



THE METROPOLITAN WATER DISTRICT  
OF SOUTHERN CALIFORNIA

# Board Report

## Engineering Services Group

- **Engineering Services Group Monthly Activities Report for February 2026**

### Summary

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

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

### Purpose

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Informational

### Attachments

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

# Engineering Services' Monthly Activities for February 2026

## Highlights

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

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 Capital Investment Plan (CIP) to maintain infrastructure resiliency, 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 reliably convey water from the Colorado River to Southern California.

- **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. Construction is ongoing at all three pumping plants. The contractor is continuing the painting of doors and frames at all three plants and installing electrical components at Eagle Mountain and Iron Mountain. Construction is 97 percent complete and is scheduled to be complete by April 2026.
- **CRA Main Pump Transformers Procurement** — This project replaces thirty-five 230 kV and 69 kV step-down transformers that are used to operate the main pumps at all five of Metropolitan's Colorado River Aqueduct pumping plants. The Board awarded a procurement contract for 35 transformers. Submittal reviews are currently underway for procurement. Transformer deliveries are scheduled to begin in late 2028 and conclude by 2030. Final design for the transformer installation is 10 percent complete and anticipated to be completed by December 2026.

- **Erosion Control Improvements** — This project will install erosion control features along the CRA conveyance system at 26 conduit locations that are vulnerable to major erosion damage during storm events. The MWD Survey Team is developing updated topographic maps, and the consultant is utilizing this information to update the hydraulic and scour analysis from the preliminary design phase. Final design is 20 percent complete and is scheduled to be complete by September 2027.
- **Main Pump Access Improvements** — This project will construct new platform systems at each pumping plant and implement additional access improvements to enhance the efficiency of maintenance activities on the lower motor guide-bearing assemblies. Preliminary design is 20 percent complete and is scheduled to be complete by June 2026.



**CRA Storage Buildings — Iron Mountain Pump Crew and Maintenance Storage Building  
Dry Film Thickness of Zinc Coating on Doors**

## 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 Board awarded a construction contract in December 2025, and a Notice to Proceed was issued to the contractor in January 2026. The contractor is preparing submittals and resources for mobilization. Construction is planned to be complete by June 2028.
- **Diamond Valley Lake Secondary Inlet Valve Rehabilitation** — This project will rehabilitate the 72-inch-diameter inline sleeve valve and inlet piping and replace the instrumentation at the Diamond Valley Lake (DVL) Reservoir secondary inlet. Metropolitan staff has completed the rehabilitation of

the sleeve valve and has installed the valve and tested its operation. Flow testing of the 96-inch-diameter piping is expected to be complete in late February 2026.

- **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 designed for dewatering the reservoir and are not intended for daily operation. Fabrication of the replacement valves is 90 percent complete and is scheduled for delivery in April 2026.
- **Lake Mathews Pressure Control Structure (PCS) and Electrical System Upgrades** — This project will replace the aging Lake Mathews discharge facility and electrical system. The project includes the construction of a new PCS with a bypass pipeline alongside the existing forebay, a new chlorination facility, and upgrading the electrical system to accommodate future power needs. This project utilizes a progressive design-build project delivery method. A Request for Qualifications (RFQ) for Phase 1 design-build services was released in September 2025. Six statements of qualification were received, and three design builders were selected to proceed to interviews. The interviews are scheduled for February 2026. A board action to authorize the Phase 1 agreement is planned for June 2026. The project is anticipated to be complete by 2032.



**Garvey Reservoir Rehabilitation —  
Met Forces Performing Garvey Alarm Installation on Tower Looking West**

## 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.

- **San Jacinto Diversion Structure Gate Replacement** — This project will replace three cast-iron slide gates at the San Jacinto Diversion Structure with stainless steel slide gates designed for throttling. The three new slide gates were procured under a separate procurement contract and were delivered in June 2025, with the electric actuators delivered in January 2025. The construction contract was awarded in August 2025 and is currently underway, with completion scheduled for February 2026.
- **Covina Pressure Control Structure Valve Procurement** — This project includes removing and replacing six globe valves with actuators on six of the ten Covina PCS lines to improve the reliability of the PCS. Staff has completed the procurement package. The globe valves will be advertised in February 2026, with award of the procurement contract anticipated in May 2026.
- **San Diego Canal Radial Gates** — This project will replace the V-06 and V-08 radial gates along the San Diego Canal. In addition to replacing the gates, the project will also make electrical, security, and controls upgrades to the sites. Final design is complete, and award of a construction contract is planned for June 2026.



**San Jacinto Diversion Structure Gate Replacement —  
Slide Gate Actuators Staged at San Jacinto Diversion Structure**

## 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. The contractor installed the plasma cutter, roof access ladders, air compressor equipment, and a new waterjet system. The contractor installed a refurbished vertical turning lathe; continued installing crane platform access modifications; continued installing roof access handrail and gate at the Fabrication and Coating Shops. Construction is approximately 99 percent complete and is scheduled to be complete by February 2026.



**La Verne Shops Improvements —  
Test Cutting 0.5 Inch Material on the New Hydraulic Shear at the Fabrication Shop**

### [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 through several cities, including Torrance and Los Angeles. The Board awarded the construction contract in January 2026. The project is expected to be complete by mid-2027.

- **Sepulveda Feeder PCCP Rehabilitation Reach 9** — This project will rehabilitate approximately 3.7 miles of 120-inch to 96-inch-diameter PCCP with a combination of solid steel and coiled steel liner systems. Reach 9 is located on Hayvenhurst Avenue from near State Route 118 to just north of the Van Nuys Airport in Los Angeles. Additionally, a new 54-inch sectionalizing valve and valve structure will be installed on the Sepulveda Feeder near the intersection of Hayvenhurst and Chatsworth Street. Final design is 99 percent complete and is scheduled to be complete by April 2026.
- **Electromagnetic Inspection** — 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. Inspection of the West Valley Feeder No.1 was completed in January 2026.

## 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. Final design is complete, and the project was advertised for bids. Award of a construction contract is planned for April 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 Board awarded a construction contract in October 2025. The contractor has completed mobilization. Construction is eight percent complete and is scheduled to be complete in 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 of the existing structure to meet current seismic criteria for essential facilities; building expansion and functional layout improvements; replacement of specialized laboratory equipment; and implementation of technology upgrades to support current and future water quality regulations. Final design is approximately 12 percent complete and is scheduled to be complete in spring 2028.



## 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:
  - In January 2026, Metropolitan’s Board approved guiding principles that would be used to develop term sheets for future agreements.
  - Continued coordination and grant reporting efforts with the United States Bureau of Reclamation for the \$125,472,855 Large-Scale Water Recycling Program grant and the \$5 million WaterSmart grant. Metropolitan has received a total of approximately \$25.5 million to date.
  - The \$80 million state grant is also used to support the current phase of program work; approximately \$46 million is spent as of end of November. Continued to coordinate with the CAMP4W assessments.
  - On December 15, 2025, the Pure Water Southern California Project was certified by Governor Newsom for Judicial Streamlining under the SB 149 Infrastructure Streamlining Program.
- **Environmental Planning** — In February 2026, Metropolitan’s Board certified the program’s final EIR and approved the program from a California Environmental Quality Act standpoint.
- **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 would be used for the upcoming RFQs for the progressive design-build contracts to design and construct the full-scale AWPF.
- **Demonstration Testing** — Continued testing and optimization of the IPR processes is underway. In addition, the planning of pilot-scale and demonstration-scale testing of DPR processes is in

progress. Key testing equipment advertisements are underway, and equipment will be procured in mid-2026 to facilitate the design of the DPR testing facility.

- **Conveyance System** — The conveyance system consists of the backbone pipeline that extends 39 miles from the AWPf, multiple pump stations, repurposing an existing pipeline owned by the San Gabriel Valley Municipal Water District, and constructing a new DPR pipeline to convey water from the backbone eastward for raw water augmentation at Metropolitan's Weymouth plant. The Conceptual Design Report for the entire conveyance system was completed in April 2025 and is publicly available on Metropolitan's website. In addition, preliminary design of the first two pipeline reaches across the cities of Carson, Long Beach and Lakewood is 90 percent complete.

## 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.

- **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 will utilize the progressive design-build project delivery method. Construction of the Venice Pump Station is currently underway, and a groundbreaking ceremony was held in January 2026. A vehicle barrier wall has been installed at the site, and the contractor is currently excavating for the electrical building. Negotiations for GMP2 for the Sepulveda Canyon Pump Station work is anticipated to begin next month.
- **Foothill Pump Station Intertie and 132-inch Butterfly Valve Procurement** — This project will connect Metropolitan's Inland Feeder to San Bernardino Valley Municipal Water District's Foothill Pump Station. The project will install supply and discharge bypass pipelines, isolation valves and their vault, and a surge protection system. The project requires permits from the California Department of Fish and Wildlife and the U.S. Fish and Wildlife Service (USFWS) to address impacts to endangered species found at the project site. The project received a \$5 million USBR grant, and USBR is assisting Metropolitan with permit consultation with USFWS. CA Fish and Wildlife is expected to finalize by the first quarter of 2026. Due to the recent federal shutdown, USFWS is encountering delays in permit processing. It is anticipated USFWS consultation would be completed by mid-2026. Final design is complete, and the construction package is planned to be signed off by early 2026. A separate procurement contract for a 132-inch butterfly valve to be installed at Foothill Pump Station was awarded in March 2024, and the valve is planned to be delivered by late 2026. In February, the San Bernardino Valley Municipal Water District board approved a joint-use agreement for the Foothill Pump Station.



Venice Pump Station Groundbreaking Ceremony  
Directors Sutley, McMillan, Erdman and Lewitt with GM Deshmukh



Sepulveda Feeder Pump Stations —  
Contractor J.F. Shea Performing Compaction Operations in Electrical Building Trench at Venice site



## Sustain Metropolitan's mission with a strengthened business model

### Value Engineering Program

Engineering Services conducts a Value Engineering (VE) program to review capital projects and identify opportunities and alternatives to enhance project performance, optimize funding for CIP projects, and demonstrate responsible use of public funds. The objective of the VE program is to improve the overall value of CIP projects by applying an industry-accepted assessment methodology to examine a project's function, design, equipment, material selections, and contracting approach. This comprehensive assessment is conducted at strategic stages in a project's life cycle.

#### Security Upgrades – Mills & Etiwanda Facilities

Engineering conducted a Constructability Review (CR) workshop for the Security Upgrade Eastern Area 2: Mills & Etiwanda project. This project will upgrade and replace existing security cameras, and related equipment and software serving two Metropolitan facilities: Mills Water Treatment Plant and Etiwanda Pressure Control Structure/Hydroelectric Power Plant. Completion of this work will improve security at these facilities through enhanced video monitoring and improved physical security.

The CR Team included Project Management, Design, Construction Management, Operations, Security and other Metropolitan staff; Metropolitan's design consultant; independent Subject Matter Experts; and a Certified Value Specialist to lead the workshop. The team met virtually in early February. The CR workshop examined project plans and specifications, considered Lessons Learned from prior security upgrade projects, evaluated constructability and biddability issues, and identified construction-related risks and recommended mitigation actions.