



THE METROPOLITAN WATER DISTRICT  
OF SOUTHERN CALIFORNIA

# Board Report

## Engineering Services Group

### • **Engineering Services Group Monthly Activities Report – June 2026**

This monthly report provides highlights and a summary of Engineering Services Group activities for June 2026 in the following key areas:

- Colorado River Aqueduct Program
- Dams & Reservoirs Program
- Distribution System Program
- Additional Facilities and Systems Program
- Prestressed Concrete Cylinder Pipe Program
- Water Treatment Plants Program
- Pure Water Southern California
- Drought Mitigation – State Water Project Dependent Areas

### **Purpose**

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Informational

### **Attachments**

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**Detailed Report – Engineering Services Group’s Monthly Activities for June 2026**

# Engineering Services' Monthly Activities for June 2026

## Highlights

In the month of June, Engineering Services completed the following major actions in support of the General Manager's business plan for Fiscal Year 2025/2026:

### Goal: Complete Follow Through on Business Model Refinement Recommendations

#### Outcome: Initiate an Integrated Strategy for Infrastructure Reliability (ISIR)

- ISIR Workshop #5 was held on June 12 to update member agencies on the development of equitable supply reliability projects, demonstrate the effectiveness of the projects through scenario runs and reliability analysis, report the progress of two system-wide studies, and preview the coming board information item on the development of the Strategic Infrastructure Resilience Plan.
- Staff reported at ISIR Workshop #5 that five member agencies have been interviewed to facilitate the process of identifying potential improvements to system flexibility.

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

#### Outcome: Identify climate adaptation strategies

- Staff presented the latest status of the drought mitigation projects at the ISIR Workshop #5. A scenario run and a reliability analysis were also provided to demonstrate that balancing available supplies with system capacity would yield the most effective investments. The results will inform the upcoming CAMP4W evaluation.
- At ISIR Workshop #5, staff identified the sites that will continue to be evaluated in the next phase of the surface reservoir study. The list includes both conventional canyon sites and quarry sites. The information will facilitate the CAMP4W evaluation of a reservoir south of the Delta.
- Staff presented the preferred alignments for a raw-water pipeline to enhance regional conveyance and an updated cost estimate at ISIR Workshop #5 to receive feedback from member agencies. The information will be submitted for an upcoming CAMP4W evaluation.

In support of the General Manager's Business Plan goal of providing organizational stability and delivering operational excellence, Engineering Services manages and executes projects within the

adopted CIP to maintain infrastructure resilience, ensure regulatory compliance, enhance sustainability, and provide flexibility in system operations to address uncertain water supply conditions. In addition, Engineering Services provides technical services to enhance reliable system operation and real property planning, valuation, acquisition, and disposition services to protect Metropolitan's assets. Engineering Services empowers our staff and partners with our business partners and the communities we serve to accomplish Metropolitan's mission.

Recent key activities on CIP programs and other key engineering functions are described below.



## Protect public health, the regional economy, and Metropolitan's assets

### Colorado River Aqueduct (CRA) Program

The CRA program includes CIP projects to replace or refurbish facilities and components of the CRA system to convey water from the Colorado River to Southern California reliably.

- **CRA Storage Buildings** — This project furnishes and installs pre-engineered storage buildings at Hinds, Eagle Mountain, and Iron Mountain pumping plants and constructs associated site improvements. The contractor is completing punch-list items at all three pumping plants. Construction is 99 percent complete and is scheduled to be completed by June 2026.
- **CRA Motor Protection Relay Panels Replacement** — This project replaces the existing motor protection relays that protect the main pump motors at the CRA pumping plants. District forces completed construction of the Intake Unit 6 motor protection relay panel in June 2026.
- **CRA Eagle and Hinds Utilities** — This project will replace the existing potable water, non-potable water, and sewer lines at the Eagle Mountain and Hinds pumping plants. The contractor is excavating and installing accessways and sewer lines in the villages, and potable water lines in the vicinity of the pumphouse buildings at both pumping plants. Construction is seven percent complete and is scheduled to be completed by October 2027.
- **Brushless Motor Exciter** — This pilot project will replace the existing main pump motor exciter at the Gene Pumping Plant with a new brushless motor exciter. The installation by Metropolitan forces is complete. The exciter is undergoing testing and commissioning and is scheduled to be completed by July 2026.
- **CRA Pump Plant Sumps Rehabilitation** — This project rehabilitates the sump and circulating water systems at all five CRA pumping plants. The scope of work also includes replacement of structural support systems, piping, valves, motors, and electrical equipment. Final design is complete. A board action to award a construction contract is planned for fall 2026.



**CRA Eagle and Hinds Utilities  
Hinds Crew using a Walk-behind Roller Compactor to Consolidate Material**

## Dams & Reservoirs Program

The Dams & Reservoirs Program includes CIP projects to upgrade or refurbish Metropolitan's dams, reservoirs, and appurtenant facilities to reliably meet water storage needs and regulatory compliance.

- **Garvey Reservoir Rehabilitation** — This project will replace the aging reservoir floating cover and liner; strengthen the structure of the reservoir outlet tower to reduce the risk of damage following a major seismic event; and upgrade the reservoir's rainwater collection, pumping, and subdrain systems. The contractor demolished the existing 51-inch diameter circulating waterline and began deformation monitoring of the Outlet Tower. Construction is 10 percent complete and is scheduled to be completed by September 2028.
- **Lake Skinner Tower Valve Procurement** — This project will procure two valves for the Lake Skinner Outlet Tower, which no longer operate properly. These valves are used if dewatering the reservoir is needed. Fabrication of the replacement valves is 92 percent complete, and they are scheduled for delivery in July 2026. The valves are anticipated to be installed by spring 2027.

- **Lake Mathews Pressure Control Structure (PCS) and Electrical System Upgrades** — This project will replace the aging Lake Mathews discharge facility and electrical system. It includes the construction of a new PCS with a bypass pipeline alongside the existing forebay, a new chlorination facility, and electrical system upgrades to accommodate future power needs. The project utilizes a progressive design-build project delivery method. Negotiations with the selected design-build entity are ongoing. A board action to authorize the Phase 1 agreement is planned for August 2026. The project is anticipated to be complete by 2033.



**Garvey Reservoir Rehabilitation**  
**Completed Demo and Peel Back on Reservoir Floor, Facing North**



**Lake Skinner Tower Valve Procurement**  
**Performance Testing of 42-Inch Butterfly Valves**

## Distribution System Program

The Distribution System Program includes CIP projects to replace, upgrade, or refurbish existing facilities within Metropolitan's distribution system—including PCSs, hydroelectric power plants, and pipelines—to reliably meet water demands.

- **Auld Valley and Red Mountain Control PCS Valve Replacement** — This project will rehabilitate one 42-inch sleeve valve and procure one 42-inch sleeve valve for the Red Mountain PCS. It will also rehabilitate two 42-inch sleeve valves for the Auld Valley PCS. The rehabilitation of one valve at the Auld Valley PCS has already been completed, and the second one is currently being rehabilitated by Metropolitan forces, to be completed in the fall of 2026. Metropolitan is currently reviewing submittals from the vendor, and the engineering team inspected the fabrication of the new 42-inch sleeve valve for Red Mountain, which is planned to be installed in the fall of 2026.
- **Hollywood Tunnel Valve Replacement** — This project will replace two 24-inch sleeve valves operated by electric actuators for pressure control and two 24-inch bonneted knife gate valves for flow isolation at the Hollywood Tunnel North Portal along the Santa Monica Feeder. The Board awarded the valve procurement contract in March 2025. The valves are in fabrication, and delivery is expected in summer 2026. The Board awarded the construction contract in June 2026.
- **Service Connection B-01 Rehabilitation** — This project will replace the venturi flowmeter, one 18-inch-diameter conical plug valve, and one 18-inch-diameter check valve at the B-01 service connection that serves treated water from the Weymouth Water Treatment Plant to the city of Burbank. A board action for the award of a procurement contract for a conical plug valve is scheduled for September 2026. Final design is 30 percent complete and is expected to be complete by June 2027.
- **Skinner Bypass Channel Improvements** — This project will replace three existing cast-iron slide gates at the East Lake Skinner Bypass (ELSB) inlet channel and rehabilitate a portion of the West Lake Skinner Bypass (WLSB) inlet channel. The existing gates at the ELSB are heavily corroded and bind during lifting operations. The existing gates will be replaced with three stainless steel gate assemblies and new actuators. The new gates and actuators have been procured and are being stored onsite at the Skinner Plant. At the WLSB, existing concrete foundations for a screening structure that is no longer in use will be removed, and the channel liner will be rehabilitated. Final design for the contract package is ongoing and is expected to be completed in June 2026.

## Additional Facilities and Systems Program

The Additional Facilities and Systems Program includes CIP projects to refurbish, replace, upgrade, or provide new facilities and systems that support Metropolitan's business and district-wide operations.

- **La Verne Shops Improvements** — This project will improve the La Verne Shops building and install Metropolitan-furnished shop equipment. Construction for the project was completed in May 2026.
- **Colorado River Aqueduct (CRA) Manufactured Homes** — This project will procure and install up to 21 manufactured homes at four CRA pumping plants to support the onboarding of new desert staff: Gene, Iron Mountain, Eagle Mountain and Julian Hinds. A procurement contract for up to 21 manufactured houses will be brought to the Board for consideration/approval in August 2026.

## Prestressed Concrete Cylinder Pipe (PCCP) Program

The PCCP Program includes CIP projects to refurbish or upgrade Metropolitan's PCCP feeders to maintain water deliveries without unplanned shutdowns.

- **Sepulveda Feeder PCCP Rehabilitation Reach 2** — This project installs steel lining along 3.8 miles of PCCP in the cities of Torrance and Los Angeles. The Board awarded a construction contract in January 2026. The contractor has started fabrication of the 81-inch steel liner, acquisition of permits, setting up the construction trailer, and potholing. Construction is five percent complete, and completion is expected by mid-2027.
- **Electromagnetic Inspections** — Regular inspections of the PCCP feeders are a critical step in evaluating the condition of each pipeline and assist staff in prioritizing the relining work on each feeder. This project conducts the fifth cycle of electromagnetic and visual inspections of Metropolitan's approximately 146.4 miles of PCCP pipelines. All planned PCCP electromagnetic inspections for the 2025–2026 shutdown season have been completed. A total of nearly 18 miles of PCCP were inspected this season. In July, the Board will consider an amendment to an existing PCCP inspection agreement so that the fifth cycle of inspections can be completed.

## Water Treatment Plants Program

The Water Treatment Plants Program includes CIP projects to replace or refurbish facilities and components at Metropolitan's five water treatment plants to continue to reliably meet treated-water demands.

- **Weymouth Administration Building Upgrades** — This project upgrades the Weymouth Administration Building to withstand a significant earthquake. The planned upgrades include structural strengthening consistent with current seismic standards for essential facilities, accessibility, and fire/life safety improvements, architectural modifications near the areas of structural upgrades, and improvements associated with the preservation of historic architectural features. The Notice to Proceed was issued, and the pre-construction meeting was held in June 2026.
- **Diemer Chemical Feed Facility Improvements** — This project rehabilitates the Diemer plant's chemical feed facility to maintain operational reliability, meet Metropolitan's current chemical safety standards, and enhance worker safety. The contractor is continuing the form and foundation work in preparation for concrete placement for the multipurpose feed facility. Construction is 25 percent complete and is scheduled to be completed by October 2027.
- **Water Quality Lab Building Upgrades** — This project upgrades the Michael J. McGuire Water Quality Laboratory in La Verne to increase its seismic resiliency and to efficiently address new and evolving water quality issues and regulations. Planned improvements include strengthening the existing structure to meet current seismic criteria for essential facilities; expanding and improving the building's layout; replacing specialized laboratory equipment; and implementing technology upgrades to support current and future water quality regulations. Final design is approximately 25 percent complete and is scheduled to be completed in the spring of 2028.
- **Mills Finished Water Reservoir Rehabilitation** — This project will replace the aging floating covers and liners at the Mills plant's finished water reservoirs; upgrade the rain removal system, piping, and valving to enhance reservoir operational flexibility and mixing improvements; refurbish the reservoir slide gates; and install a new drop gate. Final design is approximately 45 percent complete and is scheduled to be completed in the spring of 2027.

- **Jensen Mechanical Dewatering Facility** —This project will construct a new mechanical dewatering facility at the Jensen Plant, including associated solids conveyance piping, chemical feed, and electrical and control systems, to improve the plant’s residual solids processing and address the plant’s long-term solids handling needs. Final design is approximately 18 percent complete and is scheduled to be completed in the spring of 2027.



## Adapt to changing climate and water resources

### Pure Water Southern California

Pure Water Southern California (Pure Water) is a large regional recycled water program that will provide a new local source of safe and reliable drinking water for Southern California. Pure Water currently focuses on five areas: program management, environmental planning, advanced water purification facility (AWPF) planning, demonstration testing, and preliminary design of initial pipeline reaches. Pure Water will produce up to 150 million gallons per day of purified water from the AWPF in Carson for indirect potable reuse (IPR) and direct potable reuse (DPR) applications.

- **Program Management** — Program management activities include project controls, scheduling, budget development, risk management, coordination with program partners and stakeholders, grants and funding, and preparation of various plans and studies. The Pure Water program management team was engaged in the following activities during this reporting period:
  - Continued coordination and grant reporting efforts with the United States Bureau of Reclamation (USBR) for the \$125,472,855 Large-Scale Water Recycling Program grant and the \$5 million WaterSmart Title XVI Planning Grant. Metropolitan has received a total of approximately \$28.7 million to date. Staff are working with USBR to amend the grant agreement to realign project scope and extend the period of performance.
  - The \$80 million state grant is also used to support the current phase of program work; approximately \$58.5 million is spent as of end of March.
  - Continued to coordinate with the CAMP4W assessments.
- **Environmental Planning** — In February 2026, Metropolitan’s Board certified the program’s final EIR and approved PWSC for CEQA purposes. Staff plan to prepare a NEPA document to address the realigned project scope to be funded by USBR’s Large-Scale Water Recycling Program grant.
- **Advanced Water Purification Facility** — The AWPF will purify treated wastewater from the Los Angeles Sanitation District’s (Sanitation Districts’) A.K. Warren Water Resource Facility using membrane bioreactors (MBR), reverse osmosis, and ultraviolet/advanced oxidation. With its expertise in biological wastewater treatment, the Sanitation Districts will be responsible for implementing the AWPF pretreatment, including the MBR facilities. A final draft of the Conceptual Facilities Report has been prepared. This document records key assumptions of AWPF components and will be used to prepare RFQs for progressive design-build contracts. The RFQ package is planned to be ready this summer.

- **Demonstration Testing** — Staff continued testing the IPR processes and planning for expansion for DPR testing. Market-sounding interviews were conducted with contractors to gauge industry interest in an alternative delivery approach, such as a Construction Manager/General Contractor (CM/GC), to procure and install the DPR testing equipment and construct the necessary facilities. DPR testing equipment will include membrane filtration, reverse osmosis, UV/AOP, ozone with granular and biological activated carbon, a lime stabilization system, and a carbon dioxide system. An advertisement for a CM/GC contract is anticipated this summer. Construction and installation are anticipated to commence in 2028. Information from this DPR testing will allow Metropolitan to assess both treated-water and raw-water augmentation alternatives.
- **Conveyance System** — The PWSC Conveyance Facilities Conceptual Design Report for the entire conveyance system has been completed and is available on Metropolitan's public website: <https://www.mwdh2o.com/building-local-supplies/pure-water-southern-california/technical-resources/>. In addition, preliminary designs of Reaches 1 and 2 through the cities of Carson, Long Beach, and Lakewood are underway. Preparation of bid documents for one or more CM/GC firms for the first two reaches is also underway. Staff would be ready to advertise these packages after the CAMP4W assessments have been completed, and if the Board decides to proceed with the design of the initial stage of PWSC.

In addition, staff recently authored a technical paper and presented at the North American Tunneling Conference in Anaheim on June 17, which was also published in the June issue of the Tunneling and Underground Construction magazine: <https://tucmagazine.org/>.

## Drought Mitigation — State Water Project Dependent Areas

The Drought Mitigation—State Water Project Dependent Areas Program includes CIP projects to replace, refurbish, upgrade, or construct new facilities, which are identified to mitigate the vulnerability experienced by specific member agencies that are affected during shortages of State Water Project supplies.

- **San Bernardino Valley Municipal Water District Pump Stations** — This project will connect Metropolitan's Inland Feeder to San Bernardino Valley Municipal Water District's Foothill Pump Station. The project is one of four Rialto Pipeline service area supply reliability improvement projects. Foothill Pump Station will provide the hydraulic lift needed for direct water delivery from Diamond Valley Lake to the Rialto Pipeline. The project will install supply and discharge bypass pipelines, isolation valves and their vault, and a surge protection system. Design and permitting of the project is 95 percent complete, and board award of a contract is planned for November 2026.
- **Sepulveda Feeder Pump Stations** — This project installs new pump stations at the existing Venice and Sepulveda Canyon pressure control facilities, providing the ability to reverse flow in the Sepulveda Feeder and deliver 30 cubic feet per second from the Central Pool to portions of the western State Water Project exclusive area. This project utilizes the progressive design-build project delivery method. Construction of the Venice Pump Station is approximately 24 percent complete. The contractor has completed excavations for the Venice supply piping and has begun demolition of the large tank at the Sepulveda PCS. Negotiations for the guaranteed maximum price for Sepulveda Canyon Pump Station work are currently ongoing, and a final negotiated value is anticipated by July 2026, with board authorization of Phase 2B planned for August 2026.



**Sepulveda Feeder Pump Stations  
Contractor, J.F. Shea Placing the Suction Pipeline**