THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

Board Report

Operations Groups

- **October 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 September 2025 in the following key areas:

- Enhance Workforce Safety and Security
- Manage Business Operations, Budget, and Staffing
- Develop New Solutions to Enhance Operational and Business Processes
- Ensure Resilient and Reliable Operations
- Advance Pure Water Southern California
- Protect Source Waters
- Optimize Water Treatment and Distribution Operations
- Optimize Maintenance and Asset Management
- Support Capital Project Development and Implementation
- Ensure Power and Environmental Regulatory Compliance
- Engage in Legislative and Regulatory Processes
- 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 and updates for the month of September 2025.

Attachments

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

Date of Report: October 14, 2025

GM Business Plan Updates

GOAL: Develop a Biennial Budget that Meets Metropolitan's Needs
OUTCOME: Implement risk-informed capital investment planning to ensure reliable critical infrastructure
UPDATE: Staff completed the final report for the Asset Management (AM) Maturity Assessment. Staff kicked off efforts with a consultant to begin benchmarking Metropolitan's AM practices with other utilities and to identify a strategy for incorporating Metropolitan's Climate Adaptation practices into the AM Program.
OUTCOME: Budget for enhanced mission-critical capabilities
UPDATE: Staff are evaluating the risk data collected through the capital investment plan evaluation process.

GOAL: Execute CAMP4W Implementation Strategy to Integrate Climate Adaptation District-Wide
OUTCOME: Assess climate risks and vulnerabilities
UPDATE: No update.
OUTCOME: Set and refine targets and policies
UPDATE: No update.
OUTCOME: Identify climate adaptation strategies
UPDATE: No update.
OUTCOME: Evaluate projects and programs using the CAMP4W assessment criteria
UPDATE: Operations staff continued participating in the assessment of two CAMP4W projects - Pure Water (45 MGD, 75 MDG, and 150 MGD) and Sites Reservoir. On September 4, CAMP4W presented the Initial assessment to Member Agencies Managers.
OUTCOME: Integrate climate considerations and implement adaptation strategies
UPDATE: As a result of the protective measures to guard against nitrification earlier in the summer, nitrite levels throughout the distribution system are low, and the limited flushing operation to maintain water quality ended on September 22. Ongoing lessons learned are being incorporated into a formalized nitrification control 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: Work at the reuse demonstration plant included preventative maintenance and cleaning of membrane bioreactor and reverse osmosis modules, and installation of tie-ins to support upcoming snail mitigation testing.

On September 17, the Independent Science Advisory Panel's final report on the July 2 workshop was distributed to the project team. A formal response to any questions asked by the Panel will be developed in the coming weeks.

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 State Water Project (SWP)-dependent areas.

GOAL: Improve the Workplace and Promote START Values

OUTCOME: Use annual assessments to inform workplace improvement strategies

UPDATE: No Update.

GOAL: Provide Organizational Stability and Deliver Operational Excellence

OUTCOME: Maintain excellence in daily operations and reliability

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

The golden mussel response task force continued to assess strategies and approaches for protecting infrastructure and groundwater replenishment deliveries, conducted site visits to review potential control locations, and drafted control plans.

California Assembly Bill 149, which was initiated by Metropolitan and a coalition of water agencies, was signed into law on September 17. The legislation will protect water agencies that operate under approved mussel control plans from liability resulting from their conveyance of water supplies.

OUTCOME: Support a smooth and efficient transition to the next GM

UPDATE: No Update.

The Metropolitan Water District of Southern California

Monthly Operations At-A-Glance

September 2025

30-day window: August 24–September 23

Distribution

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

30-Day Member Agency Deliveries
4,690 AF/Day

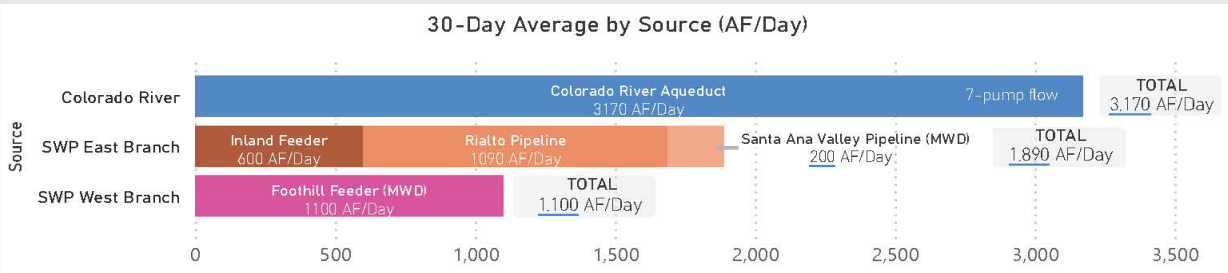
Change in Deliveries*
▲ **250 AF/Day**

Recorded August Deliveries to Member Agencies
Consumptive and Replenishment
123 TAF

Forecast September Deliveries to Member Agencies
Consumptive and Replenishment
121 TAF

Recorded August Deliveries utilizing water programs
(CYC, RCYC, CUP, CCOP)
18 TAF

Supply



Storage

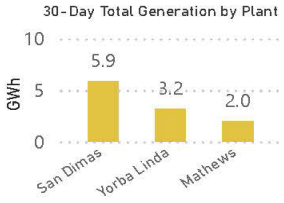
Data as of September 23, 2025

Lake Mathews	Lake Skinner	Diamond Valley Lake
166,300 AF	38,600 AF	771,000 AF
▲ 14,780 AF*	▼ -470 AF*	▼ -940 AF*
83%	89%	95%

Hydropower

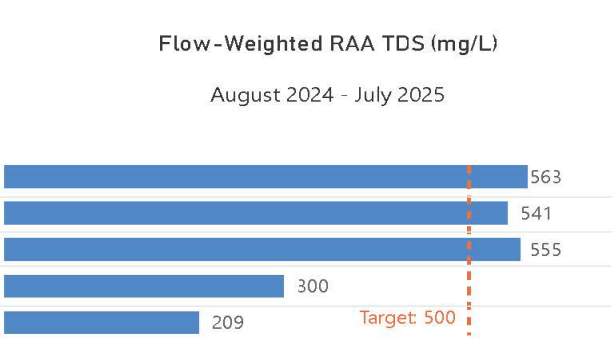
30-Day Total Generation:
11.1 GWh

30-Day Average Power:
15.4 MW



Water Quality

Plant Name	Targeted Blend (% SPW) As of 9/24/2025	Current TDS (mg/L) As of 9/24/2025	TTHMs (µg/L) As of 9/2/2025
Weymouth	40%	455	29.0
Diemer	40%	488	27.0
Skinner	40%	468	18.0
Jensen	100%	286	9.9
Mills	100%	168	16.0



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

Operations Groups Business Plan Strategic Priorities & Objectives

Strategic Priority #1: EMPOWER

Enhance Workforce Safety and Security

Staff from various teams across the Desert took part in a yearly high-voltage switching refresher class. This training is held in the simulator room located at the Gene facility and reinforces System Operating Order Manual information related to switching, valving, clearances, and related safe operational practices.

Staff attending high-voltage switching refresher class at Gene camp

Develop Workforce and Prepare Employees for New Opportunities

Nothing to report.

Promote an Inclusive and Positive Workplace Culture

Nothing to report.

Strategic Priority #2: SUSTAIN

Manage Business Operations, Budget, and Staffing

The Business Management Team (BMT) is currently supporting the Operations Groups in preparing final biennium budget presentations for Executive Management, which include non-fleet operating equipment requests and staffing plans, with preliminary development of FY 2027/28 Biennium Budget Books beginning in Workiva. The Operating Expenditures (Fleet and Non-Fleet) analysis and submission were finalized in close coordination with MWD Groups and Finance. In addition, the new streamlined BVC reporting timeframes, supported by IT, Accounting, and Finance, have been finalized and are anticipated to launch in October. BMT staff are also advancing KPI/dashboard development and implementing a new reporting template to enhance consistency and efficiency. Finally, BMT is collaborating with External Affairs on a recognition initiative honoring Grade 5 treatment and distribution certificate holders as part of Water Professional Appreciation Week in October.

Develop Solutions to Enhance Operational and Business Processes

Staff completed wiring installation for new filter valves in Filter Building #2 at the Weymouth plant. This will provide new wiring for half of the filters at the Weymouth plant. The existing valves had been in service for over 60 years and were replaced as part of the Basins 5-8 and Filter Building #2 Rehabilitation Project. This upgrade will ensure the filter valves are more reliable, resilient, and provide years of service.

Staff working on wiring new valves at the valve control cabinet.

Ensure Accurate Billing and Support Revenue Generation

Nothing to report.

Strategic Priority #3: ADAPT

Ensure Resilient and Reliable Operations

Metropolitan member agency water deliveries were 137,000 acre-feet (AF) for September, with an average of 4,570 AF per day, which was about 70 AF per day higher than in August. Treated water deliveries were 2,900 AF higher than August for a total of 70,800 AF, or 52 percent of total deliveries for the month. The Colorado River Aqueduct (CRA) pumped a total of 95,500 AF in September. SWP imports averaged 2,990 AF per day, totaling about 89,700 AF for the month. The target SWP blend is currently 40% for Diemer, Weymouth, and Skinner plants.

Metropolitan has sufficient SWP, Colorado River supplies, and storage to meet demands in 2025. Water continues to be managed in accordance with WSDM principles and operational objectives, with an emphasis on positioning SWP supplies to meet future demands in the SWP-dependent areas. The SWP Allocation is expected to remain at 50% for the calendar year. 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.

Staff continued work on replacing older copper communication lines throughout the district at remote locations. A Starlink antenna will be installed at the Corona Hydroelectric Plant for higher bandwidths, enhanced security capabilities, and improved reliability. The installation will include routing new conduit, a mast for the antenna, and a dedicated power circuit to power the new equipment.


Threading conduit for installation (left) and conduit placement (right)

Weymouth plant staff were able to diagnose the failure of a flocculator shaft in the reclamation process. The reclamation plant processes water from the settled water in the sedimentation basin and filters backwash water to separate the solids for further dewatering. The shaft's bearings, pillow block, drive chain, and sprockets were damaged due to excessive wear. With the shaft removed, Engineering and the La Verne shops assisted in making repairs. Skilled welders and machinists fabricated a new stainless-steel shift. Once repairs were completed, the shift was reassembled and returned to service.


Damaged equipment, fabricating new stainless-steel stub shafts & replacement of equipment

Advance Pure Water Southern California

As part of routine maintenance, clean-in-place procedures were completed on one of the two membrane bioreactor systems and the reverse osmosis (RO) system at the Napolitano Innovation Center demonstration plant. The demonstration plant was temporarily shut down to enable Los Angeles County Sanitation Districts staff to complete tie-in installations in support of upcoming snail mitigation projects.

Staff coordinating equipment installation at the reuse demonstration facility

Staff presented technical results at the WateReuse California Annual Conference in San Diego from September 21-23, in two presentations titled “Performance Optimization of RO at the Pure Water Southern California Demonstration Facility” and “UV Collimated Beam Testing for UV-AOP Treatment Optimization.”

Staff presenting reuse demonstration testing results at the WateReuse California Annual Conference

Develop New Supplies and Optimize System Flexibility

Nothing to report.

Enhance Sustainability Practices at Facilities and within Operations

Nothing to report.

Strategic Priority #4: PROTECT

Optimize Water Treatment & Distribution Operations

Staff are preparing for the CRA Shutdown and the Hinds Pilot Venting Project by performing flange fit-up and welding at the Lake Mathews Shop. The ten-inch vent piping will limit the turbulence within the Hinds Headgate Structure, while gate throttling will maximize the CRA flow.

Staff welding stainless-steel piping

Staff recently installed a 16-inch hydraulic globe valve refurbished by the Manufacturing Services Unit at Rio Hondo Pressure Control Structure. This structure is a major regulating facility on the Middle Feeder South in the southwestern portion of Metropolitan's service area. The installation of this valve allows for better control in an area where flow varies frequently.

Skinner plant staff have been repairing and/or replacing failed flow meters at several locations. The meters are used to measure the water flow in Metropolitan's system, calculate chemical feed rates, and serve as revenue billing meters. Staff can troubleshoot the failed components and configure specific parameters within the flow meters to ensure accurate measurements are restored.

Staff configuring flowmeter parameters after repair

Ensure Water Quality and Environmental Compliance

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

Following an extensive third-party audit of laboratory procedures and practices, the Water Quality Laboratory received its renewed accreditation certificate from the State Water Resources Control Board's Environmental Laboratory Accreditation Program on September 11. This accreditation must be renewed every two years and is required to allow Metropolitan to test drinking water samples and report the results of regulatory compliance monitoring to regulatory authorities.

Optimize Maintenance and Asset Management

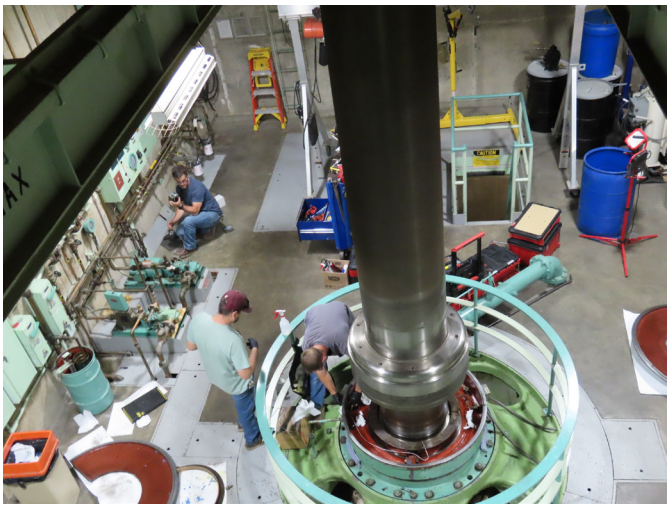
Staff repaved areas of the Gene Facility. The original asphalt had degraded resulting in uneven surface that was becoming a safety concern. The repair ensures the safety of staff walking in the area and provides better stormwater drainage.

Repaving parking areas around the Gene facility

Desert staff continue repairs on Gene Unit 1 Discharge Valve. Staff readies the headcover for the installation of a new bushing. The headcover had been recently recoated; upon replacement of the bushing, it will be ready to install.

Staff locating the discharge valve headcover for bushing installation

Desert staff replaced the pump bearing on Hinds Unit 9. Staff noted bearing temperatures increasing. Further investigation revealed the need for the bearing to be replaced. Staff removed the existing bearing; the new bearing is currently being machined and is expected to be completed within a month.



Hinds Unit 9 pump bearing replacement

Desert staff calibrate the main motor unit protection relays. This calibration is completed on a two-year cycle at all Desert pump plants. Calibrating the relays is essential maintenance, as these electromechanical relays are used to detect abnormal electrical conditions and automatically interrupt power to prevent damage to the motor and associated equipment. These relays are a critical component for ensuring the longevity of the pump motors, reducing downtime, and improving safety.

Staff calibrating relays at the Gene pumping plant

Desert staff are performing civil site work to expand the buildable area for the upcoming switch rack rehabilitation project at Iron Mountain. Project scope required an increase in the area, which will create more room behind the future building to facilitate access for operations and maintenance. The hillside is mostly rock, requiring hammering and clearing.

Staff excavating at Iron Mountain for the switch rack project expansion

Desert staff are blasting and coating the Hinds Unit 9 pump headcover. Consistent operation and moisture can lead to rapid corrosion issues. Staff will complete surface preparation and coating of the headcover in place while machine work is being performed on the new pump bearing.

Coating replacement containment structure on Hinds Unit 9

Staff began routine grading of the Orange County Patrol Roads. Routine maintenance provides operations staff with ready access to field sites. The routine maintenance typically includes patrol road grading, erosion repair, vegetation removal, and corrective maintenance of stormwater drainage.

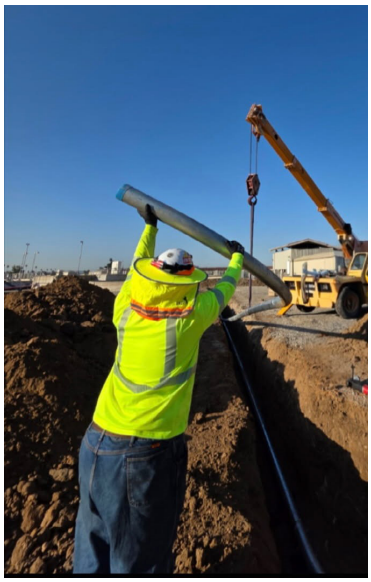
Staff performing routine patrol road maintenance in Orange County

Support Capital Project Development and Implementation

Diemer plant staff partnered with the SCADA Team to replace all Human Machine Interface (HMI) screens within the Ozone Facility. The HIMs allow for local control, communication, and status of the Power Supply Units, which provide data that allows staff to ensure proper operations. The new screens increase communications and improve system reliability.

Staff is wiring a new HMI screen for a power supply unit.

Weymouth plant staff collaborated with the Construction Services Unit to install two four-inch conduit pathways to support the installation of new fiber optic cable. This fiber optic cable will facilitate the final commissioning of the new Battery Energy Storage System and enable it to become fully operational. The BESS units are designed to store a portion of the excess energy generated by the plant's two solar fields during daylight hours and discharge this stored energy during peak demand, helping the Weymouth plant maximize its use of clean, renewable solar power.



Staff installing conduit with crane support (left) and completed installation (right)

North Battery Energy Storage System

Enhance Emergency Preparedness and Response

Nothing to report.

Ensure Power and Environmental Regulatory Compliance

The mid-summer operating period to date has been relatively mild across the California Independent System Operator (CAISO) and Western Electricity Coordinating Council operational footprints. Energy markets in September have seen adequate natural gas supplies and moderate energy prices.

The CRA averaged slightly less than seven pumps in September. The CRA energy cost forecast for fiscal year 2025/26 is $83.8 million, and current forecasts are tracking significantly lower at $61.3 million, due to lower forward cost curves and active management of Hoover scheduling to optimize for market conditions.

Staff continued work on the Metropolitan's first-ever affected system cluster study for generation developers wishing to connect to transmission systems adjacent to the Colorado River Aqueduct transmission system (CRATS). This study encompasses eleven generation projects connecting to the Southern California Edison and Western Area Power Administration systems, which impact Metropolitan's 230 kV transmission system. Preliminary results were released on April 17, 2025, and a stakeholder meeting was held on April 30, 2025, to review the results and field questions from the eight generation developers that are participating in the study. Staff are concurrently working on developing preliminary interim mitigation agreements, or "bridge agreements", to allow generation developers to secure funding by demonstrating a provisional agreement with Metropolitan to allow them to reach commercial operation while permanent mitigations are in development. This would also include an agreement with CAISO to temporarily limit the amount of energy generated by these projects until permanent system upgrades are in place. Staff has received a request for early accommodation from three-generation developers and will update the Board in October at the Engineering, Operations, and Technology (EOT) Committee meeting.

In 2024, Metropolitan received our first-ever formal request to interconnect independent generation directly to the CRATS from AES, a major generation and transmission developer, and proceeded with execution of an interconnection study agreement and study deposit in accordance with Metropolitan's interconnect study process. In early August, AES requested a suspension of the interconnection study process due to evolving energy markets and regulatory developments and requested a refund of the unused portion of the study deposit.

Staff is assisting SRI in evaluating an offer to participate in AES's Twin Palms solar generation and Bulk Energy Storage (BES) project. This project is proposed to be built on land leased to AES from Metropolitan in the Palo Verde area by the Colorado River. The terms of the lease agreement included a Right of First Refusal for Metropolitan. The offer was received from AES on September 5, 2025, and Metropolitan has 45 days from the receipt of the offer from AES to respond. Staff is evaluating the value of the offer against market forecasts and Metropolitan's forecast energy needs.

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 USBR will severely curtail Hoover generation for Lake Mead elevations below 1,035 feet. Generally, the monthly updates to the 24-month forecast done by USBR show that the situation is continuing to deteriorate. Staff are evaluating potential cost impacts and mitigation strategies for presentation at the EOT Committee meeting as early as November 2025.

Strategic Priority #5: PARTNER

Engage in Legislative and Regulatory Processes

California Assembly Bill 149, which was initiated by Metropolitan and a coalition of water agencies and provides urgently needed protections against the spread of invasive golden mussels, was signed into law by Governor Gavin Newsom on September 17. Key provisions of the bill include expanding existing quagga and zebra mussel laws to include all invasive mussel species, increasing the invasive mussel prevention fee on vessel registrations, and requiring water management agencies to develop and update prevention and control plans to address all known invasive mussel species in their waters by December 31, 2026. The expanded legislation will protect water agencies that operate under approved mussel control plans from liability resulting from their conveyance of water supplies.

On May 14, the U.S. Environmental Protection Agency (EPA) announced plans to rescind maximum contaminant levels (MCLs) for PFNA, PFHxS, and GenX, as well as the Hazard Index for mixtures with PFBS, while retaining MCLs for PFOA and PFOS at 4 ppt. EPA also intends to extend the compliance date for PFOA and PFOS to 2031, with a final rule expected in spring 2026. These actions respond to petitions filed in 2024, and on August 7, a federal appellate court directed parties to file motions by September 10. The rule became effective June 25, 2024, with monitoring for PFOA and PFOS beginning in 2027 and compliance required in 2029. On September 11, the EPA filed a motion to vacate four PFAS standards, conceding procedural flaws; the American Water Works Association and Association of Metropolitan Water Agencies support the correction, while the Natural Resources Defense Council opposes. Metropolitan has supported regulating PFOA and PFOS but cautioned against premature regulation of other PFAS. Staff will continue to monitor developments.

On February 16, 2023, the Division of Drinking Water (DDW) proposed lowering the manganese Notification Level (NL) and Response Level (RL) to 20 parts per billion (ppb) and 200 ppb, well below the current NL of 500 ppb and RL of 5,000 ppb, identifying this as a 2025 priority. While not finalized, DDW has published notice of an informational item for the October 7, 2025, State Water Resources Control Board (SWRCB) meeting proposing revised levels of 0.05 mg/L (50 ppb) and 0.20 mg/L (200 ppb). The changes align with bottled water standards enforced by the California Department of Public Health – Food and Drug Branch, strengthening public notice requirements tied to the existing secondary maximum contaminant level of 50 ppb. Adoption would increase reporting and may require operational changes. Staff will monitor and provide updates following the October meeting.

On September 15, staff submitted comments on the California Air Resources Board's (CARB) proposed amendments to the Advanced Clean Fleets Regulation, raising key issues including expanding the definition of Traditional Utility-Specialized Vehicles (TUSVs) to cover Class 2b vehicles, adjusting mileage thresholds for TUSVs to gain early exemption access, and modifying the Mutual Aid exemption to permit more than 25% internal combustion engine trucks for emergency response. Staff also recommended removing "tractors" from the list of trucks excluded from the Mutual Aid exemption when available as near-zero-emission vehicle options and expressed concerns about pre-approved TUSV lists and the need for working groups to evaluate zero-emission vehicle performance for at least 12 months before approving them as one-to-one replacements. CARB is scheduled to adopt amendments on September 25, 2025, with additional 15-day comment language to follow. Staff will continue to monitor.

On September 3, the SWRCB adopted amendments to the Underground Storage Tank (UST) Regulations (California Code of Regulations, Title 23, Division 3, Chapter 16). Metropolitan currently operates 39 double-walled USTs that comply with these regulations. The amendments, effective January 2026, remove outdated provisions for single-walled tanks, phase out ineffective monitoring and spill-prevention equipment, clarify the enforcement role of Certified Unified Program Agencies, and update regulatory language. Staff will continue to monitor for additional updates.

Advance Education and Outreach Initiatives

Tours of the Water Quality Laboratory were provided for a delegation from Daegu Metropolitan Waterworks in Korea on September 15, and for the Los Angeles County Economic Development Corp on September 18.

Staff describe microbiological monitoring during a tour of the Water Quality Laboratory for the Los Angeles County Economic Development Corp

Engage with Member Agencies & Other Stakeholders on Technical Matters

On September 25, staff provided an update on golden mussels in the SWP to the Southern California Water Users Association.