIC PRIORITY #2: SUSTAINABILITY

OBJECTIVE #1 Provide IT services in support of the Headquarters Improvements Program.

- Significant progress has been made as the IT Group continues infrastructure upgrades to replace end-of-life systems and deployment of new technologies at Metropolitan Headquarters. The IT work is being done in collaboration with Engineering Services Group and Facility Management on construction and network upgrades required to support security enhancements and related systems.
- In addition, IT resources continue to provide other support and services for the Headquarters Improvements Program and the Physical Security Enhancement Program to ensure system requirements are met.

OBJECTIVE #2 Manage Information Technology Projects within the Capital Investment Plan to ensure sustainability of IT Systems and Infrastructure.

- Based on the Board's authorization to proceed with the Fuel Management System Upgrade Project (approved in April), efforts are underway to finalize the agreement with the selected vendor. Once the agreement is executed, Metropolitan's project team will conduct a kickoff meeting to begin the upgrade of the current Fuel Management System, which has reached end-of-life.

INFORMATION TECHNOLOGY *continued*

GM STRATEGIC PRIORITY #3: INNOVATION

OBJECTIVE #1 Strengthen Metropolitan's cyber security capabilities by deploying new and emerging technologies and implementing enhanced security countermeasures.

- Continued key initiatives as cybersecurity remains a high priority and is a key part of the Information Technology Strategic Roadmap. Based on assessment of new cyber threats, elements of the Security Operations Center project are underway to implement countermeasures to protect Metropolitan's computing infrastructure. These cyber capabilities include initiating new tools, monitoring capabilities and managed services to identify and remediate network threats and potential malicious activities.
- IT Cybersecurity maintains periodic briefing to the Board to keep them apprised of cyber activities (conducted in closed session). The next briefing to the OP&T Committee is scheduled for July .



Cybersecurity Awareness

OBJECTIVE #2 Manage Information Technology Projects within the Capital Investment Plan to ensure sustainability of IT Systems and Infrastructure.

- Installed audio/visual (A/V) equipment as part of upgrades for the Board and Committee rooms to replace end-of-life A/V equipment. Working in close collaboration across groups, IT resources continued to make significant progress on the installation of equipment and has began testing various elements of the new system.



New A/V Equipment Installed in Boardroom

IT Staff installing equip. for testing

INFORMATION TECHNOLOGY *continued*

OBJECTIVE #3 Modernize Operational Technology and Control System Upgrades as part of the Capital Investment Plan.

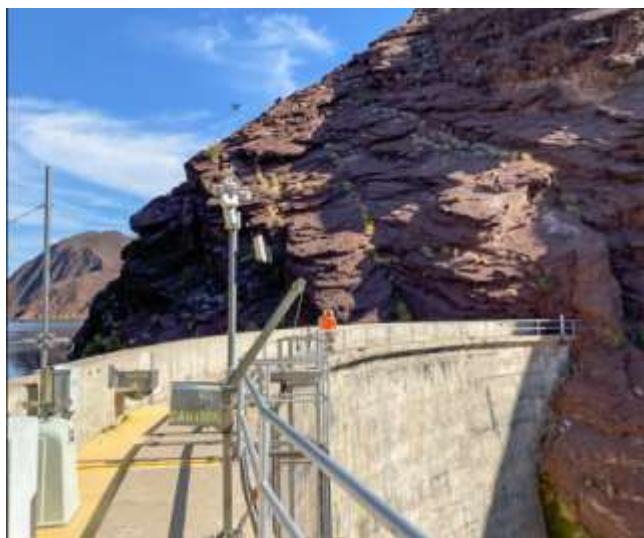
- Continued the capital improvements project to upgrade Metropolitan's Supervisory Control and Data Acquisition (SCADA) system to ensure continued reliability of the system-wide control system by addressing cybersecurity and technology obsolescence risks. During the period, staff continued to work with key stakeholders during the current RFP advertisement period.

OBJECTIVE #4 Provide Leadership, planning, and solutions in support of Metropolitan's Strategic Priorities.

- Continued to promote IT governance through the IT Executive Council and Operation Technology Governance Committee to ensure alignment with Metropolitan's strategic priorities.
- Coordinated on cloud initiatives to migrate selected virtual servers and applications to the cloud. Recent activities include successful migration of servers and databases, which has allowed for the decommissioning of legacy servers and those that have reach end-of-life (and will no longer need to be replaced). Other benefits include reducing Metropolitan's physical server footprint, risk profile, and potential vulnerabilities associated with legacy hardware and operating systems.

OBJECTIVE #5 Deploy innovative solutions to improve operations, promote collaboration, and provide business value.

- IT continued to work with WSO on the deployment of iPads as part of the Maximo Mobile project. Based on a prior pilot testing phase, efforts are currently under way to deploy additional units to support WSO operations.
- Continued to leverage innovative technology by conducting UAV/Drone Missions to support Metropolitan.
 - Collaborated with ESG to document the AMP 2021 Urgent Relining Project from beginning to end. Weekly project highlight videos have been made available on the MWD UAV Stream Channel.
 - Conducted an aerial façade survey test with the Field Survey Team at the Copper Basin Dam. IT staff is doing preparatory work to support a façade survey of the Copper Basin Dam in early June under the direction of the Field Survey Team for Safety of Dams.



UAV mission at Copper Basin Dam

INFORMATION TECHNOLOGY *continued*

OBJECTIVE #6 Enhance workforce productivity by simplifying access to business information and deploy technologies to support our customers in business decisions.

- Completed the Laboratory Information Management System (LIMS) v9.5 upgrade to maintain vendor support and to keep the application current for optimum system performance. During the period, staff successfully completed User-Acceptance Testing and placed the upgraded LIMS into production. LIMS is used by Water Quality in support of Metropolitan's water quality compliance and is a transactional processing system for water samples and their analytical results.



Water Quality Sampling

REAL PROPERTY

GM STRATEGIC PRIORITY #1: Resiliency

Objective #1 Provide right-of-way planning, valuation, and real property acquisition support services for the protection and reliability of existing infrastructure.

Metropolitan obtained a blanket access easement granting unobstructed access over a private owner's property located in the city of Fontana. The private property owner plans to subdivide and develop the property, and the blanket access easement will benefit Metropolitan by providing permanent access rights to inspect and maintain the Upper Feeder pipeline.

The construction duration of the Orange County Feeder Extension Relining Project in the city of Costa Mesa has been prolonged. As a result of the schedule change, three expiring Caltrans encroachment permits have been extended through May 2022. When completed, the relining project will enhance the reliability of the Orange County Feeder.

Objective #2 Foster staff training and development.

Staff completed the following:

- Metropolitan-sponsored course: Microsoft Project Online—Administration. This course provided tools and training on administering Microsoft Project Online, project management software that helps staff more effectively manage project schedules and milestones.
- Metropolitan-sponsored course: Project Management Foundation—Schedules. This course provided staff with information on how to build project schedules to accomplish project goals on time and within budget. This course will assist staff in resolving schedule conflicts, shortening timeframes, and reducing costs.

CORE BUSINESS: Real Property Acquisition, Management and Revenue Enhancement

Objective #2 Provide valuation, land management, and real property disposition support services for the maximum return or use of Metropolitan-owned land and facilities.

An Entry Permit was issued to the Academy of Motion Picture Arts and Sciences for the use of Metropolitan's headquarters property as a red-carpet valet and media area, and for event parking. The permit helped facilitate the staging and broadcasting of the 93rd Annual Academy Awards show.

Fondomonte California, LLC was granted a permanent easement for access purposes in Palo Verde Valley. An exchange of two distinct access easements was consummated between Metropolitan and Fondomonte California, LLC with access rights granted to both parties to traverse the other party's property. The easement areas conveyed in separate instruments are linearly contiguous, private road parcels at 1.87 acres each that provide non-exclusive, general, and emergency response access related to agricultural operations.

Chippis Island, in the Bay Delta, was sold to the California State Department of Water Resources. The Department of Water Resources plans to develop the island as a tidal habitat restoration project, which will benefit Metropolitan by providing required mitigation in connection with the State Water Project.

Objective #3 Efficiently maintain and operate assets not related to the treatment and distribution of water.

Staff completed replacement of eight ceiling-mounted coolers used to supply filtered chilled water to the building's drinking fountains. The coolers were original to the building and were at the end of their useful life.

REAL PROPERTY *continued*



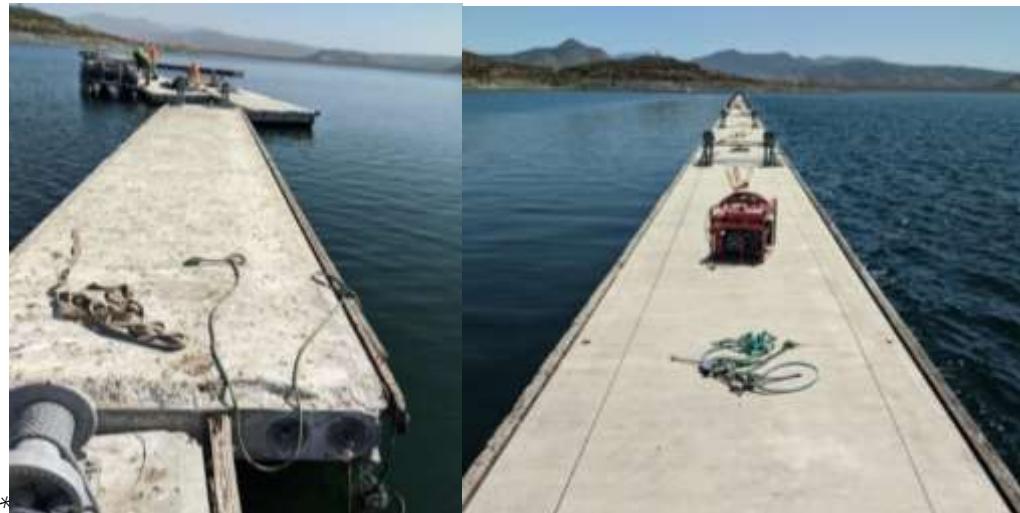
Signage for the reopening of the North Hills Trail and Viewpoint were installed. The signage includes a standard “No Trespassing” sign at the gates and Face Masks\Social Distancing signs at the trailheads and viewpoint.



North Hills Trail and viewpoint

The rehabilitation of the floating wave attenuator at Diamond Valley Lake was completed, in partnership with the Engineering Services Group. The attenuator is a series of interconnected floating concrete decks that protect the marina from the incoming waves and has been in place since 2006. Over time, the wave attenuator sustained damage to the post tensioned cables that tied the sections together, causing them to drift apart. The contractor's work included repairing spalling concrete and replacing the cables allowing the attenuator sections to realign. A second wave attenuator is in the design phase and will serve to complete the attenuating system, which is targeted to begin construction in late 2021.

REAL PROPERTY *continued*



Floating wave attenuator at Diamond Valley Lake (Before/After)

Objective #4 Metropolitan Housing Maintenance and Management.

Three Metropolitan houses were prepared for occupancy in May. The houses were prepared for employees whose positions require them to have an onsite Metropolitan residence.

Staff completed a total of 60 work orders, including 21 resident requests, 11 preventive maintenance tasks, and 28 general and corrective maintenance items associated with Metropolitan-provided housing.

Objective #2 Improve Security and Emergency Response

The Department of Homeland Security (DHS) conducted online quarterly training for Security Management Unit staff on countering Unmanned Aircraft Systems (UAS), which are colloquially referred to as drones. DHS Protective Security Advisor (PSA) Brian Keith provided in-depth case studies, current crime statistics, and the latest counter measures and mitigation protocols in dealing with recreational drone incursions and threats to critical infrastructure. Staff learned of the many legitimate and positive applications of UAS deployment by Metropolitan staff and other public safety officials to protect critical infrastructure and gain situational awareness during emergencies. As affordability and capability of commercially available UAS increases, opportunities for nuisance and nefarious usage rise as well. Incidents from hobbyists operating illegally but without malicious intent often create nuisance security alerts and responses at Metropolitan facilities. Potential nefarious UAS applications (unpermitted surveillance, distribution of contraband, or a terrorist attack) were also discussed by Metropolitan Security staff and law enforcement attendees.



Security staff attended DHS-conducted training on UAS

Objective #3 Improve Employee Readiness for All Hazards Emergencies

Metropolitan Security Management Unit staff participated in a customized, virtual training on workplace violence prevention. The two-hour training, hosted live by the Department of Homeland Security (DHS), focused on the primary goals of prevention, protection, and mitigation of potential incidents. Topics included avoiding imminent threats, securing and protecting Metropolitan against a variety of hazards, and identifying potential warning signs as described in “The Pathway to Violence.” Metropolitan’s Security staff uses these latest DHS-developed tactics, trainings, and procedures to update mandatory and voluntary employee training, including Personal Security Awareness (MyLearning) and the advanced “Stop the Bleeding” (in-person). The information is also used for employee support resources, such as the free and confidential Employee Assistance Program (EAP).

Behavioral Change Initiators



Behavioral Change Initiators in The Pathway to Violence

WATER RESOURCE MANAGEMENT

GM STRATEGIC PRIORITY #1: Resiliency

Objective #6 Ensure access to sufficient water supplies to operate a full Colorado River Aqueduct in times of drought.

Metropolitan staff reviewed and provided comments on the U.S. Bureau of Reclamation (USBR) [2020 Colorado River Accounting and Water Use Report](#), which documents Metropolitan's consumptive use of 815,618 AF of Colorado River water in 2020. In 2020, Metropolitan also created 338,308 acre feet (AF) of Extraordinary Conservation Intentionally Created Surplus (EC ICS) for a final Lake Mead storage balance of approximately 1.3 million acre-feet. The Calendar Year 2020 Colorado River Accounting and Water Use Report: Arizona, California, and Nevada is now available on Reclamation's website at: <https://www.usbr.gov/lc/region/g4000/wtracct.html>. Water Resource Management (WRM) staff helped to lead a two-day "Colorado River General Manager Workshop" with the outgoing General Manager (GM) on Colorado River issues. The first day was a retrospective of the GM's key activities on the river during his tenure, including his work on Metropolitan's Palo Verde Irrigation District (PVID) Fallowing Program, the Quantitative Settlement Agreement, the Lower Colorado River Multi-Species Conservation Program (MSCP), the 2007 Interim Guidelines, and the 2019 Colorado River Drought Contingency Plan (DCP). The second day focused on future activities, including potential DCP contributions by Metropolitan, working within existing MSCP coverage limitations, adapting to long-term hydrologic trends, and Metropolitan strategies for negotiating the post-2026 Colorado River reservoir operation guidelines.

WRM staff remotely participated in visits to the sites of six agricultural water conservation projects in the Lower Colorado River Basin (Lower Basin), which are serving as case studies in the Lower Colorado River Basin Agriculture Water Savings Pilot Study (Ag Pilot). The purpose of the Ag Pilot is to evaluate methods for quantifying water savings from agricultural conservation projects in the Lower Basin, with the ultimate aim of developing best practices.

Objective #7 Support Capital Investment Program planning.

Two WRM staff participated virtually on the Capital Investment Program (CIP) Review Committee pre-kickoff meeting in preparation for the upcoming two-year CIP cycle (FY 2022/23 and FY 2023/24). CIP Office explained the responsibilities of the committee and welcomed both new and returning committee members. Because of COVID-19 restrictions, WRM staff, along with staff from several other groups, will participate in virtual site visits in June 2021. The Review Committee will begin reviewing CIP proposals for FY 2022/23 and FY 2023/24 in July 2021.

GM STRATEGIC PRIORITY #2: Sustainability

Objective #2 Complete the 2020 Urban Water Management Plan.

At its May meetings, the Metropolitan Board of Directors unanimously adopted Metropolitan's 2020 Urban Water Management Plan (UWMP), Addendum to 2015 UWMP on Reduced Delta Reliance reporting (Addendum), and Water Shortage Contingency Plan (WSCP) and their respective resolutions. Staff provided a description of the milestones accomplished in preparing the plans and addressed comments received during the public hearing related to the reporting of Metropolitan's water reliability assessments.

Staff is now preparing to satisfy submission requirements to the State. As required by the California Water Code, plans need to be submitted no later than 30 days after adoption and before July 1, 2021, to the Department of Water Resources, California State Library, and all cities and counties within the service area. The final plans will also be made available to the public through posting on Metropolitan's website: www.mwdh2o.com.

WATER RESOURCE MANAGEMENT *continued*

Staff also continues to work with Department of Water Resources (DWR) as they finalize the DWR Submittal Tables, including the new reporting for Energy Intensity. These DWR Submittal Tables will be used in the Water Use Efficiency Portal as part of the required electronic submittal of suppliers' UWMPs.

Objective #3 Monitor development of climate science and incorporate updated information into Integrated Water Resources Planning approach.

Staff continued to engage with expert consultants in the field of climate change in technical discussions to help inform refinement of scenario assumptions and prepare for the climate change expert panel workshop at the Board Integrated Resources Plan (IRP) Special Committee meeting on May 25.

Objective #4 Manage existing and develop new regional water management programs to maintain water supply reliability in the face of increasing water supply volatility.

Staff continues close collaboration with DWR for the Lake Perris Seepage Recovery Project. This project aims to recover 7,500 AF per year of State Water Project water that is currently seeping from Lake Perris. Metropolitan will receive 63 percent of the water recovered, with the remaining recovered water shared between Desert Water Agency and Coachella Valley Water District. The most recent estimated unit cost for the recovered water is approximately \$250 to \$350 per acre-foot. DWR issued the Draft Environment Impact Report (DEIR) on May 7, 2021. The public comment period will close on June 21, 2021. DWR is expected to certify the Final EIR and file the Notice of Determination in October 2021.



Lake Perris Seepage Project

WATER RESOURCE MANAGEMENT *continued*

Objective #8 Implement Regional Conservation Program.

Staff represented Metropolitan at various DWR workgroups and with interested party stakeholder groups relating to water conservation legislations, Senate Bill 606 (SB 606) and Assembly Bill 1668 (AB 1668) (Making Conservation a California Way of Life). SB 606 and AB 1668 established guidelines for efficient water use and a framework for the implementation and oversight of the new standards, which must be in place by 2022.

Staff chaired California Water Efficiency Partnership (CalWEP)'s landscape task force committee and program committee meetings to discuss various statewide conservation projects. Sustainable landscaping and smart water rebates are examples of conservation programs offered by CalWEP. Implementation of conservations programs are especially important during this year's critically dry conditions.

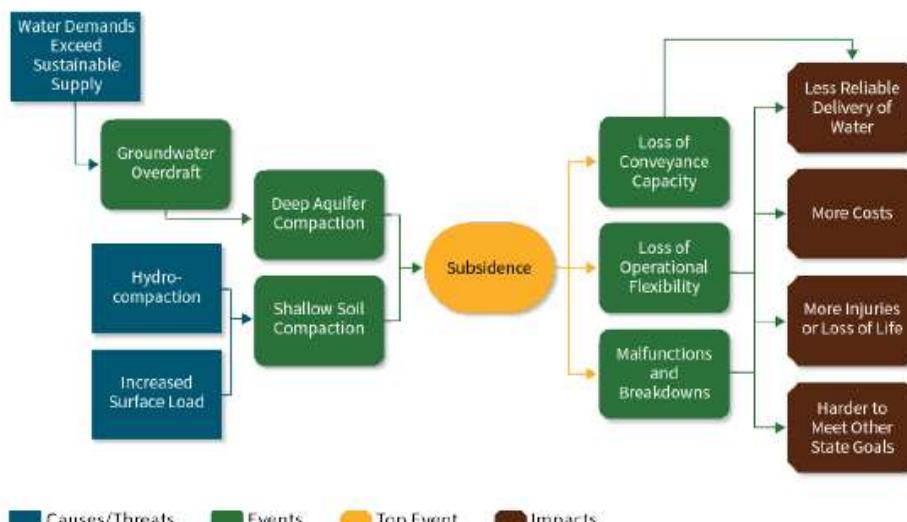
OBJECTIVE #9 Ensure cost-effective State Water Project supplies

Staff participated in DWR's Operations, Maintenance, and Engineering Committee (OME) meeting. DWR staff informed the SWP contractors on the current status of the Sisk Dam Seismic Upgrade Plan and the California Aqueduct Subsidence Program:

- California Aqueduct Subsidence Program:
 - Projects related to raising the embankment and liner in Pools 24 and 25 are under construction and should be completed this spring;
 - Geotechnical exploration for Pools 17, 18, 20, and 21 are planned to start in Fall 2021 and continue to Spring of 2022.

DWR is taking a "risk-informed approach to recovery" (graphic below) to guide both the rehabilitation and the recovery projects. The rehabilitation projects are the projects being addressed immediately. These projects are expected to last until 2026 and cost around \$430 million. The recovery projects that will address the long-term impacts of subsidence is currently under development and will begin work in 2025.

Risk-informed Approach to Recovery



"Risk-informed approach" taken by DWR on the California Aqueduct Subsidence Program

WATER RESOURCE MANAGEMENT *continued*

GM STRATEGIC PRIORITY #3: Innovation

Objective #2 Collaborate with member agencies, water agencies and associations, and provide leadership for policy development, advocacy, outreach and education.

Staff provided public testimony at the April 23, 2021, Santa Ana Regional Water Quality Control Board public hearing on a tentative National Pollutant Discharge Elimination System Permit for the proposed Poseidon Resources' Huntington Beach Desalination Facility. The testimony noted that such projects can help our region achieve resiliency by diversifying our overall supply portfolio, but that it is the role of local agencies to determine the need for such local projects.

Staff co-sponsored CalDesal's Spring Briefing webinar on May 11. The briefing featured an update on the National Alliance for Water Innovation (NAWI) and a discussion of State and Federal funding opportunities.

Staff also participated in NAWI's spring virtual workshop.

Objective #3 Implement Future Supply Actions Funding Program.

The results of two potable reuse studies co-funded under Metropolitan's Future Supply Actions Funding Program were presented at The Water Research Foundation's June 2nd webcast. The webcast covered a water quality model for predicting potable reuse treatment plant performance as well as a study of pathogen levels in wastewater treatment plant influent and effluent.

Objective #5 Position Metropolitan as a leader in Open Water Data.

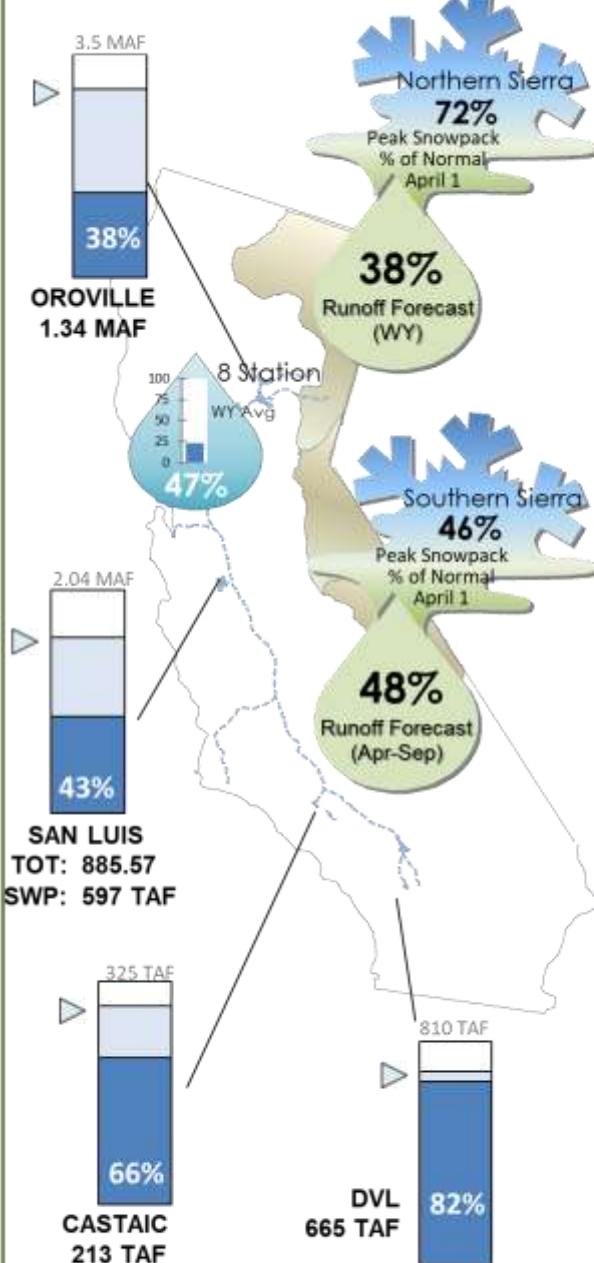
Staff completed external training (Carpentries instruction certification) in order to improve the application of data science methods on Metropolitan projects and are actively planning data science workshops for Metropolitan employees. This will help Metropolitan staff improve their data management and analysis skills and further efforts to position Metropolitan as a leader in Open Water Data.

The California Water Data Consortium, the Environmental Defense Fund, and several state water agencies have announced a new partnership to develop an open-source groundwater accounting platform to help groundwater sustainability agencies manage the transition to sustainable supplies. Metropolitan staff served on the Consortium Steering Committee, which approved this project and will assist in its implementation via Consortium Working Groups.

WATER RESOURCE MANAGEMENT *continued*

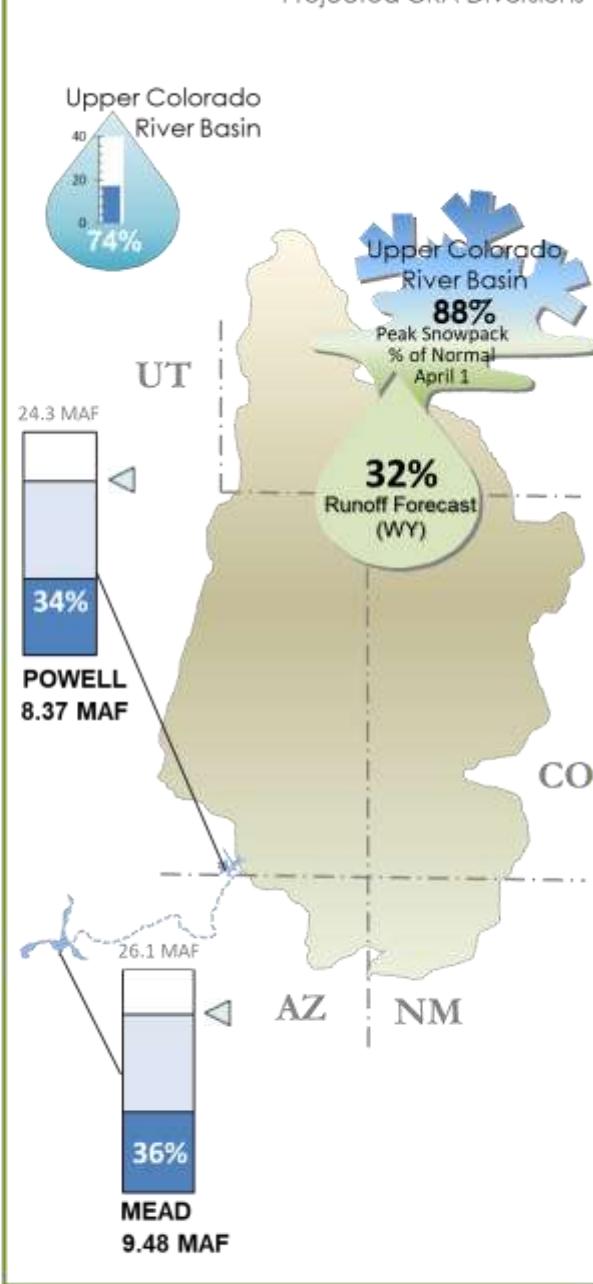
2021 SWP Allocation

95,575 AF
5% of Table A

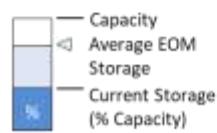


2021 Colorado River

1,085,000 AF
Projected CRA Diversions



WY to Date (in)



Peak Snowpack % of Normal April 1

Runoff Forecast WY

As of May 31, 2021

WATER SYSTEM OPERATIONS

GM STRATEGIC PRIORITY #1: Resiliency

Objective #1 Provide Reliable Water Deliveries.

Metropolitan delivered approximately 141,289 acre-feet (AF) of water to member agencies in May. Deliveries averaged approximately 4,558 AF per day, which was 54 AF per day higher than April's deliveries. Treated water deliveries totaled 70,827 AF, or 50 percent of total deliveries for the month. This was an increase of about 12,755 AF from April's treated water deliveries. The CRA continued an eight-pump flow with a total of 107,160 AF pumped for the month. SWP imports averaged 1,581 AF per day, totaling about 49,021 AF for the month, which accounted for about 35 percent of Metropolitan's deliveries. The reduction in SWP imports compared with those of April is partly due to the startup of delivering Diamond Valley Lake (DVL) water to the Mills plant on May 13. This is a historic, new operation for Metropolitan that helps to conserve SWP in light of the low allocation this year. The target SWP blend remained at zero percent for the Weymouth, Diemer, and Skinner plants.

Objective #2 Ensure Water Quality Compliance, Worker Safety, and Environmental Protection.

Metropolitan complied with all water quality regulations and primary drinking water standards during April 2021.

During the week of May 24, staff participated in sensory training to assess flavor and aroma profiles of source and treated drinking water, as part of Metropolitan's longstanding Flavor Profile Analysis (FPA) program. Although not a primary regulatory requirement, the FPA program is essential to reservoir and treatment plant operations, critical to ensuring that Metropolitan's water is aesthetically pleasing and helps to instill customer confidence in the safety of drinking water. It also evaluates the Threshold Odor Number (TON), a secondary drinking water standard.



Staff practicing appropriate social distancing and other COVID-related safety precautions during FPA training (face masks must be removed for actual FPA testing)

Staff published a new Safety Talk on Removal of Flanges and Valves for Dewatering on the SRS IntraMet webpage. The Safety Talk provides information on safe procedures for removing flanges, valves, and other pipeline components for dewatering. This is a common task during shutdowns and other routine pipeline maintenance activities.

WATER SYSTEM OPERATIONS *continued*

MWD Safety Talk

Employee Environmental, Health & Safety Information

Removal of Flanges and Valves for Dewatering



Working with Flanges and Valves

On dewatering, flanges, valves, and other piping components will need to be removed during dewatering. This is a common task found in many different industries and construction activities. Working with a live system is not safe property. Efforts should be taken to isolate or eliminate static pressure before breaking off a live. However, unless required, always assume there is static pressure present.

Potential Hazards

- Static release of pressurized water striking employees.
- Static release of large amount of water during dewatering.
- Static reconnection of components being removed and fitting opening components.

Before Flange Removal

- Ensure the tool person has appropriate protection covering a flange. This approach is commonly provided when it is deemed or expected that the flange to be removed will not be under-pressure nor live. There may be situations where the tool will experience a pressure or vibration condition due to the nature of the work. If this is the case, the tool person must take steps to ensure they are protected from the potential hazard by taking protective measures. If it is anticipated, and the pressure or vibration condition is unavoidable, then the crew must cover the removal and immediately report it to the shift lead and another manager. The shift lead and manager will then provide directions on how to proceed.
- Ensure the proper procedure or qualification (JIC/JCI) is in place.
- Have a plan in place for the job. The plan should include the steps required for removing the flange and isolated components.
- Ensure a crew that are engaged in the job. Work area must have immediate communication with each other and that they know what each other is doing or going to do.
- All tools in the plan must function properly and a large quantity of backup will suffice.
- Progress of the project items, materials, and equipment to complete the job. Outline any required tools for any damage.
- Ensure that appropriate spill containment is available near any valves.
- Plan for safe emergency response out of the emergency kit or an unanticipated release of water.
- Be part of your resource (PTO, Minimum PTO, Visual R&R, Safety Meeting, Review, and Close Out Sheets).

Preparation of the Flange

- It is imperative to ensure the flange insulation or cap remains intact, or that any potential insulation and access inside the pipe is removed static and conditions.
- Tools or a lead. As one operates the wrench gap, the other holds the tool to prevent.
- If the pipe is being prepared for welding, ensure the proper protection is applied to the inspection port holding the liner that you are going to operate it. Having thick book or just cut sections of old oil paper in existence or communication direction.

New Safety Talk—Removal of Flanges and Valves for Dewatering

Staff submitted the mandatory California Air Resources Board (CARB) Large Entity Reporting (LER) Survey that identifies Metropolitan's light/medium through heavy duty trucks (Class 2b through Class 8) and their operational parameters. CARB will use the LER surveys, completed by large commercial fleets and government agencies, to develop the Advanced Clean Fleet (ACF) regulation, which will require the transition to zero emission vehicles by 2045 where feasible. Staff continues to work with other public agencies to compel CARB to adopt an ACF regulation that allows technology to advance and recognizes the operational demands of essential public service vehicles.

Objective #3 Actively Engage in Capital Project Planning and Execution.

As part of the Diemer Water Sampling System Improvements capital project, new sample lines were installed throughout the plant. The new sample lines bring representative water samples from different parts of the plant to the plant laboratory. The new lines allow staff to accurately monitor the treatment process and ensure that the plant meets water quality regulations and guidelines. Staff labeled each new sample line for ease of identification.

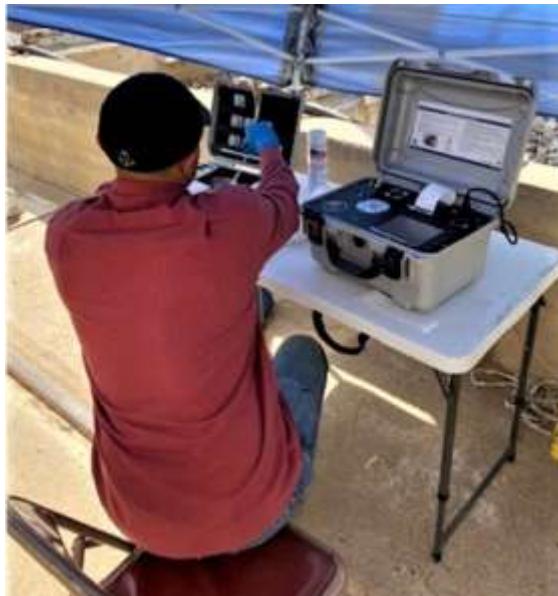


Staff installing labels on new samples lines at the Diemer plant

WATER SYSTEM OPERATIONS *continued*

Objective #4 Optimize Maintenance.

As part of high-voltage transformer maintenance along the Colorado River Aqueduct, transformer oil dissolved gases are monitored using dissolved gas analysis (DGA). Using DGA provides advanced warning of developing faults within a transformer, allowing staff to perform preventative maintenance ahead of an outage.



Staff conducting dissolved gas analysis testing on a CRA high-voltage transformer

The Colorado River Aqueduct (CRA) has a combined lift of 1,617 feet. This is accomplished using five pump plants with each plant having nine pumps each. Each of these pumps are supported by smaller circulating water pumps, which provide cooling for electrical and mechanical components. As part of an annual preventative maintenance program, the circulating water pumps are removed from service and the associated electrical apparatus are inspected, tested, and repaired as necessary.



Staff completing electrical maintenance on the cooling water equipment at Gene pumping plant

WATER SYSTEM OPERATIONS *continued*

To ensure reliable operation of the high-voltage transformers used to power the CRA main pumps, staff uses oil purification equipment to reduce gas, moisture, and particulates in the transformer oil. The purification process uses heat, vacuum extraction, and filtration to remove contaminants. This extends the life of the oil and reduces waste that requires special handling.



Staff servicing oil purification equipment along the CRA

A pump unit's electrical rotor became contaminated with oil caused by a leak discovered within the unit at Intake pumping plant. The leak was repaired, and the oil now needs to be cleaned from the remaining electrical components to ensure continued safe and reliable operation. The rotor is scheduled to be steam-cleaned, dried, and tested before reassembly.



A pump unit's electrical rotor staged for cleaning at Intake pumping plant

WATER SYSTEM OPERATIONS *continued*

The CRA is currently at an eight-pump flow. The last time the CRA was at an eight-pump flow was October 2015. Operating in this mode requires staff to use the pump plant head gates to adjust the overall flow rate and ensure that water flow does not exceed the CRA's flow capacity. This requires increased patrols and water level measurements, as well as close coordination across operations with engineering staff to ensure safe and reliable deliveries during this drought year.



Eight-pump flow along the CRA

The La Verne Shops manufactured a large packing box, and three sets of large lantern rings for the Department of Water Resources' (DWR) Gianelli Pump Generating Plant. The packing box holds the sealing components that prevent water from entering internal portions of a pump. The La Verne Shops, working in conjunction with DWR and Metropolitan's Materials and Metallurgy staff, enhanced the original, all-carbon-steel design to provide a virtually corrosion-free replacement part. This included a new packing box made from a stainless-steel forging and a carbon steel mounting flange that was coated with corrosion resistant high solids epoxy. The lantern rings were machined from centrifugally cast high-strength bronze rings. After manufacturing, Metropolitan's engineering surveyors performed a 3-D laser inspection of the new lantern rings and packing box. The packing box and lantern rings were inspected against a 3-D computer aided design (CAD) model created by La Verne Shop staff and verified within manufacturing tolerances. This work is an example of Metropolitan's continued efforts to support reliability of State Water Project infrastructure.



Machining top lantern ring half (left) and finished top lantern rings (right) for a pump unit at DWR's Gianelli Pump Generating Plant

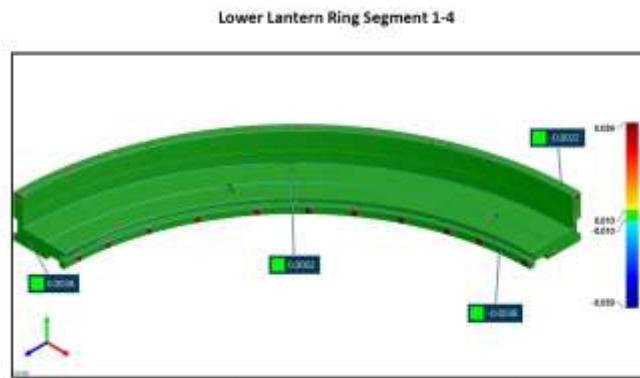
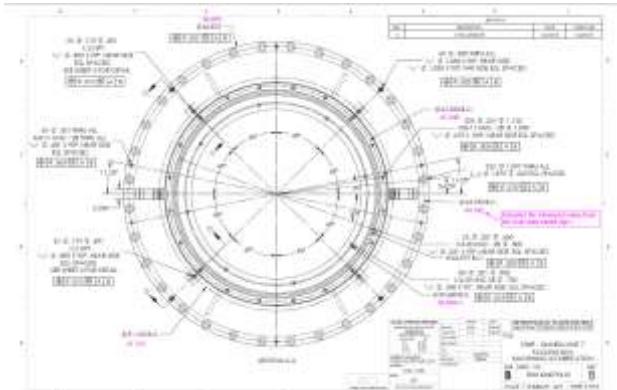
WATER SYSTEM OPERATIONS *continued*



Lantern rings being test fit in the packing box (left) and packing box assembly after coating (right) for a pump unit at DWR's Gianelli Pump Generating Plant



Field surveyors using a 3-D laser scanner to inspect one of the lantern rings for a pump unit at DWR's Gianelli Pump Generating Plant



3-D CAD model of the packing box (left) and color deviation map for a lantern ring segment (right)

WATER SYSTEM OPERATIONS *continued*

Staff completed an external pipeline inspection of the Santa Monica Feeder. Recently, Engineering completed a pipe inspection utilizing an innovative technology (pipe diver) that allows internal inspections while the pipeline remains in service. After staff reviewed the pipe diver results, one location that indicated potential corrosion, but within acceptable limits, was identified for an external inspection. Staff worked closely with Engineering to select a suitable location for inspection without disruption to the community. Staff completed the excavation and exterior inspection, confirming the internal pipe data was correct and made external coating repairs to prevent further external corrosion of the pipe.



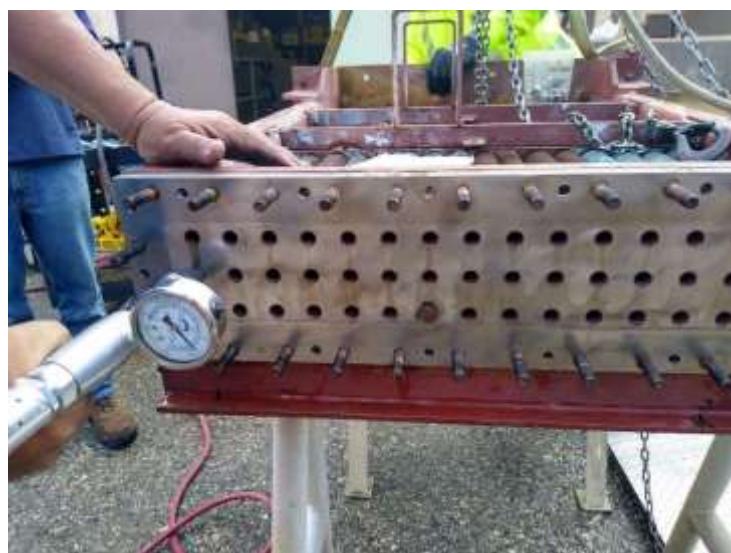
Staff installing aluminum shoring box (left) and feeder showing the exterior wall loss (right) at the Santa Monica Feeder



Staff backfilled excavation (left) and completed site restoration (right) at the Santa Monica Feeder

Staff performed maintenance on the Corona hydroelectric plant (HEP) radiators. Warm air from the generator passes over the water-filled radiator tubes to keep the high-voltage generator cool and operating efficiently. These tubes require routine cleaning and testing to ensure that water flows freely and does not leak into the generator.

WATER SYSTEM OPERATIONS *continued*



Staff removing air cooler (left) and performing leak testing of the tubes (right) at Corona HEP

Staff performed maintenance on critical electrical equipment at the OC-88 pump station during the Allen-McCulloch Pipeline shutdown. OC-88 supplies water to south Orange County. The electrical equipment provides power and supports communications at the facility. Routine and corrective maintenance is required to ensure the reliability of the power system and facility operations.



Staff connecting a newly replaced insulator at the OC-88 pump station

WATER SYSTEM OPERATIONS *continued*

Staff performed troubleshooting of a traveling bridge crane at Corona HEP in western Riverside County. These cranes are crucial for routine and corrective maintenance to keep the unit generating electricity, which is placed back onto the power grid.



Staff troubleshooting a traveling bridge crane at Corona HEP

Staff is currently working on a facility-wide effort to retrofit and replace all outdoor lighting fixtures with energy efficient LED fixtures at the Weymouth plant. These fixtures will improve the quality and level of illumination for staff and will also reduce energy consumption costs. The new fixtures provide an extended life cycle, reduce maintenance and repair costs, and provide improved lighting for security. Staff recently replaced existing fixtures on the Junction Structure at the south end of the plant, which reduced the energy consumed by the outdoor lighting at this location by about 60 percent while increasing the effective illumination by approximately 20 percent.



Staff installing floodlights using a 65-foot lift at the Weymouth plant

WATER SYSTEM OPERATIONS *continued*



Weymouth Junction Structure with new 100-watt LED floodlights

Staff replaced an air gap meter with a factory-certified meter at the Weymouth plant. This meter totals the amount of solids being discharged to the Los Angeles County Sanitation Districts system. The plant has two meters that are used interchangeably to ensure accuracy and reliability. In the event of online meter failure, staff can remove and replace it with the standby meter. Each year, one of the meters is sent out for certification and replaced with a certified unit.



Air gap meter (left) and staff preparing to switch the meter (right) at the Weymouth plant



Technician programming newly certified meter at the Weymouth plant

WATER SYSTEM OPERATIONS *continued*



Los Angeles County Sanitation Districts air gap discharge line at the Weymouth plant

Staff returned the Lakeview Pipeline to service after last month's maintenance and repair work. The work included installation of bulkheads to facilitate one of Metropolitan's drought response actions by allowing water from Diamond Valley Lake (DVL) to be delivered to the Mills plant. Delivering water from DVL exposes the pipeline to higher operating pressures that are within the design parameters but outside historical operating ranges. Accordingly, staff performed the refill slowly and monitored the pipeline for leaks. During refill, a minor leak was discovered at a pipe joint, and the La Verne Shops staff fabricated a large steel band, which in-house construction staff installed across the leaking joint. Before installation, staff removed and replaced a portion of the existing mortar lining to fit-up and weld the segmented steel band to match the internal diameter of the pipe. This work involved extensive collaboration between operations and engineering staff. With this repair, water can now be diverted from DVL to the Mills plant using the Lakeview Pipeline, when needed, as a valuable drought mitigation measure to preserve SWP water. During this new and historic operation, staff will continue to monitor the pipeline through regular patrols.



Large steel band being rolled (left) and two segments rolled (right) in the La Verne Shops to support the Lakeview Pipeline repair

WATER SYSTEM OPERATIONS *continued*



Staff excavating to identify exact location of the leak on the Lakeview Pipeline



Staff welding large steel band to repair leak on the Lakeview Pipeline

WATER SYSTEM OPERATIONS *continued*



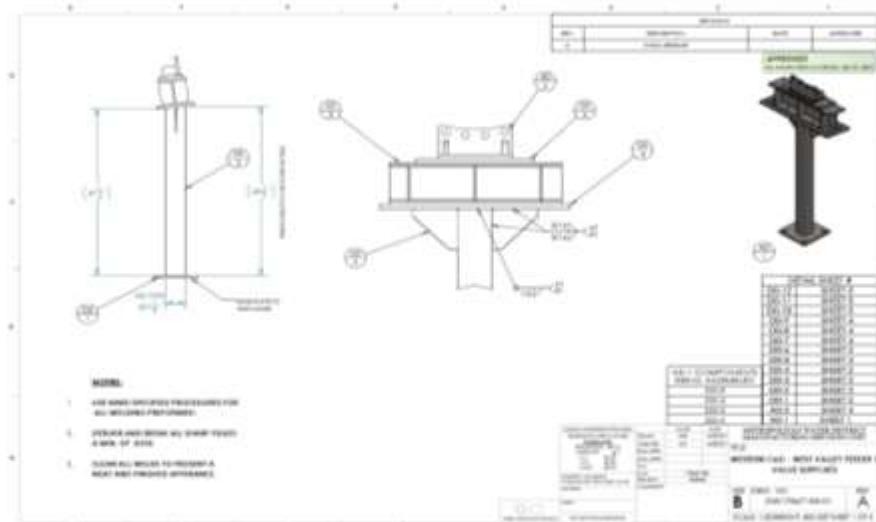
Staff mortar lining and coating area after installation of the steel band on the Lakeview Pipeline



Staff fitting and welding the segmented steel bands on the Lakeview Pipeline

WATER SYSTEM OPERATIONS *continued*

West Valley Feeder No. 1, which stretches across the northern San Fernando Valley, was removed from service for a planned outage from April 23 through May 7. This underground vault houses a large butterfly valve used for isolation and flow control and a smaller bypass line used for filling the pipeline after shutdowns. The valve has been primarily used for flow control for the past 57 years, and the excessive wear has limited its ability to provide leak-tight isolation when the valve is fully closed. During the shutdown, staff completed visual and electromagnetic inspection of approximately eight miles of pre-stressed concrete cylinder pipe and replaced the leaking isolation valve at the De Soto Avenue valve structure with a new isolation valve and multi-orifice control valve. The new butterfly valve will provide isolation for future pipeline inspections and maintenance, and the new multi-orifice valve will be used to control flow to improve reliability and extend the equipment service life. La Verne Shops staff fabricated the valve mounts and supports used to install the butterfly and multi-orifice control valves. Staff also replaced smaller aging valves and made piping and structure improvements at various locations along the feeder. To facilitate the inspection work, 40 pipeline access flanges were removed and replaced. The valve and actuator that were removed from service were transported to be sold for scrap metal as part of salvage recovery efforts.



3D CAD model of valve support assembly to support the De Soto Avenue Sectionalizing Valve Structure Upgrade Project



Fabrication of the valve support and plate in process by the La Verne Shops

WATER SYSTEM OPERATIONS *continued*



Valve support, post, and plate ready to ship after primer applied at the La Verne Shops



Staff removing old butterfly valve (left) and cutting 42-in pipe (right) for the De Soto Avenue sectionalizing valve on the West Valley Feeder No. 1



Staff welding 42-in flange (left), installing the multi-orifice valve (middle), and verifying valve limits for the De Soto Avenue sectionalizing valve on the West Valley Feeder No. 1

WATER SYSTEM OPERATIONS *continued*



Staff removing a pipeline flange along West Valley Feeder No. 1



Staff performing piping fit-up during a shutdown of West Valley Feeder No. 1

WATER SYSTEM OPERATIONS *continued*



Staff using a crane to remove an old butterfly valve along West Valley Feeder No. 1



Staff guiding the new multi-orifice valve into place during the West Valley Feeder No. 1 shutdown

WATER SYSTEM OPERATIONS *continued*

Objective #6 Improve Emergency Preparedness and Response.

Metropolitan staff prepare for emergencies as the pandemic continues. Staff assigned to Metropolitan's Emergency Operations Center (EOC) and the multiple Incident Command Posts (ICPs) has been participating in a series of emergency exercises designed to refresh its skills and practice managing Metropolitan's response to a major emergency. The exercise series included lessons-learned from Metropolitan's initial response to COVID-19, utilized technologies that support virtual operations, and adhered-to state and federal guidelines. Since April, EOC and ICP staff has participated in over 25 seminars and tabletop exercises, all centered around a significant seismic event.

Objective #7 Optimize Water Treatment and Distribution.

The State Project water (SPW) target blend entering the Weymouth and Diemer plants, and Lake Skinner was zero percent in May 2021.

Flow-weighted running annual averages for total dissolved solids from March 2020 through February 2021 for Metropolitan's treatment plants capable of receiving a blend of SPW and CRA water were 581, 583, and 519 mg/L for the Weymouth, Diemer, and Skinner plants, respectively.

Staff performed annual maintenance and cleaning of an ozone contactor at the Diemer plant. Routine maintenance and cleaning are performed on each of the four ozone contactors to ensure consistent system performance and optimized water quality. Staff removed quagga shells, cleaned the ozone diffusers, and tested air flow through the diffusers before returning the contactor to service.



Staff cleaning ozone diffusers at the Diemer plant

WATER SYSTEM OPERATIONS *continued*

Staff is upgrading the Module 1 traveling bridge at the Skinner plant to improve remote control and functionality with a programmable logic controller (PLC). The traveling bridge functions to vacuum the sludge from the bottom of the sedimentation basin. The bridge slowly traverses the length of the basin removing the sludge over a period of approximately one hour. The improvement in having remote monitoring will provide immediate indication to the operators if there is trouble with the bridge during the lengthy operation. The additional information also allows for simpler and faster troubleshooting and increased reliability.



Staff installing PLC on the Module 1 traveling bridge at the Skinner plant

Objective #8 Manage Water Reserves.

Water reserves continued to be managed according to Water Surplus and Drought Management (WSDM) principles, operational objectives, and the current 5-percent SWP allocation. Deliveries of SWP supply were minimized to preserve SWP Carryover and Flexible Storage. Releases from DVL through PC-1 to connections on the Lakeview Pipeline continued in May to conserve SWP use in that area, and on May 13, for the first time, deliveries from DVL to the Mills plant began to further reduce the demand on limited SWP supplies this year. Returns from the Semitropic and Kern Delta SWP Banking Programs also continued in May. Staff coordinated additional special operational actions to minimize SWP use in May for implementation later in the year, including operating the Greg Avenue pumps to deliver Colorado River water west to the Jensen service area, and member agencies shifting their deliveries from SWP connections to Colorado River connections, when possible. The Metropolitan Board, with support from staff, approved a new Operational Shift Cost Offset Program in May to provide cost recovery for agencies that shift SWP supplies onto other supplies. Along with these actions, taken to respond to drought conditions, Metropolitan's record high storage levels at the end of 2020 provide significant water supply reliability in 2021.

Objective #10 Manage Vacancies.

WSO filled five vacant positions in April 2021.

WATER SYSTEM OPERATIONS *continued*

Objective #11 Prepare Employees for New Opportunities.

The Water System Operations Apprentice and Technical Training Program develops and trains personnel to become qualified mechanics and electricians responsible for maintaining Metropolitan's water treatment and distribution systems. This month, apprentices will enjoy being instructed by subject matter experts. The Class of 2021 mechanical apprentices will attend a class on Cla-Val valves and begin replacing valves on a demonstration trainer. Journey level staff will be assisting with this training. This will help apprentices gain an understanding of how valves work and how to replace or rebuild valves in the field. The Class of 2023 electrical apprentices completed their midterm exams this month and will continue learning about electrical equipment sizing.



Mechanical apprentices during class on Cla-Val valves

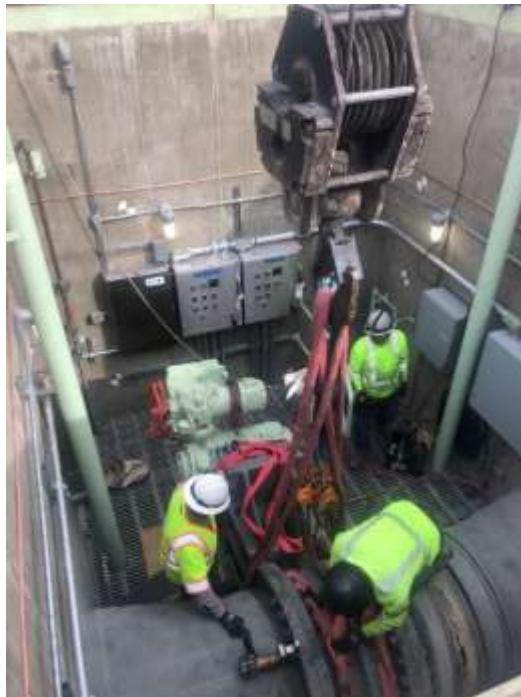
Objective #13 Ensure Accurate Billing Infrastructure.

Staff installed all new electrical components as part of the De Soto Valve Replacement capital project. This month, before and during the West Valley Feeder No. 1 shutdown, staff installed two new valve control cabinets, conduit, and wiring to a new butterfly valve and multi-orifice valve at the CA-03 metering structure. Staff also installed all new power distribution panels along with lighting, power, and grounding to the structure. The new butterfly valve will help isolate the feeder with no leakage. The new multi-orifice valve will help control flow when CA-03 is in service.

WATER SYSTEM OPERATIONS *continued*



New control panels for two new valves installed at the CA-03 metering structure along the West Valley Feeder No. 1



Staff removing a butterfly valve at the CA-03 metering structure

WATER SYSTEM OPERATIONS *continued*



New orifice valve (left) and new butterfly valve (right) for the CA-03 metering structure

Staff installed a new automated meter reading (AMR) cabinet at the Skinner plant. This cabinet will be used to provide flow information from the Skinner plant effluent 2 (SKPE 2) pipeline. Staff excavated and placed the AMR cabinet pedestal next to the existing structure, ran conduit from the new AMR cabinet to the flowmeter inside the structure, and ran another conduit from the structure power distribution center to the new AMR cabinet. The flowmeter will provide information on the bypass line around the butterfly valve at the SKPE 2 structure to provide accurate billing.



Staff excavating for the AMR cabinet pedestal (left) and running conduit to the new AMR cabinet (right) at the Skinner plant

WATER SYSTEM OPERATIONS *continued*

GM STRATEGIC PRIORITY #2: Sustainability

Objective #1 Prepare for Future Legislation and Regulation.

On May 3, the California Department of Public Health released new guidance stating that fully vaccinated employees do not need to self-quarantine if they were exposed at the workplace as long as they are asymptomatic. A person is “fully vaccinated” after two weeks of receiving the second dose of either the Pfizer-BioNTech or Moderna vaccines, or two weeks after the Johnson & Johnson vaccine. Whether vaccinated or not, employees must still follow masking and testing requirements per Cal/OSHA’s COVID-19 Emergency Temporary Standard (ETS). On May 7, Cal/OSHA proposed to extend its ETS to November 2021, as well as add that fully vaccinated employees or employees wearing respirators (e.g., N95 masks) are exempt from physical distancing requirements. In addition, after July 31, 2021, the ETS will require employers to provide respirators and respirator-use training to non-vaccinated employees for voluntary use. The revised ETS is expected to be adopted on May 20, 2021. Safety and Human Resources staff will discuss these revisions and their applicability to Metropolitan’s COVID-19 protocols.

On May 5, California Air Resources Board released a 15-day public comment draft of proposed amendments to the SF6 Regulation (Regulation for Reducing Sulfur Hexafluoride (SF6) Emissions from Gas Insulated Switchgear). Staff is working with the Joint Utilities Group (JUG) to refine language associated with the rule’s technical definitions, nameplate capacity modification, and a new notification procedure in the event of an emergency replacement of SF6-gas-insulated equipment caused by a system failure. Comments are due May 26, 2021, and the amendments will take effect in late 2021.

On May 5, staff completed a 10-session training series on compliance with the new environmental laboratory standard (The NELAC Institute (TNI) 2016 Standard) adopted by the State Water Resources Control Board’s Environmental Laboratory Accreditation Program (ELAP) in January 2021. For Metropolitan, compliance with the standard begins in stages from October 2021 through October 2023. The training series provided staff with critical information on implementation requirements. In light of the TNI Standard adoption, ELAP has agreed to align the biennial expiration dates for each of Metropolitan’s six laboratories to October 31, beginning this year. The aligned date eliminates multiple efforts in the certification renewal process.

On May 6, the Office of Environmental Health Hazard Assessment (OEHHA) recommended a notification level (NL) for the cyanotoxin *Anatoxin-a* at 4 µg/L, and interim NLs for the cyanotoxins *Saxitoxins*, *Microcystins*, and *Cylindrospermopsin* at 0.6 µg/L, 0.03 µg/L, and 0.3 µg/L, respectively. The Division of Drinking Water will need to adopt these NLs in accordance with a new stakeholder engagement process put into place by AB 2560. Staff is evaluating the potential impacts of these notification levels (if adopted) on Metropolitan.

On May 20, staff participated in a meeting organized by the U.S. Environmental Protection Agency to get input on improving public health protection from microbial contaminants and disinfection byproducts (MDBPs) in drinking water, as part of the information gathering process for potential revisions of the MDBP regulations.

Objective #3 Support the Regional Recycled Water Program

Staff continued testing, operations, monitoring, and maintenance at the Regional Recycled Water Advanced Purification Center (RRWAPC) demonstration facility. The third phase of challenge testing with an intentionally compromised membrane system continued in May, following completion of the first two phases in January and March. Staff coordinated with consultants and the Los Angeles County Sanitation Districts to support reverse osmosis (RO) brine sampling during challenge testing to evaluate the potential impact of the compromised MBR system on RO concentrate quality.

WATER SYSTEM OPERATIONS *continued*

Staff finalized a new testing and monitoring plan for the next phase of demonstration facility testing, which is expected to begin in late 2021 and will treat primary effluent with a secondary MBR. Comments from the Independent Science Advisory Panel were incorporated into this plan for submission to the state's Division of Drinking Water in June.

Staff completed various onsite projects to augment site safety and ease of operations, including pump repairs, electrical upgrades, and improvements in the onsite laboratory. Staff continued work on new chemical system manifolds to simplify operations and improve chemical handling safety.



Fouling on a reverse osmosis membrane element extracted for autopsy at the demonstration facility



Staff collects samples of membrane bioreactor filtrate to monitor water quality at the demonstration facility

WATER SYSTEM OPERATIONS *continued*



Staff collects samples from the RO system to evaluate nitrate removal at the demonstration facility

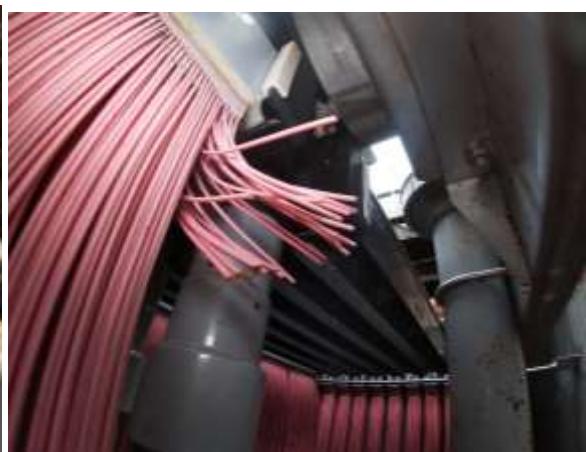


Staff fusion-welds PVDF piping for chemical tote manifolds to improve ease of operations and safety at the demonstration facility

WATER SYSTEM OPERATIONS *continued*



Corroded mixed liquor return pump (left), and staff removing corrosion, replacing worn parts, and reassembling the pump (right) at the demonstration facility



A pole-mounted camera was used to examine intentionally cut fibers inside the MBR tank as part of challenge testing at the demonstration facility

WATER SYSTEM OPERATIONS *continued*

Objective #5 Manage Power Resources and Energy Use in a Sustainable Manner.

Metropolitan's hydroelectric plants generated an average of 14 megawatts, or approximately 9,760 megawatt-hours, and about \$480,740 in revenue for the month of April 2021. Metropolitan's solar facilities, totaling 5.4 megawatts of capacity, generated approximately 940 megawatt-hours in April 2021.

Objective #6 Protect Source Water Quality.

On May 5, staff participated in the quarterly stakeholder meeting regarding perchlorate cleanup at the former Tronox site in Henderson, Nevada. The Nevada Environmental Response Trust reviewed results from site investigations, which will be included in a remedial investigation report and distributed to stakeholders for comments in July 2021. Staff continues to monitor the overall development of the long-term remedial plan and distribution of the Trust's funds for site cleanup to ensure continued protection of Colorado River water quality.

GM STRATEGIC PRIORITY #3: Innovation

Objective #1 Develop New Solutions to Enhance Operational and Business Processes.

Staff introduced a Clean Air Fleet Innovation initiative to support the goal of transitioning to clean, zero-emission vehicle and equipment technologies where feasible. The effort will review fuel options, new and replacement vehicle purchases, technologies, infrastructure, and incentive opportunities to bridge the transition to regulatory-mandated zero emission technology in the coming years. To comply with future zero-emission fleet vehicle regulations, staff participated in a manufacturer "show and tell" for two Freightliner all-electric prototype vehicles. Tentatively, the eM2 (class 6 or 7) truck will start production this fall and the eCascadia (class 8) truck will go into production in 2023. Staff will continue to investigate the feasibility of adopting the technology into Metropolitan's future operations.



Electric freightliner eCascadia (class 8) heavy-duty tractor cab

WATER SYSTEM OPERATIONS *continued*

Objective #2 Support and Engage with Member Agencies on Technical Matters.

On May 13, Metropolitan held a Member Agency Chloramine and Nitrification Workshop via webinar with over 200 participants representing 16 member agencies, 56 water utilities, and the State Water Resources Control Board. Presentations focused on chloramine chemistry; the biology of nitrification; Metropolitan's historical chloramine use; and nitrification prevention, monitoring, and control. In warm weather, nitrification can affect the quality of water in distribution systems, especially when water demand and flows are low.

WATER SYSTEM OPERATIONS *continued*

Monthly Update as of:

5/31/2020

<u>Reservoir</u>	<u>Current Storage</u>	<u>Percent of Capacity</u>
<i>Colorado River Basin</i>		
Lake Powell	8,366,000	34%
Lake Mead	9,480,000	37%
<i>DWR</i>		
Lake Oroville	1,341,472	38%
Shasta Lake	1,976,294	43%
San Luis Total	885,570	44%
San Luis CDWR	597,029	56%
Castaic Lake	213,060	66%
Silverwood Lake	67,309	90%
Lake Perris	117,398	89%
<i>MWD</i>		
DVL	665,118	82%
Lake Mathews	157,431	87%
Lake Skinner	37,269	85%



Hoover Dam



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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