



THE METROPOLITAN WATER DISTRICT  
OF SOUTHERN CALIFORNIA

# Board Report

## Engineering Services Group

- **Engineering Services Monthly Activities for July 2024**

### Summary

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This monthly report provides a summary of Engineering Services Group activities for July 2024 in the following key areas:

- Colorado River Aqueduct (CRA) Program
- Dams & Reservoirs Program
- Distribution System Program
- Information Technology and Control Systems 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
- Project Labor Agreement

### Purpose

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Informational

### Attachments

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Attachment 1: Detailed Report - Engineering Services Group's Monthly Activities for July 2024

# Engineering Services

## Key Activities Report for July 2024

Engineering Services manages and executes projects within the 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 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 is composed of CIP projects to replace or refurbish facilities and components of the CRA system to reliably convey water from the Colorado River to Southern California.

- **Domestic Water System Upgrades**—This project upgrades the domestic water treatment systems at all five CRA pumping plants, including replacement of the water treatment units. Fabrication of the temporary treatment skids is complete. The contractor will begin installation of the temporary skids starting with Intake Pumping Plant in August 2024. Construction is 40 percent complete and is anticipated to be completed in 2026.
- **Overhead Cranes Replacement**—This project consists of replacing the overhead bridge cranes and retrofitting the support structures within the pump bays located at all five of Metropolitan's Colorado River Aqueduct pumping plants. Construction is completed and the Notice of Completion was filed in June 2024.
- **Gene Security Upgrades-Pilot**—This project installs security equipment such as cameras, card readers, and door switches at the Gene Pumping Plant. This is a pilot effort to support the larger CRA Security Improvements Project to test the technology that will be used and to assess its effectiveness. Lessons learned from this pilot effort will be applied during the development of the final design of the security technology improvements at the CRA facilities. Construction is 15 percent complete and is scheduled to be completed in September 2024.
- **Black Metal Mountain Electrical Upgrades**—This project scope includes the replacement of the existing single-phase 2.4 kV power line delivering power to the Black Metal Mountain communication

site with a more robust three-phase power line rated for 4.16 kV usage. The project will also enhance the main access road to the communications sites. Preliminary design is complete, and final design will begin in August 2024.

- **Cabazon Radial Gate Improvements**—This project will replace an inline and wasteway radial gate at the facility and will install security, electrical, and safety upgrades. Final design is 80 percent complete and is scheduled to be completed in December 2024.
- **Iron Mountain Switchgear Improvements**—This project replaces the 2.3 kV Station Light and Power switchrack with a 4.16 kV indoor switchgear, a 2.3 kV emergency generator with a 4.16 kV generator, and upgrades the auxiliary distribution system. Preliminary design will be completed in August 2024.



Domestic Water System Upgrades—Ductbank to Domestic Tank at Eagle Mountain

## Dams & Reservoirs Program

The Dams & Reservoirs Program is composed of 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, structurally strengthen the outlet tower, upgrade the on-site water quality laboratory building, rehabilitate the junction structure, and replace the existing standby generator and a portion of the security perimeter fence. The draft Environmental Impact Report (EIR) for this rehabilitation effort was released on June 12, 2024, and was followed by a presentation to the Monterey Park City Council. Final design is approximately 35 percent complete and is scheduled to be completed in April 2025.

## Distribution System Program

The Distribution System Program is composed of CIP projects to replace, upgrade, or refurbish existing facilities within Metropolitan’s distribution system, including pressure control structures, hydroelectric power plants, and pipelines, to reliably meet water demands.

- **Red Mountain and Auld Valley Pressure Control Structures Valves Replacement**—This project will replace one 42-inch sleeve valve at the Red Mountain pressure control structure (PCS) and rehabilitate two 42-inch sleeve valves at the Auld Valley PCS. The valves regulate the flow of water to the San Diego service area. Bids for the replacement of the Red Mountain PCS valve were received in July 2024. A board action to award the contract is scheduled for October 2024 with the installation of the valve scheduled during the shutdown season of 2025–26. The two valves at the Auld Valley PCS are being rehabilitated by Metropolitan forces.
- **Foothill Hydroelectric Plant and Control Building Seismic Upgrade**—This project strengthens the Foothill Hydroelectric Plant and Control Building to withstand a significant earthquake by removing and replacing the roofing system; adding encasements to enlarge and strengthen concrete columns; and reinforcing shallow foundations. The contractor has completed installing the building’s roof and continues drilling of the lower exterior concrete columns. Construction is approximately 65 percent complete and is scheduled to be completed in December 2024.
- **Santa Monica Feeder Cathodic Protection**—This project will install cathodic protection for a steel portion of the Santa Monica Feeder to address corrosion detected during a 2018 inspection of the pipeline. This project will install two 400-foot-deep anode wells along with rectifiers and remote monitoring equipment along the feeder. A construction contract was awarded in June 2024, and the contractor was issued the Notice to Proceed in July 2024.
- **Lake Skinner East Bypass Gate Procurement**—This project will procure and install three new slide gate assemblies with new actuators at the East Lake Skinner Bypass channel, located off the San Diego Canal close to Lake Skinner. The procurement contract was awarded in March 2024, with Notice to Proceed given to the manufacturer in April 2024. Estimated delivery date for the new gates and actuators is May 2025. The gates will be installed under a construction contract, along with improvements made to the West Lake Skinner Bypass and Bypass No. 2. The schedule for the construction work is still to be determined.
- **Lakeview Pipeline Rehabilitation-Final Design**—This project will reline a 3.7-mile-long portion of the Lakeview Pipeline. Final design is approximately 90 percent complete and is planned for completion by September 2024.

- **Lakeview Pipeline Rehabilitation-Procurement**—The project will procure 12,500 feet of steel liner segments, ranging in diameter from 114 inches to 117 inches. The procurement contract was awarded in November 2023, with an estimated delivery date for the steel liner segments set for October 2024. These segments will be stored at the Etiwanda Facility. This initial quantity of Metropolitan-furnished pipe will enable the future contractor to promptly commence field installation while procuring the remaining components for the Lakeview Pipeline Rehabilitation.
- **Lake Mathews Pressure Control Structure 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 and upgrade to the electrical system to accommodate future power needs. This project will use a progressive design-build project delivery method. Staff completed negotiation and will seek authorization of an agreement for owner’s advisor services for the conceptual design phase in August 2024. It is anticipated that an RFQ for Phase 1 will be advertised in April 2025, and selection of a Design Builder in fall 2025. The project is anticipated to be completed by 2031.



Foothill Hydroelectric Plant and Control Building Seismic Upgrade—  
Rebar Placement at Hydroelectric Plant Column



Lakeview Pipeline Relining-Procurement—Plasma Torch Cutting of 117-inch Diameter Pipe

## Information Technology and Control Systems Program

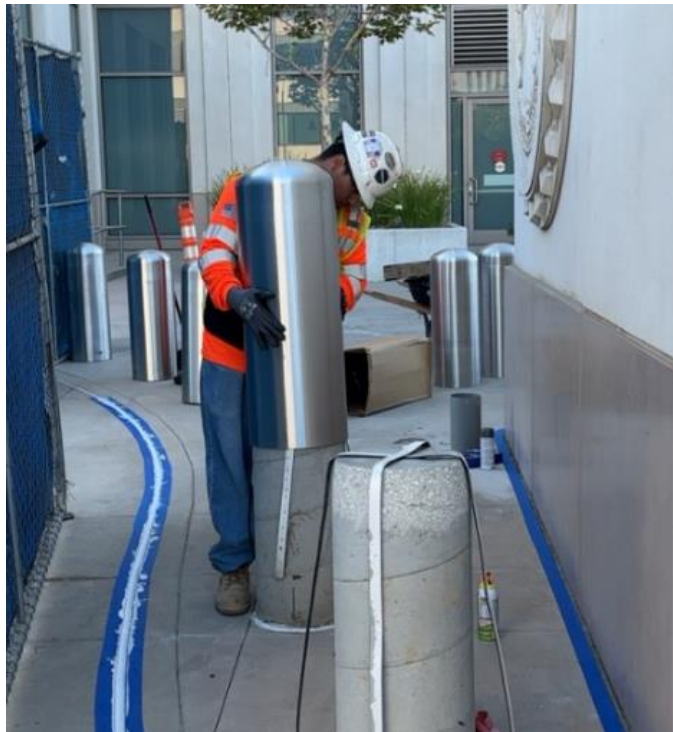
The Information Technology and Control Systems Program is composed of projects to replace, upgrade, or provide new facilities, software applications, or technology that will enhance cyber security, reliability, flexibility, and capability of information, communication, and control systems.

- **SCADA System Upgrades**—This project will upgrade Metropolitan’s entire control system in incremental stages, spanning the Colorado River Aqueduct, the five water treatment plants, and the conveyance and distribution system. The first stage of this project replaces the control system at the Mills plant, starting with a pilot effort on one of the plant’s remote terminal units to demonstrate the proposed technology and the consultant’s approach for the plant and the overall project. Staff continued evaluating the results of the recently installed pilot equipment. The pilot phase is approximately 99 percent complete and is scheduled to be completed in August 2024. The system upgrades at the Mills plant are scheduled to be completed in October 2026.

## Additional Facilities and Systems Program

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

- **Headquarters Physical Security Upgrades**—This project implements comprehensive security upgrades for the Metropolitan Headquarters Building. These upgrades are consistent with federally recommended best practices for government buildings. The work has been prioritized and staged to minimize rework and impacts on day-to-day operations within the building. Stage 1 work is complete and provides enhanced security related to perimeter windows and doors. Stage 2 work is complete and provides security system upgrades inside the building with a focus on the main entry rotunda area, boardroom, executive dining lounge, and security control room. Construction of Stage 3 improvements is underway and will provide security system upgrades around the perimeter of the building. The contractor is completing installation of the ornamental fence around the courtyard and placement of sleeves for the concrete bollards. Construction is 95 percent complete and is scheduled to be completed in September 2024.
- **Headquarters Building Fire Alarm and Smoke Control System Upgrades**—This project upgrades the Metropolitan Headquarters Building fire life safety systems, which includes replacement of the fire detection and alarm system and HVAC system improvements for smoke control. The fire alarm and smoke control systems in the Metropolitan Headquarters Building provide detection, notification, and control of building functions so that occupants and visitors can safely exit in the event of a fire. The contractor continued final testing and sign-off of the fire alarm and smoke control systems by the LAFD and Los Angeles Department of Building and Safety. Construction is complete and is scheduled to be certified by these agencies within the next two months.



Headquarters Physical Security Upgrades—Stainless Steel Cover Installation on Bollard at Building Entrance

## Prestressed Concrete Cylinder Pipe (PCCP) Program

The PCCP Program is composed of CIP projects to refurbish or upgrade Metropolitan’s PCCP feeders to maintain water deliveries without unplanned shutdowns.

- **Lake Mathews Valve Warehouse**—This project constructs an 18,160 square-foot pre-engineered metal building on a reinforced concrete slab at Lake Mathews for valve and equipment storage related to the PCCP Rehabilitation Program. Construction was completed June 2024.
- **Allen-McColloch Pipeline Urgent PCCP Rehabilitation**—This project will perform urgent relining of approximately three miles of distressed PCCP segments of the Allen-McColloch Pipeline (AMP) that were discovered during an inspection in 2023. Relineing of the AMP is being performed in stages to minimize impacts to member agencies by installing a bulkhead and returning the northern portion of the pipeline to service while the southern portion remains under construction. Stage 1 includes carbon fiber reinforced polymer (CFRP) lining of four segments and steel relining of approximately 4,500 feet of pipeline. Construction of the CFRP and 2,100 feet of steel liner within the northern portion of the AMP was successfully completed in April 2024. The remaining 2,300 feet of steel liner installation in the southern portion is approximately 60 percent complete and will be finished by October 2024. Stage 2 work consists of 12,600 feet of steel liner installation and appurtenant work. The Board awarded the Stage 2 contract in May 2024. The Stage 2 contractor has completed potholing, is mobilizing in July, and construction is planned to be completed by December 2024.
- **Foothill Feeder Acoustic Fiber Optic (AFO) Installation**—This project will install an acoustic fiber optic monitoring system within the 201-inch diameter Foothill Feeder to allow continuous monitoring of the 6.5 miles of PCCP portions, eliminating the need for expensive prolonged shutdowns. Final design is approximate 30 percent complete and is planned for completion by November 2024. Installation of the AFO system is scheduled during the Foothill Feeder Shutdown in January 2026.
- **Sepulveda Feeder Relineing Reach 2**—This project installs steel lining along 3.8 miles of PCCP through several cities including the cities of Torrance and Los Angeles. Final design is approximately 98 percent complete and is scheduled to be completed by August 2024.



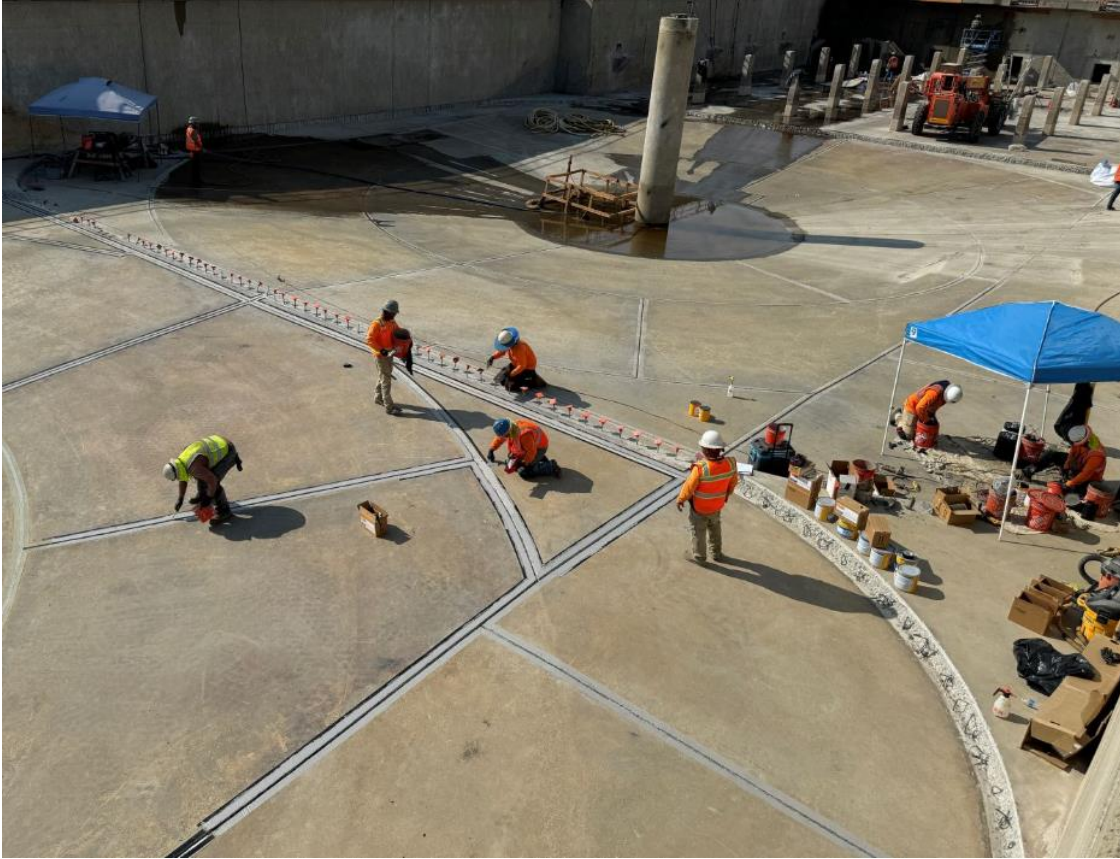
Allen-McColloch Pipeline Urgent PCCP Rehabilitation—Pipe Laydown Area at Pipe Access Site



## Water Treatment Plants Program

The Water Treatment Plants Program is comprised of CIP projects to replace or refurbish facilities and components at Metropolitan's five water treatment plants and the chemical unloading facility to continue to reliably meet treated water demands.

- **Weymouth Basins 5–8 and Filter Building No. 2 Rehabilitation**—This project rehabilitates major mechanical and structural components of Basins 5–8 and Filter Building No. 2 at the Weymouth plant, including the flocculation/sedimentation equipment, sludge pumps, baffle boards and walls, launders, inlet gates, and outlet drop gates. Rehabilitation work also includes seismic upgrades of basin walls and inlet channel, hazardous material abatement, and replacement of filter valves and actuators in Filter Building No. 2. The contractor completed all rehabilitation work in Basins 7 and 8, and continued construction activities in Basins 5 and 6 and Filter Building No. 2. Overall construction for this contract is approximately 70 percent complete and is scheduled to be completed in July 2025.
- **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 as well as 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 project constructability review workshop was completed in July 2024. Final design is approximately 60 percent complete and is scheduled to be completed in April 2025.
- **Mills Electrical Upgrades**—This project upgrades the electrical system with dual-power feeds to key process equipment to comply with current codes and industry practice, improve plant reliability, and enhance worker safety. Stage 1 construction is complete. Stage 2 improvements will add a second incoming 12 kV service from Riverside Public Utilities, reconfigure the existing 4.16 kV switchgear, and replace the standby generator switchgear and the emergency generator programmable logic controller. The contractor continued bench testing and began installation of the switchgear doors inside the Ozone Switchgear Building. Construction is approximately 67 percent complete and is scheduled to be completed in August 2025.
- **Jensen Ozone PSUs Replacement**—This project rehabilitates the ozone generation system at the Jensen plant by replacing four existing ozone power supply units (PSUs) and four sets of generator dielectrics. The project also makes required modifications to the associated electrical, control, and cooling water systems. Replacement of the PSUs had been staged to ensure continuous use of ozone during construction. The contractor has completed replacement of all PSUs and the ozone generator dielectrics. Performance testing is underway. Construction is complete.
- **Diemer Filter Rehabilitation**—This project rehabilitates the 48 filters at the Diemer plant by improving critical filter features, replacing filter media, and installing filter valve actuators, along with modifications to the filter upstream influent weir, surface wash laterals, instruments, and appurtenances. The planned upgrades also include improving the coal grit removal facilities for the east and west side of the plant. Final design is approximately 70 percent complete and is scheduled to be completed in December 2024.



Weymouth Basins 5–8 and Filter Building No. 2 Rehabilitation—Installing Joint Sealant at Basin 5



## Adapt to changing climate and water resources

### Pure Water Southern California

The Pure Water Southern California (PWSC) Program is a large regional recycled water program that will provide a new local source of safe and reliable drinking water for Southern California. PWSC currently focuses in four areas: demonstration testing, environmental planning, technical studies, and preliminary design of initial pipeline reaches. PWSC will produce 150 million gallons per day (mgd) of purified water from the Advanced Water Purification Facility (AWPF) in Carson, for indirect potable reuse (IPR) and direct potable reuse (DPR) applications, with the initial deliveries by 2030 and completion by 2035.

- **Demonstration Testing:** Demonstration testing began in 2019 with N-only tertiary membrane bioreactor (tMBR) testing completed in 2021 and secondary MBR (sMBR) testing completed in 2023. Modifications for tMBR optimization testing have been completed. The system is online and currently operating in the nitrification/denitrification mode.

- **Environmental Planning:** The Environmental Planning Phase began in 2020 with the goal of preparing an EIR for approval in 2025. Various technical studies have been prepared to support the effort. The draft EIR is currently scheduled for publication in late 2024 or early-2025, with board certification of the document by the end of 2025 or early 2026. Staff continues to review individual draft technical sections and prepare the remaining technical studies.
- **Program Management:** PWSC program management efforts lead the planning for the Program, including project controls, scheduling, budget development, risk management, coordination with Program partners and stakeholders, grants and funding, and preparation of various plans and studies.
  - Metropolitan hosted a grant award ceremony at the Napolitano Innovation Center in Carson on May 28, 2024, for recipients of the U.S. Bureau of Reclamation (USBR) Large-Scale Water Recycling grant (LSWR), where the USBR announced that they intend to grant Metropolitan up to \$99,199,096 to advance the PWSC planning and design efforts. To receive funding from the grant, Metropolitan is required to contribute a three-times expenditure of matching funds. It is anticipated that a portion of the matching funds would be met with contributing funds from program partners including the Los Angeles County Sanitation Districts (LACSD). Staff plans to provide an update to the Board in August and to return to the Board this fall to amend the agreement with LACSD and request authorization to adopt a resolution to receive and match the USBR grant funding.
  - A second grant application to the LSWR program was prepared and submitted to the USBR in May for up to \$26 million dollars, or the difference between the initial grant request of \$125 million and the amount awarded.
  - The next PWSC/Regional Conveyance Subcommittee meeting will be in September 2024 and will include a Program update, grant status, and an agreement discussion.
  - Project management efforts include continuing development of program governance and applicable program management information systems. Technical studies are being prepared for support of a direct potable reuse white paper, treated water augmentation at the Diemer Water Treatment Plant, how to address Per- and polyfluoroalkyl substances compounds in the EIR, and development of program phasing options.
- **Advanced Water Purification Facility:** The AWPf will purify wastewater from LACSD's A.K Warren Water Resource Facility (Warren Facility) using membrane bioreactors (MBRs), reverse osmosis (RO), and ultraviolet/advanced oxidation (UV/AOP).
  - A draft conceptual facilities plan has been prepared to document key assumptions of AWPf components. The final draft plan is currently being prepared.
  - The progressive design build alternative delivery methodology will be employed to design and construct the treatment plant facilities.
  - A proposed Request for Qualifications (RFQ) from qualified firms to design and construct the AWPf is scheduled for the third quarter of 2024 with authorization of this procurement as early as late 2024.

- Metropolitan has finalized the Method of Services (MOS) study agreements with Southern California Edison (SCE) for SCE to evaluate SCE infrastructure needed to meet AWPf power requirements. The MOS investigation is anticipated to be complete later this year.
- **Direct Potable Reuse (DPR):** The California Division of Drinking Water (DDW) published the final DPR regulations in December 2023. Metropolitan has completed bench-scale testing to screen the potential DPR treatment processes that could be used for the program. Planning of pilot-scale testing is in progress. Following a technical workshop with the Independent Scientific Advisory Panel (ISAP) in March 2024, a DPR white paper has been developed to establish Metropolitan’s DPR implementation approach via the PWSC Program. Potential opportunities for treated water augmentation (TWA) are also being investigated, and a technical memorandum is being prepared.
- **Conveyance Pipeline System:** The PWSC conveyance system consists of the backbone pipeline, which extends over 40 miles from the AWPf in the city of Carson to as far north as the city of Azusa; repurposing an existing pipeline owned by another agency (Phase 1) and new DPR pipeline (Phase 2) to convey water from the backbone eastward for raw water augmentation at Metropolitan’s Weymouth Plant in the city of La Verne. It also includes several pump stations, service connections, isolation valves, and other pipeline appurtenances. As part of the current environmental planning phase efforts, the project team is preparing the Conveyance System Conceptual Design Report to support the environmental studies and permitting processes required by CEQA. The draft report was recently completed and is currently being reviewed by the project team, with the final report anticipated by the end of the year. In addition, Metropolitan’s Board authorized consulting agreements for preliminary design of the first two pipeline reaches in March 2023, and both projects are on schedule to complete preliminary design by end of the year.
  - **Reach 1**—This reach is approximately 6 miles long and runs through the city of Carson. Current work includes utility field investigation and geotechnical work, as well as the completion of the draft preliminary design report and associate engineering drawings. Preliminary design is 80 percent complete and is scheduled to be completed by Fall 2024.
  - **Reach 2**—This reach is approximately 8 miles long and runs through the cities of Long Beach and Lakewood. Current work includes utility field investigation and geotechnical work, as well as coordination with Long Beach Utilities District, Caltrans and other permitting entities for the major tunnel crossing of the I-710 and Los Angeles River. Preliminary design is 45 percent complete and is scheduled to be completed by late 2024.
  - **LiDAR Survey**—Metropolitan’s Field Survey Team completed a vehicle-mounted LiDAR survey of Reaches 1 and 2 in April 2024. The team’s LiDAR equipment allows the capture of billions of data points while staff drives along the pipeline alignment. The data is processed into a “point cloud” that can be used by engineers to simplify and optimize the design process. The equipment significantly reduces survey time: the team completed the LiDAR survey in three days, whereas a traditional survey to collect the same data would have required 3-4 months.



PWSC Reaches 1 and 2—Point cloud data from LiDAR survey

## Drought Mitigation – State Water Project Dependent Areas

The Drought Mitigation—State Water Project (SWP)-Dependent Areas Program is composed of 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.

- **Wadsworth Bypass**—This project installs a bypass pipeline and an isolation valve to interconnect the Wadsworth Pumping Plant with the Eastside Pipeline. This is one of the several projects needed to deliver water from Diamond Valley Lake (DVL) to the Rialto Pipeline. The contractor completed installation of all piping during the April shutdown and is currently awaiting delivery of long-lead electrical equipment. Construction is approximately 87 percent complete and is scheduled to be completed in July 2025.
- **Inland Feeder-Rialto Intertie**—This project installs an interconnection pipeline and isolation valve structure between the Inland Feeder and Rialto Pipeline, so that water can be delivered from DVL to the Rialto Pipeline. The contractor has completed excavation and has started construction of the isolation valve vault. Construction is approximately 25 percent complete and is scheduled to be completed in June 2025.
- **Badlands Surge Tank**—This project, which will install a new hydraulic surge tank at the south portal of the tunnel, will protect the Inland Feeder from excessive negative pressures that could develop from an unexpected shutting down of the pumps at Wadsworth Pumping Plant. The contractor has completed excavation and started construction of the isolation valve vault. Construction is approximately 20 percent complete and is scheduled to be completed in June 2025.

- **Sepulveda Feeder Pumping Stations, Stage 1**—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 Jensen plant-exclusive area. This project uses a progressive design-build (PDB) project delivery method. The Board awarded a Phase 1 PDB agreement in September 2023. A July board action authorized amending the agreement for procurement of the transformers. A September 2024 board action is planned for the procurement of the remaining long-lead equipment. Phase 1, which includes site investigation, design to the 70 percent level, and development of a guaranteed maximum price to complete all work is scheduled to be completed in November 2024.



Inland Feeder-Rialto Intertie—Placing Reinforcing Steel for the Valve Vault Foundation



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 the use of 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 multiple stages in a project's life cycle.

- **F.E. Weymouth Water Treatment Plant Admin Building Seismic Upgrades and Building Improvements – Constructability Review (CR) Workshop**—In July, Engineering completed a Constructability Review Workshop for the Weymouth Water Treatment Plant Administration Building Seismic Upgrades and Building Improvement Project. Improvements to the administration and control buildings include strengthening of concrete walls and slabs, addition of micropiles, rerouting chemical lines, and installation of natural gas line, among other functional improvements to the Administration and Control Buildings. The CR workshop focused on developing a construction sequencing plan addressing key challenges of relocating building occupants, relocating the control room functions, procuring temporary facilities, and coordinating utility work, while ensuring continuity of plant operations and minimizing O&M impacts. The review team included Metropolitan staff from Engineering, Weymouth Plant Operations, Environmental Planning, Water Quality, and consultant staff.



Weymouth Water Treatment Plant – Administration Building

- **San Diego Canal Radial Gate Rehabilitation—Constructability Review (CR) Workshop**—In July, Engineering completed a Constructability Review Workshop for the San Diego Canal Radial Gates Rehabilitation Project. This project will replace the existing deteriorated V-06 and V-08 radial gates along the San Diego Canal, replace the gate actuators, update instrumentation, install new electrical cabinets, implement security upgrades, and pave access roads. The workshop focused on radial gates fabrication, construction sequencing, shutdown planning, constructability and biddability, and risk assessment and mitigation. The CR team included Metropolitan and consultant staff specializing in construction management, construction cost estimating, and scheduling, as well as Operations O&M staff.



San Diego Inlet Canal to Lake Skinner Reservoir Radial Gate V-06



## Partner with interested parties and the communities we serve

### Project Labor Agreement

Engineering staff continues to administer the Project Labor Agreement (PLA), which the Board of Directors adopted in October 2022. PLAs require all contractors—union and non-union—to follow specific labor requirements such as payment of prevailing wages, ensuring worker training and workforce development, supporting apprenticeship programs, and hiring local and transitional workers. PLAs provide a reliable supply of skilled labor, a labor dispute resolution process, and prevention of work stoppages to minimize disruption to critical projects. Currently, 11 active construction contracts are covered by the PLA, including the Sepulveda Feeder Pump Station progressive design-build agreement.

Metropolitan's PLA has a hiring goal requirement of 60 percent for local workers and 15 percent for transitional workers. It also provides for the development of construction career opportunities by implementing a Construction Careers Pipeline Program to recruit, train, and employ local and transitional workers. Engineering staff has worked closely with contractors subject to the PLA to facilitate partnering with Multi-Craft Core Curriculum (MC3) or apprenticeship readiness programs as a pipeline for local and transitional workers.



Metropolitan's PLA is project-specific and typically includes larger projects to limit the impact on small businesses and non-union contractors. In addition, staff continues to engage in ongoing outreach and education efforts to assist union and non-union small businesses in bidding on Metropolitan's public works solicitations. In examining the impact of the PLA on non-union contractors since implementation, staff noted a slight increase in union prime bidders and a moderate increase in union subcontractors on PLA-covered projects.

Staff will provide a comprehensive annual update to the Board in November on PLA-related activities and recommend adding several upcoming projects to the amended PLA.