THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

Board Report

Operations Groups

- **December Operations Groups Monthly Activities Report**

Summary

This monthly report for the Operations Groups provides updates to the General Manager's Business Plan and a summary of activities for November 2025 in the following key areas:

- Enhance Workforce Safety and Security
- Manage Business Operations, Budget, and Staffing
- Ensure Resilient and Reliable Operations
- Advance Pure Water Southern California
- Optimize Water Treatment and Distribution Operations
- Ensure Water Quality and Environmental Compliance
- Optimize Maintenance and Asset Management
- Support Capital Project Development and Implementation
- Enhance Emergency Preparedness and Response
- Ensure Power and Environmental Regulatory Compliance
- Engage in Legislative and Regulatory Processes
- Advance Education and Outreach Initiatives
- Engage with Member Agencies & Other Stakeholders on Technical Matters

Purpose

Informational by the Operations Groups on a summary of key activities and updates for the month of November 2025.

Attachments

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

Date of Report: December 9, 2025

Operations Groups

GM Business Plan Updates

GOAL: Execute CAMP4W Implementation Strategy to Integrate Climate Adaptation District-Wide

OUTCOME: Evaluate projects and programs using the CAMP4W assessment criteria

UPDATE: Operations staff completed the assessment of two CAMP4W projects—Pure Water (45 MGD, 75 MGD, and 150 MGD) and Sites Reservoir—and have begun the Delta Conveyance Project assessment.

OUTCOME: Integrate climate considerations and implement adaptation strategies

UPDATE: Continuing refinement of nitrification control strategies and plan.

GOAL: Complete EIR and Planning, for Board to Consider Pure Water Southern California

OUTCOME: Prepare for possible implementation through contractor outreach and water quality research

UPDATE: Coordinated with Los Angeles County Sanitation Districts to complete installation of snail mitigation equipment at demonstration facility. Staff began a new demonstration testing phase this month for optimized tertiary MBR testing of the advanced water treatment process. Staff also presented a paper on UV/AOP chlorine measurement methods at the American Water Works Association, Water Quality Technology Conference, and participated in two CalVal treatment process utility workshops hosted at Metropolitan's headquarters.

GOAL: Achieve Equitable Supply Reliability for State Water Project Dependent Areas

OUTCOME: Evaluate further potential investments toward addressing State Water Project Dependent Areas

UPDATE: Operations staff continue to analyze future drought sequences and identify potential vulnerabilities to SWP-dependent areas.

GOAL: Provide Organizational Stability and Deliver Operational Excellence

OUTCOME: Maintain excellence in daily operations and reliability

UPDATE: Golden Mussel taskforce continues to assess and design control measures to protect infrastructure and groundwater replenishment deliveries. Staff met with other agencies to discuss feasibility and experiences of various mussel control measures and to develop control plans.

Water continues to be managed according to Water Surplus and Drought Management (WSDM) principles and operational objectives outlined in the Annual Operating Plan, with an emphasis to position SWP supplies to meet future demands in the SWP-dependent areas.

Operations Groups

The Metropolitan Water District of Southern California

Monthly Operations At-A-Glance

November 2025

30-day window: October 18–November 17

Distribution

** denotes change compared to previous 30-Day period*

30-Day Member Agency Deliveries
3,860 AF/Day

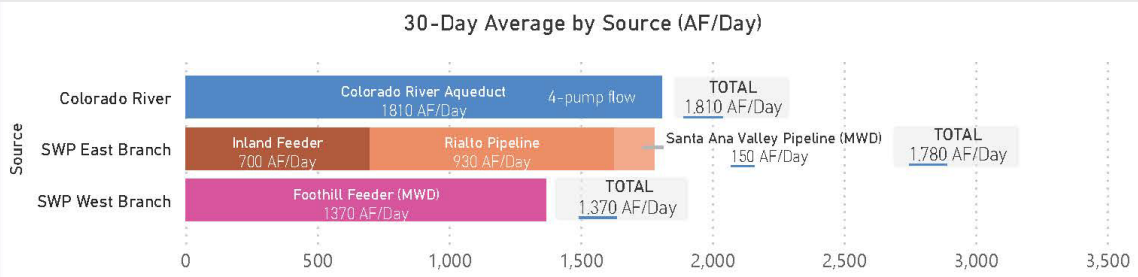
Change in Deliveries*
0 AF/Day

Recorded **October** Deliveries to Member Agencies
Consumptive and Replenishment
124 TAF

Forecast **November** Deliveries to Member Agencies
Consumptive and Replenishment
98 TAF

Recorded **October** Deliveries utilizing water programs
(CYC, RCYC, CUP, CCOP)
0 TAF

Supply



Storage

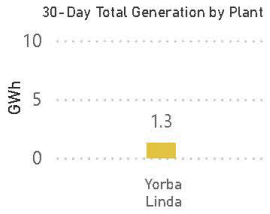
Data as of November 17, 2025

Lake Mathews	Lake Skinner	Diamond Valley Lake
161,900 AF	42,100 AF	764,600 AF
▲ 4,170 AF*	▲ 4,020 AF*	▼ -1,910 AF*
87%	87%	95%

Hydropower

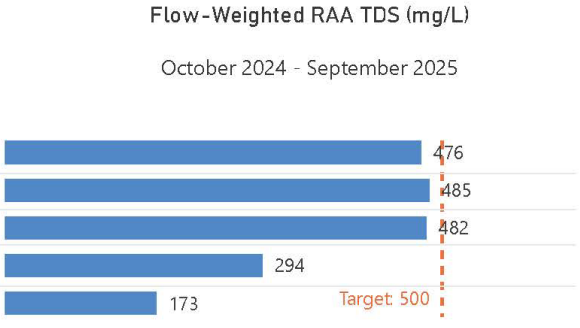
30-Day Total Generation:
1.3 GWh

30-Day Average Power:
1.8 MW



Water Quality

Plant Name	Targeted Blend (% SPW) As of 11/17/2025	Current TDS (mg/L) As of 11/12/2025	TTHMs (µg/L) As of 10/20/2025
Weymouth	75%	280	26.0
Diemer	75%	270	23.0
Skinner	75%	447	17.0
Jensen	100%	272	10.0
Mills	100%	293	18.0



TDS = Total Dissolved Solids **TTHM** = Total Trihalomethanes **RAA** = Running Annual Average

Operations Groups

Operations Groups Business Plan Strategic Priorities & Objectives

Strategic Priority #1: EMPOWER

Enhance Workforce Safety and Security

Desert staff attended an asbestos training class at Iron Mountain. The training provides information on how to identify potential asbestos-containing material and safe work methods when working around asbestos-containing materials.

Staff attending asbestos training at Iron Mountain

To improve facility safety at the Skinner plant, stairs and handrails were upgraded between the lower parking lot and middle parking lot. The stairs were previously made from wood and had deteriorated due to age, which caused a tripping hazard. The new stairs are made of concrete with metal handrails, which are sturdier, safer, and should last for many years.

Newly upgraded stairs at the Skinner plant parking lot

Operations Groups

Strategic Priority #2: SUSTAIN

Manage Business Operations, Budget, and Staffing

The Business Management Team (BMT) is working with Finance to create the FY27 & FY28 biennial budget book in Workiva. The BMT is also working with Section Managers and External Affairs to develop updated "quick fact sheets" for Operations Groups facility sites to be used as an informational reference document for new hires. Metropolitan's new General Manager Designate is the first to receive these documents during his facility visits. These quick fact sheets include information such as facility history, capital improvement projects, maps, staffing information, and interesting facts and features of each facility.

Two-page quick fact sheet for the Jensen plant

Operations Groups

Strategic Priority #3: ADAPT

Ensure Resilient and Reliable Operations

Metropolitan member agency water deliveries are projected to be 98,000 acre-feet (AF) for November with an average of 3,270 AF per day, which is about 570 AF per day lower than in October. Treated water deliveries were 16,700 AF lower than in October for a total of 46,100 AF, or 47 percent of total deliveries for the month. The Colorado River Aqueduct (CRA) projected diversions are 54,800 AF in November. State Water Project (SWP) imports averaged 3,160 AF per day, totaling about 94,900 AF for the month. The target SWP blend is currently 75% at the Weymouth, Diemer, and Skinner plants.

Metropolitan has sufficient SWP and Colorado River supplies, combined with ample storage reserves to meet demands in 2025. Water continues to be managed according to Water Surplus and Drought Management (WSDM) principles and operational objectives with an emphasis on positioning SWP supplies to meet future demands in the SWP dependent area. The SWP Allocation is 50% for the calendar year, and Metropolitan is operating to manage its surplus supplies. Cyclic program deliveries were paused in late September due to increased detections of the invasive golden mussel. In response, CRA pumping has been reduced and SWP blends at the treatment plants are scheduled to increase for the remainder of the year.

Advance Pure Water Southern California

During November, staff worked with the Los Angeles County Sanitation Districts (LACSD) to complete the installation of snail mitigation equipment. Each piece of the equipment will be commissioned and optimized through November and December to support the transition to the next phase of testing. This next phase tests an optimized membrane bioreactor (MBR) of the advanced water treatment process. Activities completed so far include commissioning the ultrafine screen and transitioning the plant feed influent to chlorinated secondary effluent. Staff provided support to LACSD during their air emission tests.

Staff working with vendor and LACSD research partner to install snail mitigation equipment at the demonstration facility

Operations Groups

Additionally, staff participated in the CalVal Membrane Filtration and Reverse Osmosis Utility Workshops hosted at Metropolitan's headquarters on November 19 and 20. CalVal is a collaborative effort to develop guidance for practical implementation of potable reuse projects in California.

Attendees at CalVal reuse guidance workshop hosted at Metropolitan's headquarters

Strategic Priority #4: PROTECT

Optimize Water Treatment & Distribution Operations

The SWP target blend entering the Weymouth and Diemer plants decreased from 100 percent to 75 percent after completion of the Lake Mathews outage and remained at 75 percent in November 2025. The SWP target blend entering Lake Skinner increased to 75 percent and remained at that target in November 2025.

Flow-weighted running annual averages for total dissolved solids from October 2024 through September 2025 for Metropolitan's treatment plants capable of receiving a blend of supplies from the SWP and the CRA were 548 mg/L, 531 mg/L, and 542 mg/L for the Weymouth, Diemer, and Skinner plants, respectively.

Operations Groups

Staff at the Skinner plant are replacing the primary electrical components of the ozone system that are used to convert electrical energy for ozone generation. These critical components, called Insulated Gate Bipolar Transistors or IGBTs, have been in service for over 15 years and are at the end of their useful life.

Skinner staff staging ozone generator components for replacement

Operations Groups

Ensure Water Quality and Environmental Compliance

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

A quarterly meeting with the State's Division of Drinking Water on November 25 covered regulatory, engineering, and water system updates, treatment plant pH adjustments, and tracer testing at the Diemer plant.

Liquid oxygen (LOX) is stored in pressurized tanks and used to generate ozone for disinfection. At the Jensen plant, the LOX tanks have been in service for over 20 years and have begun to show signs of deterioration and corrosion. To address this, staff coordinated with a contractor to clean and recoat all three tanks. Also, new signage was installed to complete the refurbishment and ensure safe operation.

LOX tanks at the Jensen plant before (left) and after (right) refurbishment

Operations Groups

Optimize Maintenance and Asset Management

Staff continued its corrosion resistance program, recently completing work on the Culver City Feeder at Service Connection WB-26. The piping and equipment were sandblasted and then treated with multiple layers of epoxy coating were applied to extend their service life.

Staff applying epoxy coating to a plug valve

Staff installed a riprap grade control wall on the West Valley Feeder No. 2 in the City of Chatsworth. During last year's storms, it was noted that the concrete encasement for the feeder was exposed where the pipeline crosses Aliso Creek in the Aliso Debris Basin, owned by the Los Angeles County Flood Control District. Due to its unique location, close coordination was required between Operations, Engineering, Environmental, and Los Angeles County staff.

Exposed West Valley Feeder No. 2 (left) and staff installing riprap grade control (right)

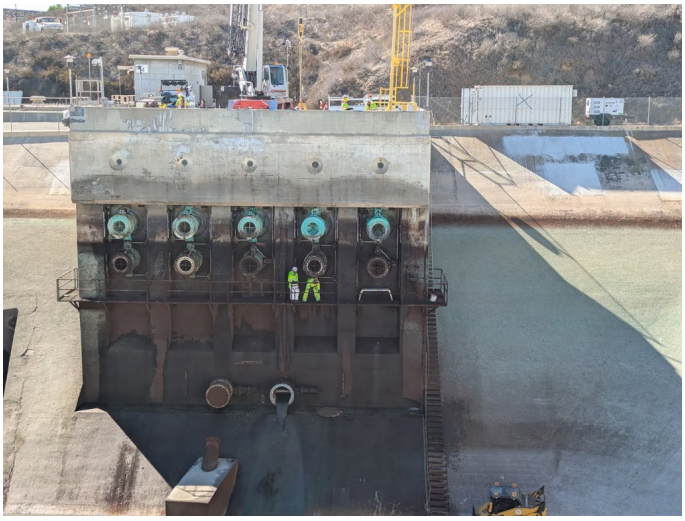
Operations Groups

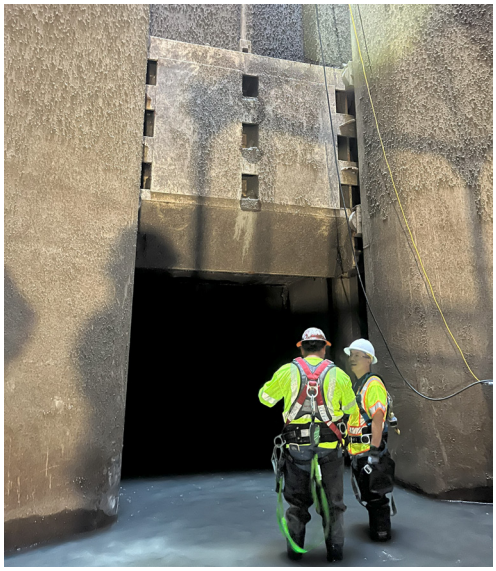
Severe corrosion was recently identified at the central column structures of sludge thickeners S1 and N1 at the Diemer plant. In response, staff inspected the sludge thickeners and recommended that they be taken out of service. Following this assessment, staff coordinated an inspection and scheduled interim repair work to reinforce the structural supports. These measures will remain in place until a full rehabilitation can be completed.

Staff inspecting the sludge thickeners at the Diemer plant

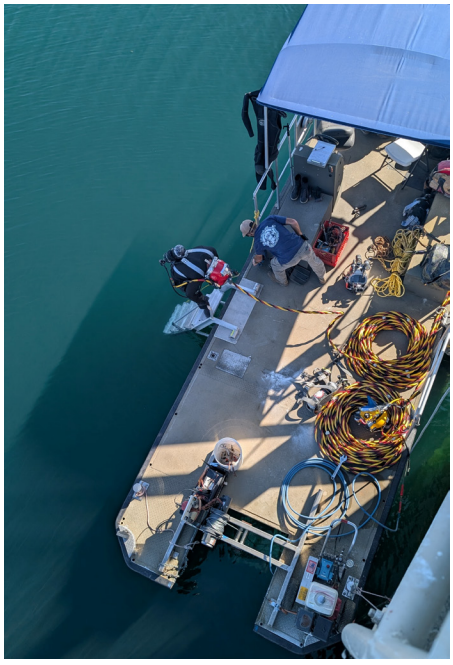
Operations Groups

Staff completed inspection, cleaning, and repairs at numerous locations around the Lake Mathews facility during the recent shutdown.





Staff working at the forebay (left) and inspecting the large 10-foot wide isolation gate at the junction shaft at Lake Mathews (right)



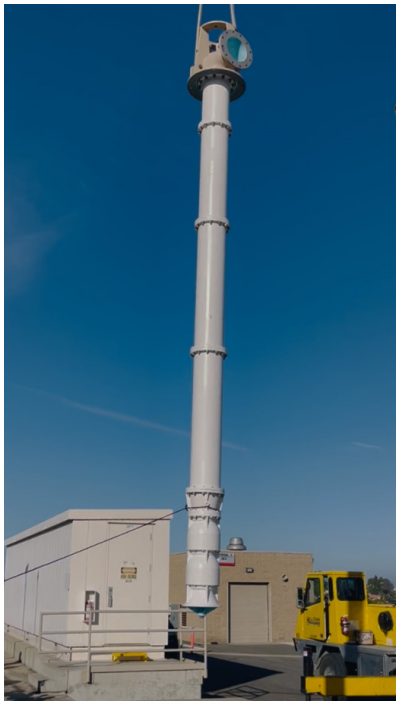
Divers setting up for work on Outlet Tower #2 during the Lake Mathews shutdown (left) and entering the water to replace a valve actuator (right)

Operations Groups

Main entrance to the shaft and tunnel system at Lake Mathews being lowered down 160 feet by crane

Operations Groups

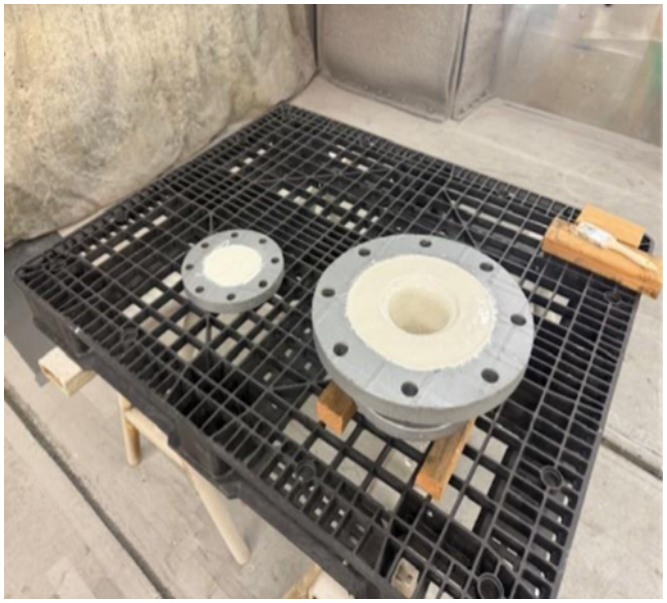
Staff rebuilt and installed one of four surface wash pumps at the Mills plant. These pumps are critical to the filter backwash process and essential for maintaining filter performance. The pump had been in service for 18 years and predictive maintenance data indicated signs of excessive wear. Staff scheduled an outage to remove and refurbish the pump and motor.



Staff installing a rebuilt surface wash pump at Mills plant

Operations Groups

Weymouth plant staff made repairs to the industrial water system. A corroded pipe that had been previously patched was replaced. While the pipe was isolated, staff installed a valve making it easier for isolation in the future. A reducing flange was fabricated and coated by staff. To accommodate the valve installation, a new PVC piping assembly was installed to ensure a reliable supply of industrial water.



Corroded and patched piping (left) and newly fabricated and coated reducing flange (right) for the Weymouth industrial water system

Newly installed reducing flange, valve, and PVC piping

Operations Groups

Desert staff continue to fabricate and install new cooling water lines for the CRA pumps. Staff is in the process of fabricating a new stainless pipe manifold for Hinds pump plant Unit 5.

Staff fabricating stainless pipe for Hinds pump plant Unit 5 cooling water system

Staff collaborated to perform an urgent plumbing repair at Iron Mountain pump plant. They observed a portion of asphalt settling and identified an underground cooling water pipe leak as the cause. The area was excavated, and a repair band was installed to mitigate the leak.

Staff repairing a cooling water pipeline leak at Iron Mountain pump plant

Operations Groups

Staff at Intake pump plant are performing annual electrical preventative maintenance on Unit 9. Staff rack out and isolate the 6.9kV circuit breaker to perform preventative maintenance. The maintenance includes electrical testing, cleaning, and lubrication of mechanical linkages and components.

Staff prepares a 6.9kV circuit breaker for maintenance at Intake pump plant

Desert staff continue patrol road maintenance on the 230kV transmission system. Normal wear and tear in addition to recent monsoon storms led to the patrol roads becoming difficult to navigate. Well maintained patrol roads allow staff to quickly respond to remote areas for maintenance or emergency repair.

Staff on 230kV transmission line patrol road maintenance

Operations Groups

Staff continues with rebuilding Eagle Mountain pump plant Unit 9 pump. In addition to new bearings, wear sleeves, oil tub and instruments, the pump housing and associated components have been blasted and coated.

Eagle Mountain pump plant Unit 9 rehabilitation

Support Capital Project Development and Implementation

Desert staff hosted this year's Board of Directors Engineering, Operations and Technology (EOT) Committee site visit. Staff provided updates on several capital projects, including a first-hand look at the equipment and facilities that will benefit from these improvements. They also explained the operation of the CRA, its pumping plants, and the many components that ensure reliable water deliveries to Southern California.

EOT Committee site visit at Eagle Mountain pump plant

Operations Groups

Multiple meetings and project team site visits were conducted during November to address the requirements for security, information technology, fireproofing, waste management, and other ancillary utilities for the ongoing final design of the Water Quality Laboratory seismic retrofit and building upgrade project.

Enhance Emergency Preparedness and Response

Diemer plant staff, in collaboration with the Orange County Fire Authority, recently carried out a series of operational tests on the new Heli-Hydrant. The testing involved multiple helicopter passes, during which the “hydrant - tank” was filled with water and firefighting helicopters were able to draw water into their onboard tanks. The Heli-Hydrant will provide fire protection to the community surrounding the Diemer plant.

Orange County Fire Authority testing the new Heli-Hydrant at the Diemer plant

Operations Groups

Weymouth plant staff carried out essential maintenance and testing of the Emergency Power System (EPS) for the Weymouth and La Verne facilities. This process involved coordination with multiple teams and required the facility to be powered by two, large portable generators during these critical maintenance and testing activities. The maintenance and testing were completed successfully, and the facility was restored to normal utility power, while ensuring that no essential treatment processes were disrupted.

Staff making transformer connections (left) and generators and transformer being staged for service (right) for testing of an Emergency Power System at Weymouth plant

Operations Groups

Ensure Power and Environmental Regulatory Compliance

The fall operating period has been relatively mild across the California Independent System Operator (CAISO) and Western Electricity Coordinating Council (WECC) operational footprints. Energy markets in November 2025 have seen adequate natural gas supplies and moderate energy prices. Capacity prices for Resource Adequacy requirements have bottomed out and are seeing a slight upward trend for 2026.

The CRA averaged about four pumps in November 2025. The CRA energy cost forecast for fiscal year 2025/26 is $83.8 million and current forecasts are tracking significantly lower at $57.0 million, due to lower overall pumping activity, lower forward cost curves, and active management of Hoover scheduling to optimize for market conditions.

Staff worked with Metropolitan's energy scheduling coordinator ACES to issue a Request for Offers (RFO) for surplus Import Allocation Rights (IARs) at the Mead hub. From time to time, Metropolitan has an opportunity to sell IARs, or excess transmission capacity on the CRA system, without impacting operations. Offers were received and a transaction was approved to sell surplus IARs for January 2026. The total value of all IAR transactions for 2026 is just under $1 million.

Staff continued work on Metropolitan's first ever affected system cluster study for generation developers seeking to connect to transmission systems adjacent to the Colorado River Aqueduct transmission system (CRATS). This study includes several active generation projects connecting to the Southern California Edison (SCE) and Western Area Power Administration (WAPA) systems that could impact Metropolitan's 230 kV CRATS. Staff presented an innovative preliminary interim mitigation, or "bridge", agreement to the EOT Committee and Board to support a portion of the Easley solar and battery storage project. The agreement will enable developers to secure funding and reach commercial operation while permanent mitigations are developed, and will limit energy output in coordination with the California ISO until system upgrades are complete.

Power scheduling staff are closely monitoring the U.S. Bureau of Reclamation (USBR) 24-month forecast for Hoover generation following the announcement in January 2025 that Hoover generation will be significantly curtailed if Lake Mead drops below 1,035 feet. In general, the monthly updates to the forecast indicate that conditions continue to deteriorate. Staff are evaluating potential cost impacts and mitigation strategies.

Operations Groups

Strategic Priority #5: PARTNER

Engage in Legislative and Regulatory Processes

On October 29, 2025, the State Water Resources Control Board's Division of Drinking Water (DDW) adopted new and revised notification and response levels (NLs and RLs) for four per- and polyfluoroalkyl substances (PFAS)—PFOA, PFOS, PFHxS, and PFHxA. The notification levels for PFOA and PFOS were lowered to 4.0 parts per trillion (ppt), while the response level for PFHxS was reduced from 20 ppt to 10 ppt. Notification and response levels for PFHxA were established for the first time at 1,000 ppt and 10,000 ppt, respectively. These levels were developed in coordination with the Office of Environmental Health Hazard Assessment (OEHHA), which has finalized Public Health Goals (PHGs) for PFOA and PFOS and is currently developing PHGs for PFHxS and PFNA. These notification and response levels are non-regulatory, health-based benchmarks intended to guide public water systems in managing PFAS detections while formal maximum contaminant level (MCL) development is under consideration. Staff will continue to monitor DDW implementation, reporting requirements, and OEHHA's ongoing PHG development.

Advance Education and Outreach Initiatives

Staff provided tours of the Michael J. McGuire Water Quality Laboratory for the Urban Water Institute on November 4 and staff from the City of La Verne on November 12. Staff also attended the American Water Works Association Water Quality Technology Conference (November 10-12) and presented technical papers on measuring chlorine for UV/AOP in potable reuse applications, golden mussels in the State Water Project, and indicator microbes for potable reuse process controls.

On November 20, staff participated in the University of La Verne STEM Career Fair to highlight water industry careers in science and engineering fields.

Operations Groups

Engage with Member Agencies & Other Stakeholders on Technical Matters

On November 5, Water Quality staff coordinated and led the recurring AWWA PFAS Working Group meeting. Presentation and discussion topics included an update on the state's efforts to adopt federal PFAS maximum contaminant levels, the plan to issue monitoring orders to public water systems to support initial monitoring requirements, and a PFAS monitoring study using a non-targeted analysis method.

Staff hosted a tour of the Michael J. McGuire Water Quality Laboratory on November 6 and led technical discussions for the Southern California Municipal Laboratory group. This group connects laboratory professionals from regional water agencies, fostering collaboration to advance water quality science. The regional laboratory partnership strengthens Metropolitan's efforts alongside fellow agencies to exchange knowledge, standardize scientific methods, and coordinate research initiatives. This partnership promotes and enhances the collective ability to address emerging contaminants, meet evolving regulatory standards, and ensure the continued safety and reliability of water supplies across the region.

On November 13, over 80 people attended a Member Agency Water Quality Manager's Meeting that was hosted virtually with 55 external participants representing 17 Member Agencies and the State Water Resources Control Board. Presentation topics included regulatory and legislative updates on PFAS, hexavalent chromium, perchlorate, fluoridation, and manganese, Metropolitan's response to golden mussels, consolidation of statewide NPDES pest control permits, and revisions to Consumer Confidence Reports and the definition of Waters of the United States.

Staff explaining the history and activities of Metropolitan's Water Quality Laboratory to the Southern California Municipal Laboratory group