



THE METROPOLITAN WATER DISTRICT
OF SOUTHERN CALIFORNIA

Board Report

Operations Groups

• June Operations Groups Monthly Activities Report

Summary

This monthly report for the Operations Groups provides a summary of activities for May 2025 in the following key areas:

- Enhance Workforce Safety
- Manage Business Operations, Budget, and Staffing
- Provide Reliable Water Deliveries and Manage Storage
- Develop New Supplies and Optimize System Flexibility
- Manage Power Resources and Energy Use in a Sustainable Manner
- Protect Source Waters and Ensure Water Quality Compliance
- Optimize Water Treatment and Distribution
- Protect Infrastructure and Optimize Maintenance
- Optimize Asset and Maintenance Management
- Enhance Emergency Preparedness and Response
- Prepare for Future Legislation and Regulations
- Advance Education and Outreach Initiatives
- Engage with Member Agencies and Other Stakeholders on Technical Matters

Purpose

Informational by the Operations Groups on a summary of key activities for the month of May 2025.

Attachments

Attachment 1: Detailed Report – Operations Groups' Monthly Activities for May 2025



Operations Groups

Core Business Objectives

Enhance Workforce Safety

Desert staff attended emergency medical skills training, which covered basic first aid, CPR, identifying stroke, and shock, and the use of an Automated External Defibrillator.



Staff training for emergency medical skills at Gene

Diemer plant staff is surveying all existing eyewash and safety showers throughout the facility. Most of the eyewashes and safety showers are equipped with audible alarms and strobe lights and will alarm in the control room when activated. The information from this survey will be used to standardize the design, equipment, and functionality of all eyewash stations and safety showers to improve response time and streamline maintenance.



Staff surveying eyewash and safety shower.

Manage Business Operations, Budget, and Staffing

Along with finalizing staffing submissions and finishing the strategic meeting sessions with the sections/units that began in April, the Business Management Team has been closely working with Business Support Team managers in preparation for the upcoming FY 2027-28 biennium budget process. This includes partnering with Finance and field teams to coordinate budget kick-off, preparation of budget development templates, and submission dates for later this year.

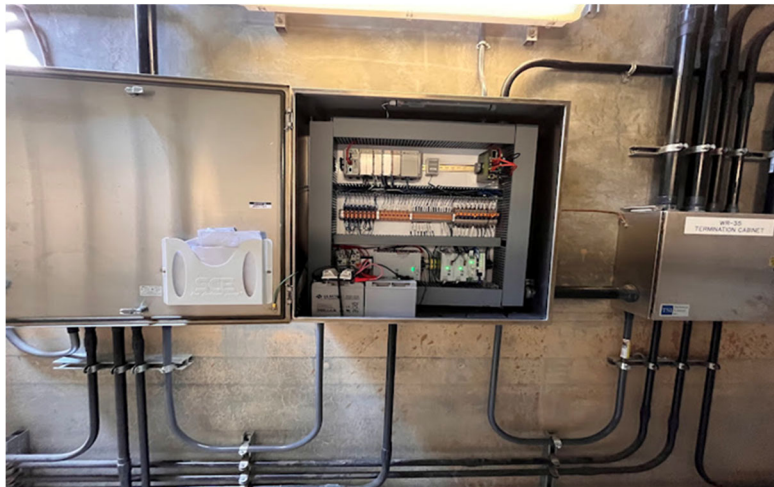
Provide Reliable Water Deliveries and Manage Storage

Metropolitan member agency water deliveries were 109,600 acre-feet (AF) for May, with an average of 3,500 AF per day, which was about 600 AF per day lower than in April. Treated water deliveries were 14,000 AF lower than in April, for a total of 59,700 AF, or 54 percent of total deliveries for the month. The Colorado River Aqueduct (CRA) pumped a total of 92,400 AF in May. State Water Project (SWP) imports averaged 2,000 AF per day, totaling about 61,900 AF for the month. The target SWP blend is currently 40 percent for Diemer, Weymouth, and Skinner.

Metropolitan has sufficient SWP and Colorado River supplies, in addition to storage, to meet demands in 2025. Water continues to be managed according to Water Surplus and Drought Management principles and operational objectives with an emphasis on positioning SWP supplies to meet future demands in the SWP-dependent area. The California Department of Water Resources (DWR) increased the SWP Allocation from 40 percent to 50 percent in late April. Metropolitan is continuing to manage Table A supplies to preserve supplies for the SWP-dependent area. At the same time, Metropolitan has shifted operations to manage surplus supplies. With the additional supplies, Metropolitan is delivering to member agency cyclic programs and to Desert Water Agency and Coachella Valley Water District in 2025.

Develop New Supplies and Optimize System Flexibility

With the recent completion of the Perris Valley Pipeline, staff completed the necessary work to place EM-24 into service. Mills electricians replaced several damaged electrical components, including a valve controller, ventilation equipment, and the main electrical service cabinet. Control systems technicians installed a new PLC-based RTU and a new Automated Meter Reading system. On May 2, service connection EM-24 went into service, providing an additional water supply to the Eastern Municipal Water District.



New remote terminal unit cabinet for EM-14

Operations

(continued)

Staff continued baseline monitoring for tertiary membrane bioreactor nitrification-denitrification testing and continued working with the Los Angeles County Sanitation Districts to prepare for procurement and installation of snail mitigation measures at the Pure Water Southern California Napolitano Innovation Center demonstration plant. Staff continued developing a reconfiguration plan to separate the current two-pass reverse osmosis (RO) system into two trains to allow testing of different types of RO membranes. Also, a carport was installed to provide covered storage as part of an upgrade to the on-site 90-day hazardous waste accumulation area.



Maintenance on drum screening equipment (left) and newly installed hazardous waste accumulation area (right) at the Napolitano Innovation Center

Manage Power Resources and Energy Use in a Sustainable Manner

Staff presented an informational item at May's Engineering, Operations, and Technology Committee on the status of affected system studies requested by external renewable generation developers, and the potential need for bridge agreements to be presented for board review and approval. Bridge agreements are agreements between Metropolitan and third-party generation developers that allow generation projects to connect to the grid and reach commercial operation on a temporary basis while detailed technical studies are still underway on their impacts on Metropolitan's CRA transmission system. These agreements allow generation projects to proceed in support of California's ambitious renewable portfolio standard goals while protecting Metropolitan's power and water operations.

Staff met with DWR representatives on progress and methodology for meeting their Senate Bill (SB) 1020 renewable energy goals. SB 1020 requires DWR's energy usage to be 100 percent renewable by 2035. As DWR's largest water contractor, Metropolitan pays approximately 70 percent of the SWP's annual energy bill. This represents, on an annual basis, as much as \$200-300 million in energy costs for Metropolitan. Staff is also participating in an ad-hoc risk oversight committee with other SWP contractors, monitoring DWR's progress toward this ambitious goal.

Staff attended the annual meeting of the Arizona Electric Power Cooperative (AEPCO) in May in Tucson, Arizona. Metropolitan is a Class D member of AEPCO and represents the largest single demand of any AEPCO member. AEPCO acts as transmission operator and scheduling coordinator for Metropolitan's transmission system, CRA pumping load, and allocation of hydropower at Hoover and Parker dams on the Colorado River. The keynote speaker of the annual meeting was Mark Rothleder, Chief Operating Officer of the California Independent System Operator, who discussed the expansion of the energy imbalance market (EIM) across the western United States and efforts to include AEPCO's footprint within the EIM.

Protect Source Waters and Ensure Water Quality Compliance

Metropolitan complied with all water quality regulations and primary drinking water standards during April 2025.

Throughout May, Water Quality partnered with Information Technology to develop an assessment and potential upgrade of the Laboratory Information Management System, which tracks water quality monitoring samples from the point of collection in the field through analysis and produces results for reporting to regulatory authorities.

The turbidity meters at multiple locations throughout Metropolitan's main system and the desert pumping plants were calibrated this month. Annual calibration is required to ensure the accuracy and reliability of data used for compliance and process monitoring.

Staff contributed to the state of California's Interagency Golden Mussel Response Framework, which was published in April and provides recommendations and guidelines to agencies and utilities to minimize the impact of invasive mussels on the environment, economy, and infrastructure. Staff also participated in the state's golden mussel task force meeting in May, which focused on public outreach, education, and mussel monitoring.

Optimize Water Treatment and Distribution

The SWP target blend entering the Weymouth and Diemer plants increased from 25 percent to 40 percent in May and from zero to 25 percent entering Lake Skinner. Flow-weighted running annual averages for total dissolved solids from March 2024 through February 2025 for Metropolitan's treatment plants capable of receiving a blend of supplies from the SWP and the CRA were 592 mg/L, 577 mg/L, and 571 mg/L for the Weymouth, Diemer, and Skinner plants, respectively.

Staff recently completed a shutdown on 6.5 miles of the Sepulveda Feeder and returned 7.3 miles of the Second Lower Feeder to service. During this outage, 1.2 miles of the Second Lower Feeder were steel relined, and three new 48-inch sectionalizing valves were installed at the Second Lower Feeder/Sepulveda Feeder interconnection. An internal inspection of the Sepulveda Feeder found no mortar damage. This outage also allowed for continued rehabilitation of the Oak Street Pressure Control Structure (PCS) on the Second Lower Feeder.



Staff assembling a 20-inch conical plug valve at Oak Street PCS.

In a coordinated effort to restore full fluorosilicic acid (FSA) injection capabilities at the Jensen plant, the temporary FSA tank installation is underway. Staff are installing fastening brackets to secure the tank and will be making necessary mechanical, electrical, and control system connections to put the system into service by the end of the month.



Staff core drilling chemical tank base for tie-down brackets at the Jensen plant.

The La Verne Shops received a request to refurbish a 72-inch sleeve valve for the DVL Secondary Inlet. The Shops manufactured and refurbished a multitude of components to restore the sleeve valve to the original equipment manufacturer's specifications. The Shops also assisted with the on-site assembly of the refurbished components.



As-found condition (left), weld build-up (middle) and completed refurbishment (right) for a component of the DVL sleeve valve



Corrosion on top side (left) and finished coating (middle and right) of a component of the DVL sleeve valve



As-found condition of stainless-steel sleeve (left and middle) and completed sleeve (right)



Assembly of DVL sleeve valve gate and inner sleeve

Operations

(continued)

Lake Skinner Outlet Tower is regularly chlorinated on a quarterly basis for a two-week duration as part of the quagga mussel control program. Chlorine gas is drawn under vacuum to the tower, and a set amount of chlorine is applied to prevent quagga mussels from growing in the influent of the Skinner plant. The last time tower chlorine was scheduled, a vacuum could not be established which indicated there was a leak in the piping. After excavating a portion of the piping, the leak point was identified. Staff replaced about 80 feet of 8-inch diameter PVC pipe to repair the leak.



Broken 8-inch, 45-degree pipe joint (left) and repaired pipe and joint (right) in the Skinner area

Operations

(continued)

Weymouth plant staff worked with a vendor to calibrate the air gap meter. This meter measures the discharge from the solids handling process into the Los Angeles County sanitary sewer system. To ensure that the plant's allotted amount of flow is not exceeded, the flow meter is calibrated annually. Using the air gap meter provides an efficient method to remove solids from the water treatment process.



Staff verifying flow rate for the air gap to the sanitary sewer at the Weymouth plant.

Staff is prefabricating new service lines for the domestic water tank at Iron Mountain. These will replace aging lines and valves on the exterior of the tank, improving operational performance and ensuring reliable operation and water quality.



Staff welding new piping (left) and new piping and fixtures (right) for the Iron Mountain domestic water tank.

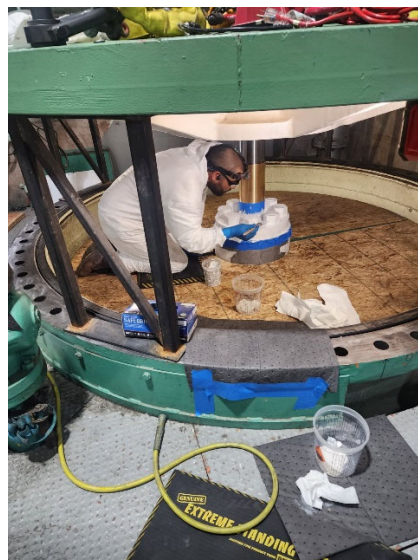
Protect Infrastructure and Optimize Maintenance

Metropolitan's CIP Evaluation Committee performed a site visit to Intake, Gene, and Eagle Mountain pumping plants. This committee reviews, prioritizes, and recommends allocations for capital projects throughout the district.



CIP Evaluation Committee at Eagle Mountain Pumping Plant

Staff continued refurbishment of a discharge valve at the Iron Mountain pumping plant. The Desert Coatings Team is performing the final touch-up coating applications to the attaching linkage from the actuating stem to the valve plug.



Discharge Valve coating applications at the Iron Mountain Pumping Plant

The Desert Pump Maintenance crew is installing a specialty hollow bore lathe with a 20-foot bed into their machine shop. This lathe gives staff the ability to machine discharge valve stems, pump shafts, and other intricate components critical to pump operations.



Staff installing a specialty lathe in the Gene machine shop.

Desert Powerline crew installed a new electrical service line from a power pole to a newly remodeled home in the Gene Camp south village area.



Staff installing a new electrical service line at Gene.

Operations

(continued)

Weymouth staff replaced a 50kW Uninterruptible Power Supply (UPS) unit at the San Dimas Pressure Control Facility. This unit provides redundant emergency backup power to the PCS valves and automated control systems, ensuring flow transfers can occur during a complete utility power outage or backup generator failure. The existing unit had exceeded its expected 10-year service life and required replacement.



Staff moving new UPS unit into position (left) and making electrical connections (right) at San Dimas PCS.

Staff began reassembly of the Secondary Inlet at Diamond Valley Lake including lowering portions of the 72-inch sleeve valve into position for assembly. This work will extend into the summer period due to its large scope.



Staff lowering a 72-inch sleeve valve segment into the DVL Secondary Inlet shaft.

Operations

(continued)



View of the 170-foot-deep shaft as a valve body piece is lowered into position (left) and staff preparing the flange face connection (right)

Optimize Asset and Maintenance Management

Staff completed the final workshops to evaluate the maturity of Metropolitan's asset management practices with executive management. Facilitated by a consultant, these sessions engaged managers and staff from key areas across the organization, including Operations, Engineering, Information Technology, Finance, Human Resources, Administrative Services, Office of Sustainability, Resilience and Innovation, and Office of Safety, Security, and Protection. Held both in-person and virtually to maximize participation, the workshops focused on increasing management awareness of how asset management supports their daily work, assessing current practices, and defining target maturity levels to reach over the next five years.

Discussions covered core areas to set the direction of asset management, such as the development of an asset management policy, strategic plan, and near-term objectives. A briefing with executive management is scheduled for later this year to provide an overview of the findings and a roadmap to be included in the upcoming update to the Strategic Asset Management Plan in 2026.



Discussions during the Asset Management Workshop

Enhance Emergency Preparedness and Response

Staff continued construction of the Diemer helicopter hydrant facility. The helicopter hydrant consists of an open-top tank and supporting infrastructure, allowing helicopters to collect water for firefighting quickly. Metropolitan collaborated with the Yorba Linda Water District to develop a project benefiting both agencies. The Yorba Linda Water District will provide up to \$500,000 in grant funding, technical support during design and construction, and coordination with the California Department of Forestry and Fire Protection and Orange County Fire Authority to ensure both agencies' design and operational conditions are acceptable. Metropolitan will own and operate the facility upon its completion this summer.



Staff installing electrical conduits for the heli-hydrant at the Diemer plant.

Staff participated in a Water Quality Incident Command Post tabletop exercise focused on the roles and responsibilities of the various positions, expanding staff participation in the ICP, and ensuring sufficient backup for each of the positions.

Prepare for Future Legislation and Regulations

In May, Metropolitan staff met with CARB's Advanced Clean Fleets (ACF) rulemaking team to discuss Metropolitan's unique operational needs across our service area, fleet composition, and emergency mobilization efforts during the January wildfire/extreme wind events. CARB is currently engaging with various utilities to collect public utility fleet data as they prepare to modify the ACF for state and local governments in their upcoming rulemaking effort scheduled for late 2025. Staff will continue to collaborate with CARB and monitor the progress of any future ACF rulemaking efforts.

Also in May, EPA announced that it plans to rescind its individual maximum contaminant levels (MCLs) for PFNA, PFHxS, and GenX Chemicals, as well as the Hazard Index concept for mixtures of select PFAS. EPA will only keep the individual MCLs set for PFOA and PFOS at 4.0 parts per trillion (ppt). Additionally, EPA plans to issue a proposed rule this fall to extend the compliance date for PFOA and PFOS to 2031 and anticipates finalizing the rule by Spring of 2026. These actions are in response to AWWA, AMWA, and several chemical industry associations filing Petitions for Review in 2024 asking a federal court to decide whether EPA acted appropriately when setting the MCLs and MCLGs for the six PFAS. Staff will continue to track and respond to any future developments with respect to PFAS.

Florida became the second state to ban fluoridation of drinking water. The statewide ban starts on July 1. In March, Utah became the first state to outlaw the practice. A handful of other states, including Ohio and Texas, and several local governments are weighing fluoride bans. Current California law requires water systems with 10,000 or more connections to fluoridate if funding is available. Metropolitan has adjusted the natural fluoride levels in its treated water supplies since 2007, in full compliance with federal and state drinking water regulations.

Staff submitted a comment letter in response to the State Water Board's updated draft language for its underground storage tank (UST) regulations. Staff comments were geared toward streamlining compliance for Metropolitan's 39 double-walled USTs that are located throughout its service area. The State Water Resources Control Board intends for the revised UST regulations to go into effect on January 1, 2026. Staff will continue to monitor for any future updates to the UST regulations.

Advance Education and Outreach Initiatives

Multiple staff provided five tours of the Water Quality Laboratory throughout May for Metropolitan employees and directors, member agencies, and external groups. These tours highlight the importance of high-quality water in achieving Metropolitan's overall mission and provide training opportunities to ensure an adequate pool of suitably qualified and experienced staff to continue providing facility tours.

Engage with Member Agencies and Other Stakeholders on Technical Matters

The Operations Groups hosted a two-day field inspection trip for executive management from both Metropolitan and California Department of Water Resources. The field inspection trip included presentations and tours of several key facilities: Michael J. McGuire Water Quality Laboratory, F.E. Weymouth Water Treatment Plant, La Verne Shops, Gene facilities, Whitsett Intake Pumping Plant, and Copper Basin Reservoir. The trip provided DWR leadership with a first-hand look at Metropolitan's water infrastructure and an opportunity to engage in collaborative discussions on water supply, water management, and water quality—further strengthening the partnership between our two agencies.



Department of Water Resources tour at Intake Pumping Plant

Jensen plant staff gave a tour to member agencies Calleguas Municipal Water District and Las Virgenes Municipal Water District. The main purpose of the tour was to demonstrate how the Jensen plant treats water for delivery to the San Fernando Valley, Ventura County, and Central Los Angeles areas. Participants walked through the treatment process and were shown the functionality of critical facilities to the western service area, including the De Soto Control Valve and the Greg Avenue Pump Station—both critical to delivering water to the end of the West Valley No. 1 & 2 pipelines, the primary delivery lines for these agencies. The tour also provided an opportunity to discuss future projects and explore collaborations that benefit both Metropolitan and its member agencies.



Calleguas and Las Virgenes representatives tour the Jensen plant