



THE METROPOLITAN WATER DISTRICT  
OF SOUTHERN CALIFORNIA

# Board Report

## Engineering Services Group

- **Capital Investment Plan quarterly report for period ending March 30, 2024**

### Summary

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The attached report provides a summary of actions and accomplishments on the Capital Investment Plan (CIP) during the third quarter of fiscal year 2023/24. It also provides updates on the status of capital projects and capital expenditures to date, and information regarding service connections and relocations authorized by the General Manager during the reporting period of January to March 2024, the third quarter of fiscal year 2023/24, and the seventh quarter of the fiscal years 2022/23 and 2023/24 biennium.

### Purpose

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Administrative Code Requirement Section 2720(a)(1): General Manager's Quarterly Reports

Section 2720 of Metropolitan's Administrative Code requires the General Manager to report quarterly to the Engineering and Operations Committee on the Capital Investment Plan.

Sections 4700-4708 of Metropolitan's Administrative Code requires the General Manager to report on service connections approved by the General Manager with the estimated cost and approximate location of each.

Section 8122(c) of Metropolitan's Administrative Code requires the General Manager to report on the execution of any relocation agreement under the General Manager's authority involving an amount in excess of \$100,000.

Highlights of progress and major milestones on selected projects are presented in the attached report grouped by CIP program.

### Attachments

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Capital Investment Plan quarterly report for period ending March 2024



The Metropolitan Water District of Southern California

# Capital Investment Plan

## Quarterly Report

January - March 2024



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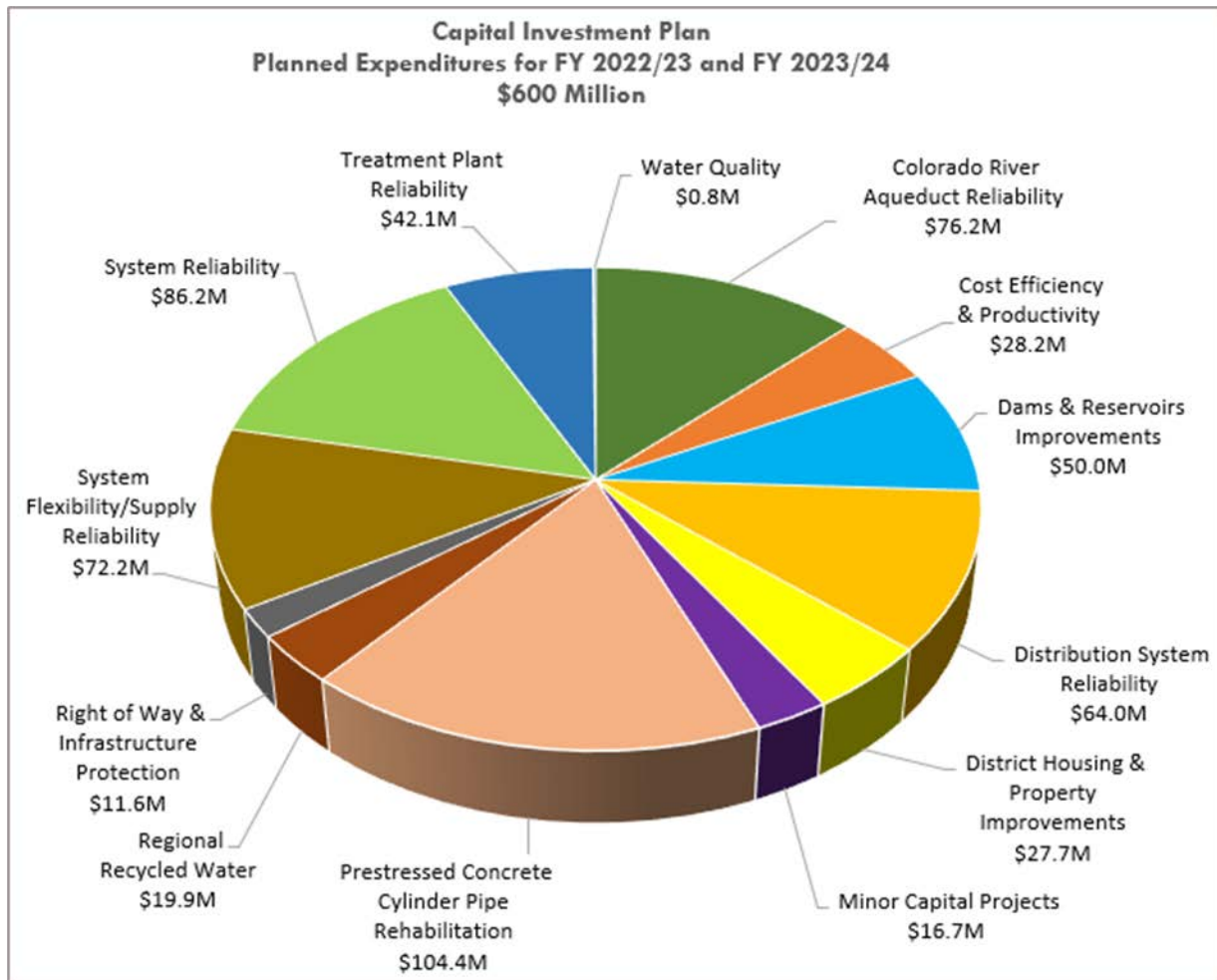
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# Capital Investment Plan for Fiscal Years 2022/23 & 2023/24

Metropolitan’s total planned capital expenditures for Fiscal Years (FYs) 2022/23 and 2023/24 are \$600 million. Figure 1 below shows the planned expenditures by program. In April 2022, the Board appropriated \$600 million and delegated authority to the General Manager, subject to both CEQA requirements and the General Manager’s authority as addressed in Metropolitan’s Administrative Code, to initiate or proceed with work on all planned capital projects identified in the Capital Investment Plan (CIP) for FYs 2022/23 and 2023/24.

Figure 1: CIP for FY 2022/23 and FY 2023/24 by Program



[Cover photos: (left to right; top to bottom): Perris Valley Pipeline I-215 Tunnel Crossing – crane hoisting micro tunnel boring machine head out of Shaft No. 4; Lake Mathews PCCP Rehabilitation Valve Storage Building – site overview; Perris Valley Pipeline I-215 Tunnel Crossing – concrete inspector Nancy Casillas, who is a transitional worker under Metropolitan’s Project Labor Agreement; Wadsworth Pumping Plant Bypass Pipeline – placement of 96-inch bypass pipeline]

## Executive Summary

This report provides a summary of the Capital Investment Plan (CIP) activities and accomplishments during the 3<sup>rd</sup> Quarter of Fiscal Year (FY) 2023/24, which ended in March 2024. CIP expenditures through the 3<sup>rd</sup> Quarter totaled \$524.3 million and the expenditures are projected to be between \$614 million and \$626 million at the end of the biennium. The higher than previously projected spending is due to unplanned urgent rehabilitation work on the Allen-McColloch Pipeline (AMP). The CIP funds allocated to specific projects through the reporting quarter totaled \$583.3 million, leaving approximately \$16.7 million available to be allocated during the remainder of the current biennium.

During the quarter, seventeen project-specific board actions were heard in open sessions. Three construction contracts and four procurement contracts were awarded by the Board during the reporting period with a total contract amount of approximately \$15.7 million. During the same time, a total of approximately \$73.5 million in contract payments were authorized, reflecting construction progress on projects such as Colorado River Aqueduct (CRA) Conduit Structural Protection, CRA Conveyance System Level Sensor Installation, CRA Pumping Plants - Domestic Water Treatment System Replacement, CRA Pumping Plants –Overhead Crane Replacement, Foothill Hydroelectric Power Plant Seismic Upgrade, Hinds, Eagle Mountain, and Iron Mountain Pumping Plants Storage Buildings, La Verne Shops Building Completion – Stage 5, Perris Valley Pipeline Interstate 215 Tunnel Crossing, San Diego Canal Concrete Liner Rehabilitation, Second Lower Feeder PCCP Rehabilitation – Reach 3B, Wadsworth Pumping Plant Bypass Pipeline, Weymouth Basins 5-8 & Filter Building No. 2 Rehabilitation, and Weymouth Plant Battery Energy Storage System.

## Board Action Summary

During the 3<sup>rd</sup> Quarter, board actions heard in open session included seventeen project-specific actions summarized in Table 1 below. These actions awarded seven contracts totaling approximately \$15.7 million, authorized five new professional/technical services agreements for a not-to-exceed amount of approximately \$9.4 million, authorized software licenses for a not-to-exceed amount of approximately \$0.8 million, authorized an increase to three professional/technical services agreements for an amount not-to-exceed approximately \$7.3 million, authorized increases in change order authority to four existing contracts for a not-to-exceed amount of approximately \$29.3 million, and authorized an increase to an existing purchase order for a not-to-exceed amount of approximately \$0.3 million. Information on the awarded contracts can be found in Table 9 of this report. The table below excludes information on board items heard in closed session.

Table 1: 3<sup>rd</sup> Quarter Board Actions

Month	Board Letter Item No.	Project	Action taken
January	7-2	CRA Domestic Water Treatment System Upgrades	Authorized an increase of \$4,800,000 in change order authority
January	7-3	Eastern Region Security Camera Upgrade Areas 1 and 2 & Western Region Security Camera Upgrade Areas 2, 4, 6, and 8	Authorized two agreements for a total not-to-exceed \$5,685,000
January	7-4	Foothill Feeder Blow Off Valves Replacement and Rialto Pipeline Rehabilitation	Awarded a \$549,592.04 procurement contract
January	7-5	Services Procurement Implementation	Authorized an agreement not-to-exceed \$800,000

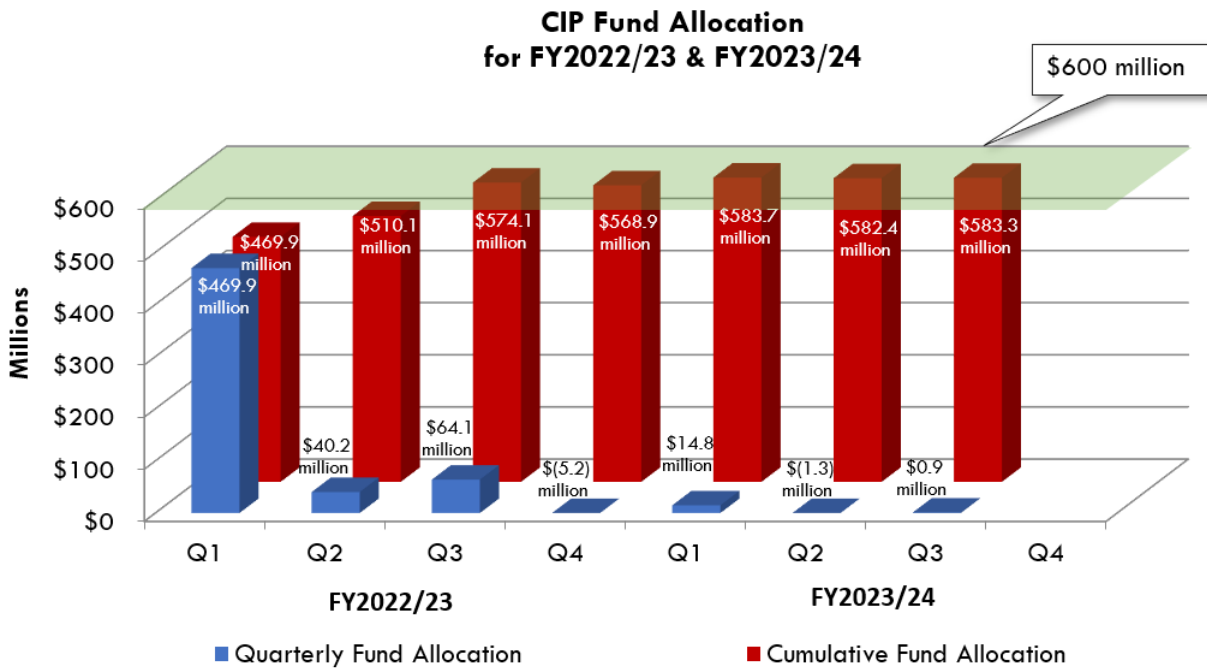
Month	Board Letter Item No.	Project	Action taken
January	7-6	Application-Servers Upgrade from Old Windows Operating System	Authorized an agreement not-to-exceed \$1,923,940 and software licenses not-to-exceed \$801,900
February	7-1	Foothill Feeder Acoustic Fiber Optic PCCP Monitoring System	Authorized an increase not-to-exceed \$4,340,000 to an existing agreement
February	7-2	Diamond Valley Lake Floating Wave Attenuator System Improvements – Stage 2	Awarded a \$7,842,856 construction contract
February	7-3	Jensen Modules 2 & 3 and Mills Basin Solids Removal System Rehabilitation	Authorized an agreement not-to-exceed \$1,000,000
February	7-4	CRA Main Pump Rehabilitation Pilot - Gene Pumping Plant Unit No. 1 Brushless Motor Exciter System	Awarded a \$544,501 procurement contract
February	7-5	Weymouth Hazardous Waste Staging and Containment	Awarded a \$2,375,700 construction contract
February	8-1	Allen-McColloch Pipeline PCCP Urgent Relining 2024 - Stages 1 and 2	Authorized increases for three change order authorities totaling \$24,500,000 for two construction and one procurement contracts
March	7-1	Weymouth Area Paving	Awarded a \$1,754,000 construction contract
March	7-2	East Lake Skinner Bypass and Bypass No. 2 Screening Structure Upgrade	Awarded a \$892,552 procurement contract
March	7-3	Inland Feeder/SBVMWD Foothill Pump Station Intertie – Stage 2	Awarded a \$1,779,174 procurement contract and authorized an increase of \$260,000 to an existing agreement
March	7-4	Iron Mountain Station Light & Power Electrical Improvements	Authorized an increase of \$2,700,000 to an existing agreement
March	7-5	Sepulveda Feeder Pump Stations - Stage 2 and Inglewood Lateral Improvements	Authorized two unplanned projects
March	7-7	Weymouth Filter Valve Replacement	Authorized an increase of \$320,000 to an existing purchase order

The previously referenced April 2022 board action appropriated \$600 million to perform work on planned CIP projects through the current biennium. To be considered a planned project, the project must be identified and described in the Capital Investment Plan Appendix for the two-year budget cycle. Consistent with this action, all requests to allocate funds and proceed with planned CIP projects are reviewed and approved by the Chief Engineer acting under the General Manager's authority. Unplanned projects, those which are not already identified in the CIP Appendix, require a

separate board authorization. During the 3<sup>rd</sup> Quarter, the board amended the CIP to include two new CIP projects, Sepulveda Feeder Pump Stations - Stage 2 and Inglewood Lateral Improvements.

Figure 2 shows the allocation of the funds from Appropriation No. 15525 for this quarter and total for the current biennium through the quarter, which is approximately \$583.3 million, leaving approximately \$16.7 million available to be allocated during the remainder of the current biennium. This amount includes allocation of \$15 million to the Minor Capital Projects Program. During the 3<sup>rd</sup> Quarter, approximately \$17.8 million was allocated for work authorized and approximately a net amount of \$16.9 million was allocated back to the CIP Appropriation 15525. Details of the allocations for work authorized during the reporting quarter and from the prior biennium can be found in the **Project Actions** section.

Figure 2: CIP Fund Allocation from Appropriation No. 15525 – FY 2022/23 and FY 2023/24



\*Numbers may not sum due to rounding

Information on construction and procurement contracts activities for the 3<sup>rd</sup> Quarter of FY 2023/24 is presented in the **Construction and Procurement Contracts** section of this report. Progress payments for these contracts in the 3<sup>rd</sup> Quarter totaled approximately \$73.5 million and primarily reflect construction progress on Colorado River Aqueduct (CRA) Conduit Structural Protection, CRA Conveyance System Level Sensor Installation, CRA Pumping Plants - Domestic Water Treatment System Replacement, CRA Pumping Plants - Overhead Crane Replacement, Foothill Hydroelectric Power Plant Seismic Upgrade, Hinds, Eagle Mountain, and Iron Mountain Pumping Plants Storage Buildings, La Verne Shops Building Completion - Stage 5, Perris Valley Pipeline Interstate 215 Tunnel Crossing, San Diego Canal Concrete Liner Rehabilitation, Second Lower Feeder PCCP Rehabilitation - Reach 3B, Wadsworth Pumping Plant Bypass Pipeline, Weymouth Basins Nos. 5-8 & Filter Building No. 2 Rehabilitation, and Weymouth Plant Battery Energy Storage System.

## Planned Expenditure and Budget

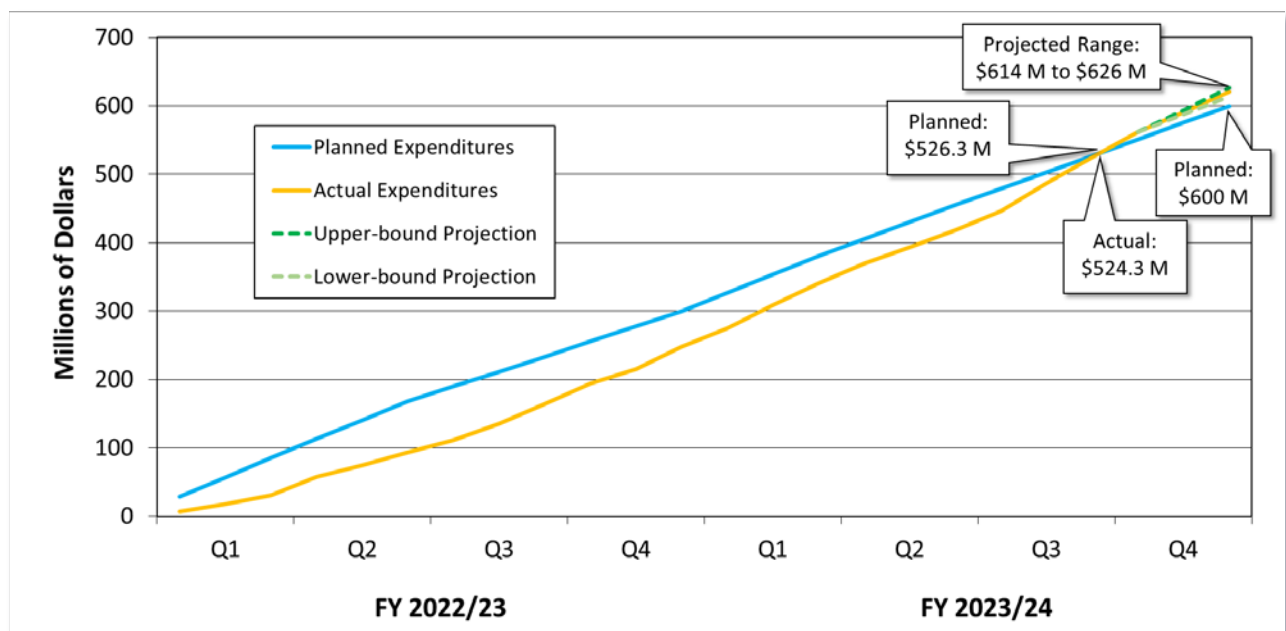
Table 2 and Figure 3 below show planned and actual expenditures for the biennium through the end of the 3<sup>rd</sup> Quarter of FY 2023/24, and the forecast of expenditures through the end of the current biennium, against planned expenditures for the same time interval. Actual expenditures through the 3<sup>rd</sup> Quarter of FY 2023/24 were approximately 100% of planned expenditures.

Table 2: Planned & Actual Expenditures for FYs 2022/23 & 2023/24

Quarter	Planned Expenditures (millions)	Actual Expenditures (millions)
FY 2022/23, Q1	\$85.3	\$30.4
FY 2022/23, Q2	\$82.8	\$63.4
FY 2022/23, Q3	\$64.9	\$70.2
FY 2022/23, Q4	\$67.0	\$83.7
FY 2023/24, Q1	\$80.2	\$93.2
FY 2023/24, Q2	\$75.1	\$77.5
FY 2023/24, Q3	\$71.1	\$106.0
<b>Totals*</b>	<b>\$526.3</b>	<b>\$524.3</b>

\* Numbers may not sum due to rounding.

Figure 3: Current Biennium – Planned, Actual & Forecasted Expenditures



As shown in Figure 3, the total planned expenditures in the current biennium are \$600 million. The projected expenditures for the biennium are currently projected to be between \$614 million and \$626 million with the actual expenditures 49% higher than the planned expenditures during the 3<sup>rd</sup> Quarter of FY 2023/24. The higher than previously projected spending is due to unplanned urgent rehabilitation work on the Allen-McColloch Pipeline (AMP) in response to inspections conducted in late 2023. These inspections indicated significant deterioration of the prestressed concrete cylinder pipe (PCCP) over portions of the pipeline. By the end of the 4<sup>th</sup> Quarter of FY 2023/24, approximately \$31 million in unplanned CIP expenditures are now expected to occur in the current biennium to address the distressed sections of pipe on the AMP.



## Funding of Infrastructure Projects with Outside Sources

This section provides information on select grants and other outside sources of funds that Metropolitan receives to support infrastructure projects. The expenditures related to these outside funding sources will be reported in subsequent quarters as the funds are received and expenditures are recorded.

### Pure Water Southern California

In December 2022, Metropolitan's Board authorized the General Manager to use \$80 million in project funding from the State Water Resources Control Board (SWRCB) to commence activities related to the initiation of the Pure Water Southern California program. Metropolitan has received the \$80 million funding in one lump sum payment on May 24, 2023, to support the design activities for the program. Funds are available for expenditure until June 30, 2026. The use of these funds is not considered as part of Metropolitan's CIP expenditures. During the reporting quarter, State funds were used to support program management tasks, including the preparation of various plans for program implementation, and preliminary design of the initial two reaches of the conveyance pipelines.

Metropolitan is currently discussing with the program partners Los Angeles County Sanitation Districts (LACSD), Southern Nevada Water Authority (SNWA) and the Arizona Department of Water Resources to determine their potential contributions to the program.

The U.S. Bureau of Reclamation (USBR) awarded a \$5 million WaterSMART grant to Metropolitan in 2023. Negotiations have been completed and an agreement is anticipated in May. A three-time matching fund is required for this grant. Metropolitan also submitted an application for up to \$125 million Large Scale Water Recycling (LSWR) grant to USBR in November 2023 which would require \$375 million in matching funds. USBR plans to notify applicants of any grant award next quarter. Authorization to accept the award and the commitment of matching funds will need to be approved by the Board.

### Drought Mitigation Projects

In December 2022, Metropolitan's Board adopted a resolution to accept \$50 million in state funding from the California Department of Water Resources to support Metropolitan's drought mitigation projects. The Board also designated the Group Manager of Engineering Services to be the signatory to execute actions related to the funds. The California Department of Water Resources (DWR) will administer the funds and release the reimbursement after Metropolitan invoices expenses. The \$50 million fund is available for reimbursement through June 30, 2026, and five percent of this amount may be used for administrative costs by DWR. From the state-allocated amount, it allocated to Metropolitan \$47.5 million to improve and expand its infrastructure so that it will be more resilient and flexible to respond to fluctuating water supplies from each of its imported water sources and to enhance the ability to convey water throughout all its service area. Unlike the funds received for Pure Water discussed above, under this grant, staff will be required to submit invoices to DWR in order to receive reimbursement of expenditures that comply with the grant requirements. To date, three projects on the east side of Metropolitan's system are covered under this grant, and each of the three projects is in construction as part of an overall plan to connect DVL supplies to the Rialto Pipeline. During the reporting quarter, a progress report and invoices up to December 2023 were submitted and approved by DWR for \$4.15 million to be reimbursed. First reimbursement of \$797,000 was issued in late March. It is anticipated that approximately \$14.5 million of contract spending will be submitted for reimbursement under this grant through the end of June 2024. This funding allows additional rehabilitation projects to proceed as a result of applying state grant funds towards the applicable CIP projects.

### Battery Energy Storage System Projects

In October 2020, Metropolitan's Board authorized amending the CIP Appendix to add unplanned battery energy storage system (BESS) projects to enhance the efficiency of Metropolitan's long-term power use, provide a hedge against projected electricity price increases, and improve the resiliency of the electric power supply at the Jensen, Skinner, and Weymouth Water Treatment Plants. This decision was aided by the California Public Utilities Commission's enhanced incentives for microgrid-capable BESS at critical facilities, which are expected to reimburse Metropolitan for \$10.3 million of project costs. Construction of the BESS systems is underway with Weymouth BESS construction estimated to be completed in the first half of FY 2024/25 and Jensen & Skinner BESS construction

estimated to be completed in FY 2024/25. Unlike the funds received for Pure Water discussed above, the incentive will be paid to Metropolitan in phases: 50 percent at project completion, with the remaining 50 percent paid equally over five years upon annual proof of a 5 kg CO<sub>2</sub>/kWh reduction in greenhouse gas emissions.

### Webb Tract Delta Island Flooded Wetlands and Rice Field System Project

In May 2023, Metropolitan's Board adopted a resolution to support a grant application for \$20.9 million grant from the Sacramento-San Joaquin Delta Conservancy (Delta Conservancy) and staff signed a grant agreement with Delta Conservancy in March 2024 that funds two projects on Webb Tract, a Metropolitan-owned island located in Contra Costa County. The two projects include construction of up to 1,500 acres of rice fields and design, permitting, and construction of up to 3,500 acres of wetland on the island. Unlike the funds received for Pure Water discussed above, under this grant, staff will be required to submit invoices to Delta Conservancy in order to receive reimbursement of expenditures that comply with the grant requirements. During the reporting quarter, staff initiated an analysis to identify the best fields for rice production and once completed, an RFP will be released to solicit a farming interest to prepare the land and grow rice. An RFP is scheduled to be released during the next quarter. Wetland design also was initiated during the reporting quarter shortly after the grant agreement was executed. An alternatives analysis is currently in progress with selection of a preferred alternative expected early June 2024, at which point the first invoice will be submitted for Delta Conservancy's approval. Design and permitting of the wetlands are estimated to be completed in the summer of 2025, and construction is estimated to start at the end of the same year.

## Major Capital Programs Overview

Metropolitan's CIP is structured into three levels. In descending order, they are:

- Program
- Project Group/Appropriation
- Project

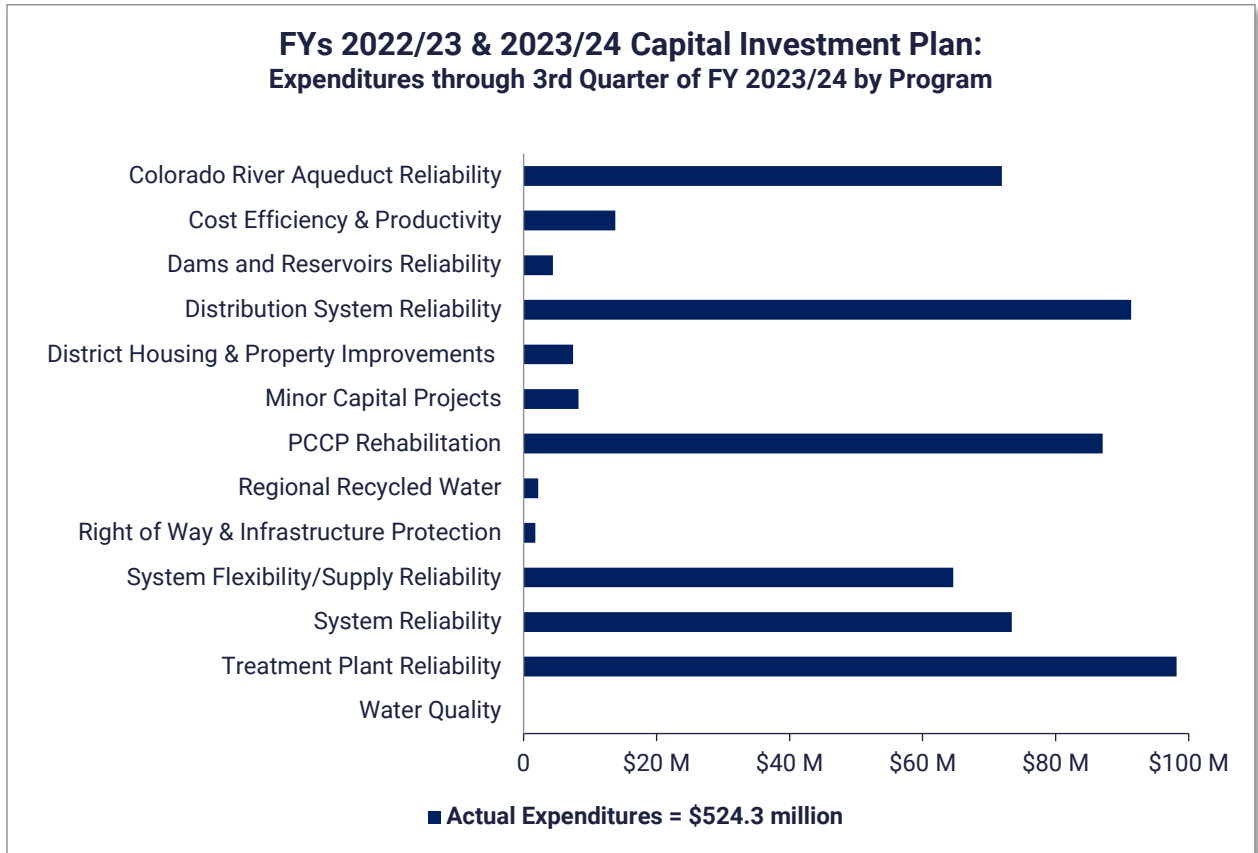
Metropolitan's CIP is comprised of 13 programs, which capture all projects within the CIP. The 13 capital programs are listed below in alphabetical order. Programs are comprised of one or more project groups/appropriations, and project group/appropriations are comprised of one or more projects. The status of each of the programs is provided later in this section of the report.

- Colorado River Aqueduct (CRA) Reliability
- Cost Efficiency & Productivity
- Dams & Reservoirs Improvements
- Distribution System Reliability
- District Housing & Property Improvements
- Minor Capital Projects
- Prestressed Concrete Cylinder Pipe (PCCP) Rehabilitation
- Regional Recycled Water Supply
- Right-of-Way and Infrastructure Protection
- System Flexibility/Supply Reliability
- System Reliability
- Treatment Plant Reliability
- Water Quality

For the current biennium, the CIP includes over 37 project groups, 60 planned appropriations, and 447 planned projects (excluding Minor Capital Projects). The list of appropriations that make up each of the programs, along with planned expenditures and actual costs to date for those appropriations, are provided in Table 15 at the end of this report.

Figure 4 below shows actual expenditures for the 13 capital programs for 3<sup>rd</sup> Quarter of FY 2023/24.

Figure 4: Biennium-to-date Actual Expenditures through 3<sup>rd</sup> Quarter FY 2023/24



## Major Capital Project Programs – Highlights

This section provides 3<sup>rd</sup> Quarter highlights for the 12 Major Capital Projects Programs; the Minor Capital Projects Program is highlighted in its own section of this report. Status is provided for selected projects within each Major Capital Projects Program. The selected projects typically achieved major milestones during the 3<sup>rd</sup> Quarter of FY 2023/24 or are scheduled to achieve major milestones in the next quarter.

Table 3: Major Capital Projects Programs

Program	Project
Colorado River Aqueduct (CRA) Reliability	CRA Conduit Structural Protection
Cost Efficiency & Productivity	mwdh2o.com Redesign
Dams and Reservoirs Improvements	Program highlights only
Distribution System Reliability	San Diego Canal Concrete Liner Rehabilitation at Three Sites
District Housing & Property Improvements	Program highlights only
Prestressed Concrete Cylinder Pipe (PCCP) Rehabilitation	Allen-McColloch Pipeline PCCP Urgent Rehabilitation 2024 - Stage 1
Regional Recycled Water	Program highlights only
Right-of-Way & Infrastructure Protection	Program highlights only
System Flexibility/Supply Reliability	Perris Valley Pipeline I-215 Tunnel Crossing
System Reliability	Data Center Backup Infrastructure Upgrade
Treatment Plant Reliability	Weymouth Basins Nos. 5-8 and Filter Building No. 2 Rehabilitation
Water Quality	Program highlights only



## Colorado River Aqueduct (CRA) Reliability Program

Actual Biennium Expenditures  
(Jul. 2022 through Mar. 2024)  
\$71.90 million

**Program Information:** The CRA Reliability Program is composed of projects to replace or refurbish facilities and components of the CRA system to reliably convey water to Southern California.

### Program Highlights (3<sup>rd</sup> Quarter)

#### Accomplishments

- Completed construction of the following construction contract:
  - CRA 6.9 kV Power Cable Terminations for Units 1 through 5
- Initiated construction of the following project:
  - Gene Communication System Upgrades
- Continued construction activities for the following contracts:
  - CRA Conduit Structural Protection
  - CRA Conveyance System Flow Level Sensor Installation
  - CRA Domestic Water Treatment System Upgrades at all five pumping plants
  - CRA Freda Siphon Internal Seal Installation
  - CRA Pumping Plants Overhead Cranes Replacement
  - Hinds, Eagle Mountain, and Iron Mountain Pumping Plants Storage Buildings
- Awarded a procurement contract for CRA Main Pump Rehabilitation Pilot - Gene Pumping Plant Unit No. 1 Brushless Motor Exciter System
- Advertised a procurement contract for CRA 69 kV and 230 kV Transformers Replacement
- Continued final design of the following projects:
  - Cabazon Radial Gates Facility Improvements
  - Copper Basin Reservoir Discharge Valve Structure Rehabilitation
  - CRA Desert Region Security Improvements – Stage 1
  - CRA Pumping Plant Sump System Rehabilitation
  - CRA Pumping Plant Village Utility Replacement
  - CRA Pumping Plants Main Pump Access Improvements
- Authorized consulting agreement for final design of the following project:
  - CRA Pumping Plants 2.3 kV Switchrack Rehabilitation – Iron Mountain Pumping Plant
- Continued preliminary design of the following projects:
  - CRA Desert Region Security Improvements - Stage 2
  - Hinds Pumping Plant Discharge Valve Platform Replacement
- Completed preliminary design of the following projects:
  - Black Metal Mountain 2.4 kV Electrical Power Upgrades
  - CRA Erosion Control Protection
- CRA Main Pump Motor Rehabilitation:
  - Completed study to install variable frequency drive pumps at Gene and Intake Pumping Plants

## Upcoming Activities

Upcoming work for the next quarter will include:

- Continue construction activities planned for the following contracts:
  - CRA Conduit Structural Protection
  - CRA Conveyance System Flow Level Sensor Installation
  - CRA Domestic Water Treatment System Upgrades at all five CRA pumping plants
  - CRA Pumping Plants Overhead Cranes Replacement
  - Gene Communication Reliability Upgrades
  - Hinds, Eagle Mountain, and Iron Mountain Pumping Plants Storage Buildings
- Continue final design of the following projects:
  - Cabazon Radial Gates Facility Improvements
  - Copper Basin Reservoir Discharge Valve Structure Rehabilitation
  - CRA Desert Region Security Improvements - Stage 1
  - CRA Pumping Plant Sump System Rehabilitation
  - CRA Pumping Plant Village Utility Replacement
  - CRA Pumping Plants Main Pump Access Improvements
- Initiate final design for the following projects:
  - Black Metal Mountain 2.4 kV Electrical Power Upgrades
  - CRA Erosion Control Protection
- Continue preliminary design of the following projects:
  - CRA Desert Region Security Improvements - Stage 2
  - Hinds Pumping Plant Discharge Valve Platform Replacement
- CRA Main Pump Motor Rehabilitation:
  - Continue study to assess rehabilitation options for pump units and their ancillary support systems for all five pumping plants.

**CRA Conduit Structural Protection**

**Total Project Estimate:**  
\$15.2 million

**Total Project Cost to Date:**  
\$9.0 million

This project consists of installing reinforced concrete slab protection crossings over portions of the CRA conveyance system as well as other conduit protective measures and other upgrades such as structural pads to support heavy equipment operations and access road realignments to support maintenance activities.

Phase	Construction
% Complete for Construction	78%
Construction Contract Award Date	April 2023
Estimated Construction Completion Date	February 2025
Contract Number	1895

The contractor completed work at multiple sites. Transition structure rehabilitation work was completed at two sites during the CRA shutdown. In the upcoming quarter, the contractor will continue site work and structural improvements at the remaining sites.



Transition Structure Cover Installation at Site 23 east of Hinds Pumping Plant near Desert Hot Springs

## Cost Efficiency and Productivity Program

Actual Biennium Expenditures  
(Jul. 2022 through Mar. 2024)  
\$13.79 million

**Program Information:** The Cost Efficiency and Productivity Program is composed of projects to upgrade, replace, or provide new facilities, software applications, or technology, which will provide economic savings that outweigh project costs through enhanced business and operating processes.

### Program Highlights (3<sup>rd</sup> Quarter)

#### Accomplishments

- Diamond Valley Lake Floating Wave Attenuator System Improvements – Stage 2
  - Awarded construction contract
- Diamond Valley Lake to Lake Skinner Trail
  - Continued final design
- Enterprise Content Management Phase II
  - Initiated design
- Oracle Database Upgrade
  - Continued execution of the migration plan
- Payroll-Timekeeping Reimplementation
  - Continued design
- Real Property Group Business System Replacement
  - Continued preparation for financial integration testing
- WIFI Implementation
  - Drafted consulting agreements for design at Hinds, Eagle Mountain, Iron Mountain, and San Bernardino Region sites

#### Upcoming Activities

Upcoming work for the next quarter will include:

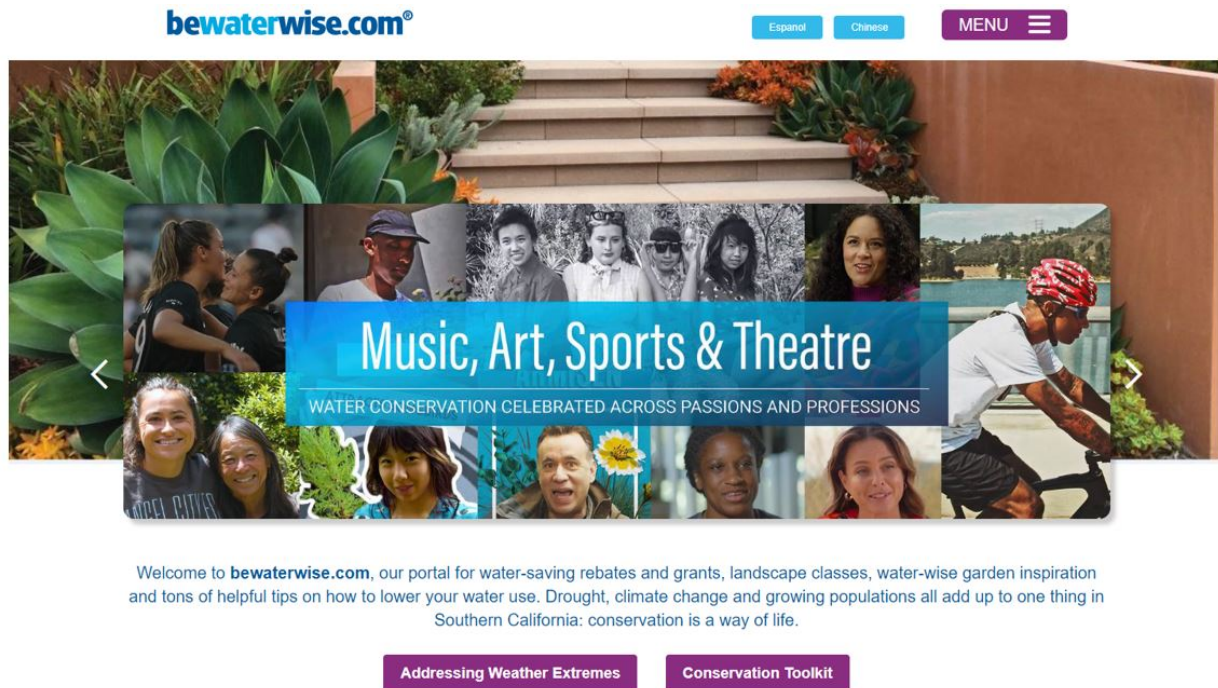
- Battery Energy Storage Systems at Jensen, Weymouth, and Skinner Plants
  - Continue construction
- Diamond Valley Lake Floating Wave Attenuator System Improvements – Stage 2
  - Continue construction
- Oracle Database Upgrade
  - Continue database migration
- Payroll-Timekeeping Reimplementation
  - Continue design
- Real Property Group Business System Replacement
  - Complete financial system integration
- WIFI Implementation
  - Advertise bid package for implementation at Metropolitan Headquarters Courtyard and Los Angeles Region sites
- WINS Water Billing System Upgrade
  - Continue system upgrade

<b>mwdh2o.com Redesign</b>	<b>Total Project Estimate:</b> \$1.86 million
	<b>Total Project Cost to Date:</b> \$1.18 million

This project will redesign and incorporate the implementation of a content management system for the current mwdh2o.com website. This project will migrate this website and four other MWD external facing websites (SocalWaterDialogue, MWDinnovates, BeWaterWise, and educational website) to be hosted in the cloud for increased security.

Phase	Development
% Complete for Current Phase	100%
Current Phase Authorized	May 2019
Completion Date of Current Phase	March 2024

The four external facing websites have been migrated into the Amazon Web Services cloud platform and deployment was completed. A maintenance support contract was established for on-going support.



Redesigned BeWaterWise External Facing Website



## Dams and Reservoirs Improvements Program

Actual Biennium Expenditures  
(Jul. 2022 through Mar. 2024)  
\$4.40 million

**Program Information:** The Dams and Reservoirs Improvements Program is composed of projects to upgrade or refurbish Metropolitan's dams, reservoirs, and appurtenant facilities to reliably meet water storage needs and regulatory compliance.

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### Program Highlights (3<sup>rd</sup> Quarter)

#### Accomplishments

- Diamond Valley Lake Dam Monitoring System Upgrades
  - Continued final design of the new system
- Garvey Reservoir Dam Monitoring System Upgrades
  - Completed final design and procured equipment for the new system
- Garvey Reservoir Rehabilitation
  - Continued final design
- Lake Skinner Outlet Tower Butterfly Valve Replacement
  - Continued valve fabrication
- Lake Skinner Outlet Tower Seismic Upgrade
  - Continued detailed seismic evaluation of outlet tower

#### Upcoming Activities

Upcoming work for the next quarter will include:

- Diamond Valley Lake Dam Monitoring System Upgrades
  - Complete final design of the system upgrade and authorize procurement of the new equipment
- Garvey Reservoir Dam Monitoring System Upgrades
  - Install and commission the new system
- Garvey Reservoir Rehabilitation
  - Continue final design
- Lake Skinner Outlet Tower Butterfly Valve Replacement
  - Continue valve fabrication
- Lake Skinner Outlet Tower Seismic Upgrade
  - Continue detailed seismic evaluation of outlet tower

## Distribution System Reliability Program

Actual Biennium Expenditures  
(Jul. 2022 through Mar. 2024)  
\$91.34 million

**Program Information:** The Distribution System Reliability Program is comprised of projects to replace or refurbish existing facilities within Metropolitan’s distribution system, including reservoirs, pressure control structures, hydroelectric power plants, and pipelines, to reliably meet water demands.

### Program Highlights (3<sup>rd</sup> Quarter)

#### Accomplishments

- Completed construction for the following construction contract:
  - San Diego Canal Concrete Liner Rehabilitation at Three Sites
- Awarded the following procurement contracts:
  - Furnishing plug valves for the Foothill Feeder Blow Off Valves Replacement and Rialto Pipeline Rehabilitation projects
  - Fabrication and delivery of three stainless steel slide gate assemblies for the East Lake Skinner Bypass and Bypass No. 2 Screening Structure Upgrade

#### Upcoming Activities

Upcoming work for the next quarter will include:

- Continue construction activities planned for the following projects:
  - Foothill Hydroelectric Power Plant Seismic Upgrade
  - OC-88 Pump Station Chiller Replacement
  - Sepulveda, West Valley, and East Valley Feeders Interconnection Electrical Upgrades
- Continue design for the following projects:
  - Auld Valley and Red Mountain Pressure Control Structures Upgrades
  - Hollywood Tunnel North Portal
- Continue procurement for the following projects:
  - Foothill Feeder Blow Off Valves Replacement
  - Lakeview Pipeline Relining - Stage 2
  - Orange County Area Pressure Control Structure Globe Valve Replacement
  - Rialto Pipeline Rehabilitation
  - Rialto Pipeline Rehabilitation at STA 2986+30
  - San Jacinto Diversion Structure Slide Gates V-01, V-02, V-03, and V-04 Rehabilitation

**San Diego Canal Concrete Liner Rehabilitation at Three Sites**

**Total Project Estimate:**  
\$6.4 million

**Total Project Cost to Date:**  
\$5.6 million

This project will remove and replace deteriorated concrete liner panels at three locations on the San Diego Canal.

Phase	Construction
% Complete for Construction	100%
Construction Contract Award Date	October 2023
Construction Completion Date	March 2024
Contract Number	2084

Construction was completed. In the upcoming quarter, a notice of completion (NOC) will be filed and the project will be closed out.



Compacting aggregate base material along side-slopes of San Diego Canal in preparation for placement of rebar and new concrete panels

## District Housing & Property Improvements Program

Actual Biennium Expenditures  
(Jul. 2022 through Mar. 2024)  
\$7.44 million

**Program Information:** The District Housing & Property Improvements Program is composed of projects to refurbish or upgrade workforce housing at Metropolitan to enhance living conditions to attract and retain skilled employees.

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### Program Highlights (3<sup>rd</sup> Quarter)

#### Accomplishments

- Continued assessment of the alternative housing analysis to provide the most optimal recommendation at four pumping plants (Hinds, Eagle Mountain, Iron Mountain, and Gene)

#### Upcoming Activities

Upcoming work for the next quarter will include:

- Complete the alternative housing analysis report to provide multiple options with a recommendation for the housing, recreational amenities and the lodges and kitchens with associated costs at four pumping plants (Hinds, Eagle Mountain, Iron Mountain and Gene)

## Prestressed Concrete Cylinder Pipe (PCCP) Rehabilitation Program

Actual Biennium Expenditures  
(Jul. 2022 through Mar. 2024)  
\$87.05 million

**Program Information:** The PCCP Rehabilitation Program is composed of projects to refurbish or upgrade Metropolitan's PCCP feeders to maintain water deliveries without unplanned shutdowns.

### Program Highlights (3<sup>rd</sup> Quarter)

#### Accomplishments

- PCCP Rehabilitation Valve and Equipment Storage Building
  - Continued construction of the pre-engineered metal building at Lake Mathews with the installation of the fire water line to the building initiated and the asphalt concrete paving continued
- Second Lower Feeder
  - Reach 3B – Continued construction activities related to the first of two planned shutdowns. Work included installation of approximately 2.4 miles of steel pipe liners, rehabilitation of ten access structures, and replacement of two service connection valves. This project will reline approximately 3.6 miles of Second Lower Feeder PCCP pipeline from the intertie with Sepulveda Feeder south to Oak Street PCS, through the cities of Torrance, Los Angeles, and Lomita, and replace three 48-inch diameter sectionalizing valves at the intertie with Sepulveda Feeder.
  - Isolation Valve Procurement – Continued fabrication and inspection of the remaining three 54-inch valves. To date, Metropolitan has received ten of thirteen large-diameter conical plug valves and actuators, including three 48-inch and seven 54-inch valves.
- Sepulveda Feeder
  - Reach 1 – Continued final design to rehabilitate approximately 4.7 miles of Sepulveda Feeder PCCP pipeline, from just north of the Inglewood Lateral south to the West Coast Feeder, through the cities of Inglewood and Hawthorne, and unincorporated Los Angeles County.
  - Reach 2 – Continued final design and permitting to rehabilitate approximately 3.8 miles of Sepulveda Feeder PCCP pipeline, from the Dominguez Gap Channel south to the intertie with Second Lower Feeder, through the cities of Torrance and Los Angeles.
  - North Reach – Continued preliminary design of the northern 20-mile portion of the Sepulveda Feeder, including both steel and PCCP portions of the pipeline and appurtenances. The westside pump stations project has prompted a re-prioritization of this northern section.
  - Reach 9 – Planned board authorization to advance the final design of Reach 9, the first construction package of the North Reach, which is necessary to support the operation of Stage 2 of the Sepulveda Feeder Pump Stations project.
  - Urgent Carbon Fiber Reinforced Polymer (CFRP) Relining at Stations 569+40, 760+33, and 921+69 – Completed CFRP relining at first and third of three repair sites and started work on the second site during the planned shutdown.
- Allen-McColloch Pipeline Urgent Relining
  - Completed final designs of Stages 1 and 2 of the urgent relining. Obtained board authorization to increase the change order authority for three existing contracts in order to procure steel liner pipe segments for Stage 1 and Stage 2 work and perform urgent rehabilitation of the Stage 1 carbon fiber and steel relining work. Completed steel liner pipe fabrication for Stage 1 and began steel liner fabrication for Stage 2. Advertised Stage 2 design for bid solicitation.



## Upcoming Activities

Upcoming work for the next quarter will include:

- PCCP Rehabilitation Valve and Equipment Storage Building
  - Complete construction of the pre-engineered metal building at the Lake Mathews site
- Second Lower Feeder
  - Reach 3B – Complete rehabilitation work related to the first shutdown, restore the Second Lower Feeder and its service connections to normal operations, and prepare for work related to the second shutdown, which is scheduled to start in December 2024 and end in April 2025.
  - Isolation Valve Procurement - Continue fabrication of the remaining three valves
- Sepulveda Feeder
  - Reach 1 - Continue final design and permitting process for long-lead permits from Caltrans, City of Los Angeles, and City of Torrance
  - Reach 2 - Continue final design and permitting process
  - North Reach – Continue preliminary design
  - Urgent Carbon Fiber Reinforced Polymer Relining at Stations 569+40, 760+33, and 921+69 – Complete all relining work
- Allen-McColloch Pipeline Urgent Relining
  - Begin Stage 1 rehabilitation work including steel relining of approximately 4,700 feet of PCCP and carbon fiber relining of approximately 41 feet of PCCP. Obtain board award of a construction contract to implement Stage 2 rehabilitation of approximately 12,700 feet of PCCP.

## Allen-McColloch Pipeline PCCP Urgent Rehabilitation 2024 - Stage 1

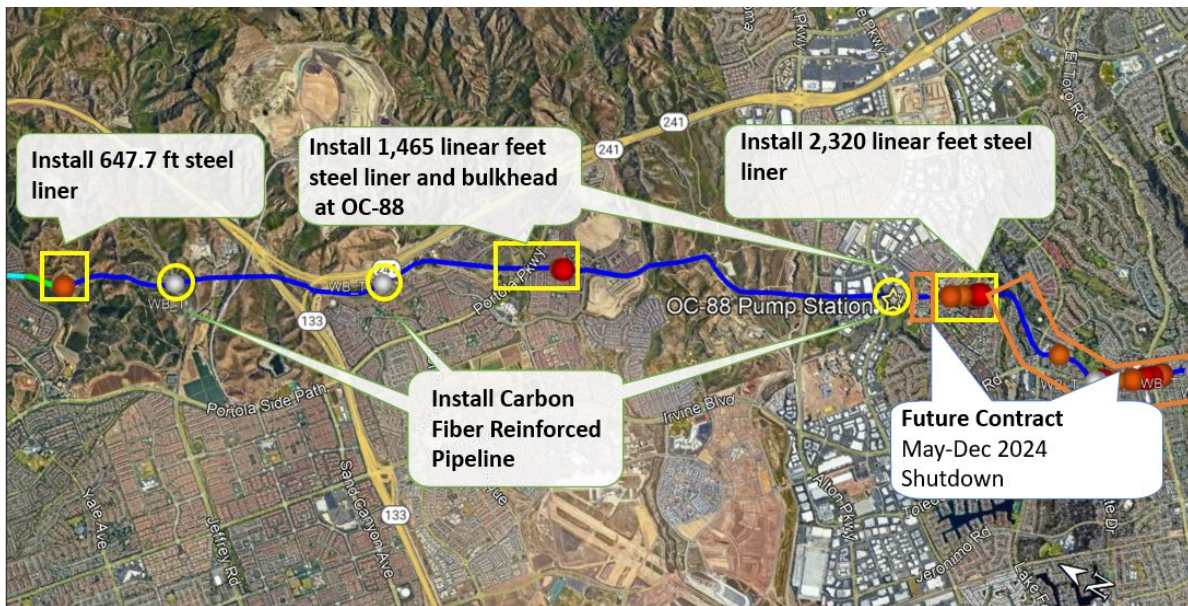
**Total Project Estimate:**  
\$21.6 million

**Total Project Cost to Date:**  
\$1.3 million

This project will rehabilitate approximately 4,700 linear feet of PCCP pipeline along the Allen-McColloch Pipeline (AMP), install a new 24-inch bypass line and pressure reducing valve at Station 1142, and install a new temporary bulkhead at Station 1146+32. In November 2023, 44 locations with an excessive number of wire breaks were identified along the AMP. For this pipeline, segments with 20 or more wire breaks are deemed to require urgent rehabilitation. PCCP Rehabilitation includes relining sections of the pipeline with steel liner and three 20-foot segment of carbon fiber reinforced polymer liner.

Phase	Final Design & Met Force Construction
% Complete for Construction	100%
Current Phase Authorized	March 2024
Completion Date of Current Phase	March 2024

Final design and Met Force construction of the bypass were completed. The board authorized three change orders to existing construction and procurement contracts to complete the remaining work. In the upcoming quarter, the pipeline will be shutdown and the remaining construction will be initiated and completed.



Overview of Allen-McColloch Pipeline PCCP Urgent Rehabilitation 2024 - Stage 1

## Regional Recycled Water Program

Actual Biennium Expenditures  
(Jul. 2022 through Mar. 2024)  
\$2.20 million

**Program Information:** The Regional Recycled Water Program includes the design and construction of the Advanced Water Treatment (AWT) Demonstration Plant, which represents the initial step in development of a potential regional recycled water system for recharge of groundwater basins within Southern California.

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### Program Highlights (3<sup>rd</sup> Quarter)

#### Accomplishments

- Advanced Water Treatment Demonstration Facility
  - Completed demo plant modifications and started tertiary membrane bioreactor (MBR) optimization testing
  - Continued updating record drawings to incorporate recent improvements
- Direct Potable Reuse Demonstration Facility
  - Completed preparation of the Direct Potable Reuse (DPR) draft bench-scale testing report
  - Initiated development of DPR pilot testing plan
  - Prepared a technical memorandum of research needs to address treated water augmentation requirements and presented the findings to the Independent Scientific Advisory Panel

#### Upcoming Activities

Upcoming work for the next quarter will include:

- Advanced Water Treatment Demonstration Facility
  - Continue tertiary MBR optimization testing to support the planning and design of a full-scale advanced purification facility
  - Complete updating record drawings to incorporate recent improvements
- Direct Potable Reuse Demonstration Facility
  - Finalize bench-scale test report
  - Continue to develop the DPR pilot test plan
  - Continue the site improvement planning effort to support DPR testing

## Right-Of-Way and Infrastructure Protection Program

Actual Biennium Expenditures  
(Jul. 2022 through Mar. 2024)  
\$1.76 million

**Program Information:** The Right of Way Infrastructure Protection Program (RWIPP) is comprised of projects to refurbish or upgrade above-ground facilities and right-of-way along Metropolitan’s pipelines to address access limitations, erosion-related issues, and security needs.

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### Program Highlights (3<sup>rd</sup> Quarter)

#### Accomplishments

- Los Angeles County Region – Stage 1
  - Continued final design

#### Upcoming Activities

Upcoming work for the next quarter will include:

- Western San Bernardino Region – Stage 2
  - Complete final design package
- Los Angeles County Region – Stage 1
  - Continue final design
- Riverside and San Diego County Region – Stage 1
  - Begin preliminary design
  - Continue final design for urgent rehabilitation of one site along San Diego Pipeline No. 4

## System Flexibility/Supply Reliability Program

Actual Biennium Expenditures  
(Jul. 2022 through Mar. 2024)  
\$64.59 million

**Program Information:** The System Flexibility/Supply Reliability Program is comprised of projects to increase the capacity and flexibility of Metropolitan’s water supply and delivery infrastructure to meet service demands. Projects under this program address climate change affecting water supply, regional drought, and alternative water sources for areas dependent on State Project Water.

### Program Highlights (3<sup>rd</sup> Quarter)

#### Accomplishments

- Badlands Tunnel Surge Protection Facility
  - Completed contractor mobilization
- Inland Feeder/Rialto Pipeline Intertie
  - Continued construction
- Inland Feeder/San Bernardino Valley Municipal Water District (SBVMWD) Foothill Pump Station Intertie
  - Awarded a valve procurement contract
  - Continued final design, right-of-way acquisition, CEQA, and permitting activities
  - Continued procurement of two 54-inch diameter butterfly valves
- Perris Valley Pipeline I-215 Tunnel Crossing
  - Completed excavation for three tunnel shafts
  - Began tunneling and completed the first tunnel segment
- Sepulveda Feeder Pump Stations
  - Continued Phase 1 design under a progressive design-build services agreement
- Wadsworth Pumping Plant Bypass Pipeline
  - Continued construction
- West Area Supply and Delivery Alternatives
  - Presented the Drought Mitigation Action portfolio to the Board

#### Upcoming Activities

Upcoming work for the next quarter will include:

- Continue progress on four individual projects to allow the delivery of water from Diamond Valley Lake to the Rialto Pipeline
  - Badlands Tunnel Surge Tank Facility: Continue construction
  - Inland Feeder/Rialto Pipeline Intertie: Continue construction
  - Inland Feeder/San Bernardino Valley Municipal Water District (SBVMWD) Foothill Pump Station Intertie: Continue CEQA document preparation, environmental permitting, and right-of-way acquisition; Continue valve procurement
  - Wadsworth Pumping Plant Bypass Pipeline: Continue construction
- Perris Valley Pipeline I-215 Tunnel Crossing
  - Continue construction
- Sepulveda Feeder Pump Stations
  - Continue Phase 1 progressive design-build



**Perris Valley Pipeline I-215 Tunnel Crossing**

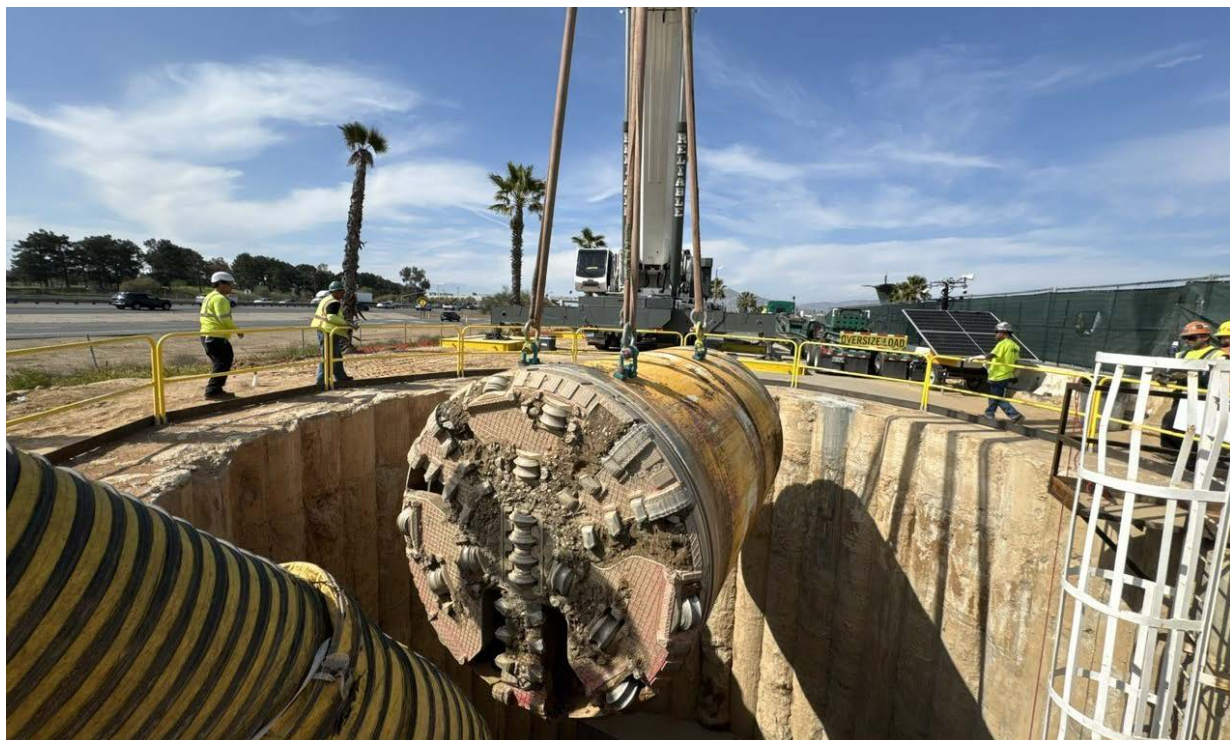
**Total Project Estimate:**  
\$79.3 million

**Total Project Cost to Date:**  
\$41.3 million

This project will connect northern and southern reaches of Perris Valley Pipeline by micro-tunneling and constructing approximately 3,000 linear feet of 97-inch diameter welded steel pipe. The project will also construct four access shafts, cathodic protection test stations, and geotechnical instrumentation and monitoring equipment.

Phase	Construction
% Complete for Construction	55%
Construction Contract Award Date	January 2023
Estimated Construction Completion Date	February 2025
Contract Number	1928

The contractor completed construction of three shafts, excavated approximately 900 linear feet of the tunnels, and began installing casing pipe. In the upcoming quarter, the contractor will complete construction of the remaining shaft, excavate approximately 1,500 linear feet of the tunnel, and continue installing the initial casing pipe.



Contractor using crane to lift micro tunnel boring machine head out of Shaft No. 4



## System Reliability Program

Actual Biennium Expenditures  
(Jul. 2022 through Mar. 2024)  
\$73.41 million

**Program Information:** The System Reliability Program is comprised of projects to improve or modify facilities located throughout Metropolitan’s service area to utilize new processes and/or technologies and improve facility safety and overall reliability. These include projects related to Metropolitan’s Supervisory Control and Data Acquisition (SCADA) system and other Information Technology projects.

### Program Highlights (3<sup>rd</sup> Quarter)

#### Accomplishments

- Applications-Servers Upgrade from Old Windows Operating System
  - Authorized purchase agreement to continue migration and upgrade older applications in batches
- Control System Upgrade – Phase 3
  - Completed functional testing
- Datacenter Backup Infrastructure Upgrade
  - Continued design and implementation
- Desert Microwave Site Tower Upgrades
  - Continued planning of hardware installation
  - Continued preparation of design packages
- Enterprise Data Analytics
  - Entered into negotiations with selected vendor
- Headquarters Building Fire Sprinkler Level P1 Replacement
  - Completed construction
- Headquarters Building Physical Security Improvements - Stage 3
  - Continued construction
- Headquarters Network Switch Replacement
  - Continued equipment installation
- Headquarters Video Room Upgrades
  - Continued construction
- Weymouth Area Paving
  - Awarded a construction contract

#### Upcoming Activities

Upcoming work for the next quarter will include:

- Applications-Servers Upgrade from Old Windows Operating System
  - Complete negotiations and begin solution design.
- Control System Upgrade – Phase 3
  - Present pilot results
- Desert Microwave Site Tower Upgrades
  - Advertise hardware installation bid package
- Headquarters Building Physical Security Improvements - Stage 3
  - Continue construction

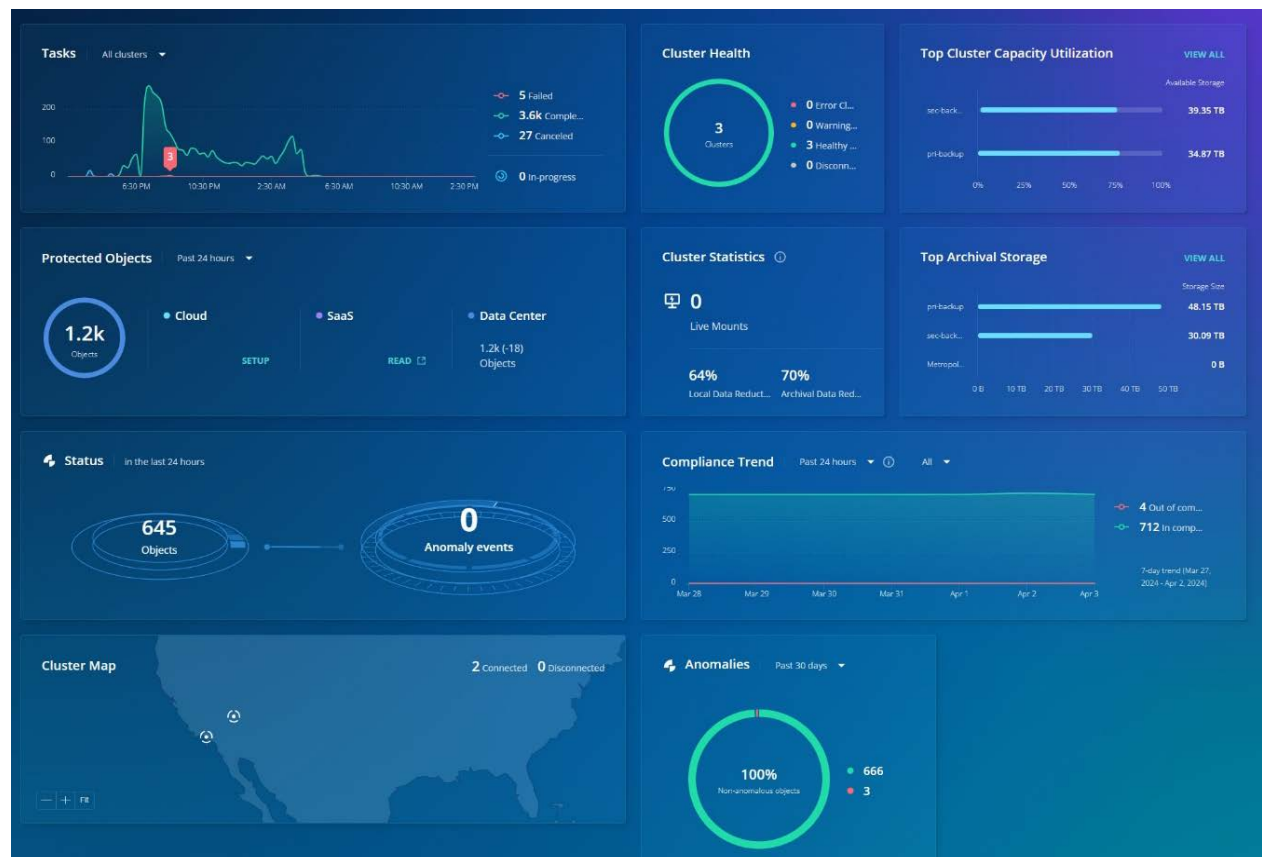
- Headquarters Fire Alarm & Smoke Control Upgrades
  - Obtain final sign-off by fire department and building department of new fire alarm and smoke control system upgrades
- Headquarters Network Switch Replacement
  - Continue equipment installation
- Headquarters Video Room Upgrades
  - Continue construction
- Security Operations Center MWD Cyber Security Upgrade – Stage 1
  - Continue software configuration
- Weymouth Area Paving
  - Begin construction

<b>Data Center Backup Infrastructure Upgrade</b>	<b>Total Project Estimate:</b> \$1.6 million
	<b>Total Project Cost to Date:</b> \$0.5 million

This project will replace the existing IT data centers backup system and related infrastructure with a new system called Rubrik.

Phase	IT Design/Deployment
% Complete for Current Phase	50%
Current Phase Authorized	February 2022
Estimated Completion Date of Current Phase	March 2025

Approximately 50% of the backup work has been initiated and configured and a request for quotes was published to procure additional storage. In the upcoming quarter, procurement of additional software storage will occur.



Main Rubrik Dashboard

## Treatment Plant Reliability Program

Actual Biennium Expenditures  
(Jul. 2022 through Mar. 2024)  
\$98.16 million

**Program Information:** The Treatment Plant Reliability Program is comprised of projects to replace or refurbish facilities and components of Metropolitan's five water treatment plants to continue to reliably meet treated water demands.

### Program Highlights (3<sup>rd</sup> Quarter)

#### Accomplishments

- Awarded a construction contract for the following project:
  - Weymouth Hazardous Waste Staging and Containment
- Continued construction for the following projects:
  - Jensen Ozone PSU Replacement – Stage 1
  - Mills Electrical Upgrades – Stage 2
  - Weymouth Basins Nos. 5-8 & Filter Building No. 2 Rehabilitation
- Continued equipment procurement for the following project:
  - Diemer Power and Distribution Panel Upgrade
- Continued final design for the following project:
  - Weymouth Administration Building Upgrades
- Began final design for the following project:
  - Diemer Filter Rehabilitation
- Continued preliminary design of the following projects:
  - Diemer Washwater Reclamation Plant Improvements & Slope Stabilization
  - Jensen Finished Water Reservoir Rehabilitation
  - Jensen Reservoir Bypass Gate Replacement
  - Jensen Solids Mechanical Dewatering Facility
  - La Verne Water Quality Laboratory Building Upgrades
  - Mills Finished Water Reservoir Rehabilitation
  - Mills Perimeter Security & Erosion Control Improvements
- Began preliminary design for the following projects:
  - Jensen Modules Nos. 2 & 3 Solids Removal System Rehabilitation
  - Mills Basin Solids Removal System Rehabilitation

#### Upcoming Activities

Upcoming work for the next quarter will include:

- Complete construction and startup/testing of the following project:
  - Jensen Ozone PSU Replacement – Stage 1
- Continue construction of the following projects:
  - Mills Electrical Upgrades – Stage 2
  - Weymouth Basins Nos. 5-8 & Filter Building No. 2 Rehabilitation
- Continue equipment procurement for the following project:
  - Diemer Power and Distribution Panel Upgrade

- Continue final design for the following projects:
  - Weymouth Administration Building Upgrades
  - Diemer Filter Rehabilitation
- Continue preliminary design of the following projects:
  - Diemer Washwater Reclamation Plant Improvements & Slope Stabilization
  - Jensen Finished Water Reservoir Rehabilitation
  - Jensen Reservoir Bypass Gate Replacement
  - Jensen Solids Mechanical Dewatering Facility
  - La Verne Water Quality Laboratory Building Upgrades
  - Mills Finished Water Reservoir Rehabilitation
  - Mills Perimeter Security & Erosion Control Improvements

**Weymouth Basins Nos. 5-8 and Filter Building No.2 Rehabilitation**

**Total Project Estimate:**  
\$117.0 million

**Total Project Cost to Date:**  
\$74.2 million

This project will rehabilitate and replace the Weymouth Water Treatment Plant’s Basins 5-8 major mechanical equipment, structural components, and auxiliary systems, along with seismic upgrades to the Basins Nos. 1-8 inlet channels and needed improvements, including replacement of basin inlet gates for Basins 1-8.

Phase	Construction
% Complete for Construction	60%
Construction Contract Award Date	May 2022
Estimated Construction Completion Date	July 2025
Contract Number	1982

The contractor completed activities for the first quarter plant shutdown including startup testing of mechanical and electrical equipment. The Contractor also completed seismic upgrades and hazardous material abatement within Basins Nos. 7 and 8 and valve installations in Filter Building No. 2. In the upcoming quarter, the contractor will begin activities planned for the second quarter plant shutdown including mechanical equipment installation in the flocculation and sedimentation basins, Filter Building No. 2, and seismic improvements for the basin and inlet channel walls.



New stainless-steel launders in Basin No. 8



## Water Quality Program

Actual Biennium Expenditures  
(Jul. 2022 through Mar. 2024)  
\$0.00 million

**Program Information:** The Water Quality Program is comprised of projects to add new facilities to ensure compliance with water quality regulations for treated water, located at Metropolitan's treatment plants and throughout the distribution system.

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### Program Highlights (3<sup>rd</sup> Quarter)

#### Accomplishments

- Mills Enhanced Bromate Control Facilities
  - Continued final design

#### Upcoming Activities

Upcoming work for the next quarter will include:

- Mills Enhanced Bromate Control Facilities
  - Continue final design

## Minor Capital Projects Program

The Minor Capital Projects (Minor Cap) Program is authorized biennially to enable staff to expedite small capital projects. At the commencement of each biennium, the Board had appropriated the entire two-year budget for the program. For the current and the last biennia, the minor cap budget was included in the CIP appropriation. To be considered for inclusion in the Minor Cap Program, a project must have a planned budget of less than \$400,000. The \$400,000 project budget cap was first established by the June 2018 board action Item 8-3 and the same cap is applied for the new minor caps that are approved for the current biennium. Prior to that action, the budget cap for minor cap projects was \$250,000.

The duration of minor capital projects typically ranges from a few months to three years. Since many of these projects require rapid response to address unanticipated failures, safety, or regulatory compliance concerns, or to take advantage of shutdown opportunities, the Minor Cap Program authorizes the General Manager to execute projects that meet defined criteria without seeking additional board approval.

For the past two biennia, the two-year budgets for the Minor Cap Program have been \$15.5 million and \$20 million, respectively. In April 2022, the Board appropriated funds for the projects identified in the CIP appendix for the current biennium, FYs 2022/23–2023/24, including the Minor Cap Program. A total of \$15 million has been allocated for the current biennium to date.

### Minor Cap Program Historical Summary

The following table provides the overall status of the three active Minor Cap appropriations for the fiscal years 2018/19–2019/20 through fiscal years 2022/23–2023/24.

Table 4: Minor Capital Projects Program

	Fiscal Year			Totals*
	2018/19– 2019/20	2020/21– 2021/22	2022/23– 2023/24	
Amount Appropriated	\$15.5M	\$20M	\$15M	\$50.5M
Expenditures (through March 2024)	\$12.4M	\$9.4M	\$4.5M	\$26.4M
Number of Projects Approved	48	51	48	147
Number of Projects Completed (through March 2024)	44	16	0	60
Number of Projects with Durations of Over 3 Years	4	8	0	12

\* Numbers may not sum due to rounding.

Through March 2024, 60 of the 147 projects approved under the appropriations mentioned above have been completed, and 12 active projects have exceeded three years in duration, as described below.

- Central Basin CENB-48 Service Connection Access Improvement was impacted by ongoing supply chain delays. Construction has been completed. Additional time is required to pay vendor invoices and complete project closure documents. The project is scheduled to be completed by April 2024.
- CRA Housing Fencing Improvements experienced delays due to delivery of materials. Construction has since been completed. Additional time is required to pay vendor invoices and complete project closure documents. The project is scheduled to be completed by April 2024.
- Dominguez Channel Pressure Release Structure Rehabilitation has been experiencing delays due to longer than anticipated lead time for valve manufacturing and delivery. The project is scheduled to be completed by December 2024.
- Eagle Mountain CRA Employee Housing experienced delays due to delivery of materials. Construction has since been completed. Additional time is required to pay vendor invoices and complete project closure documents. The project is scheduled to be completed by April 2024.
- East Valley Feeder Vaults Upgrades has been experiencing delays due to additional time required to acquire permits from an external agency. The project is scheduled to be completed by December 2024.
- Gene Inlet Surge Chamber Access Improvement has experienced delays due to re-scheduling of the installation of a recently fabricated hatch cover, which can only occur when Gene Wash Reservoir water level is lowered. Metropolitan forces plan to complete the installation during the 2026 CRA shutdown. The project is now scheduled to be completed by April 2026.
- Pasadena Water and Power Site Microwave Tower Replacement experienced delays due to longer than anticipated time for review and approval of lease agreement between City of Pasadena and Metropolitan. The project is scheduled to be completed by January 2025.
- Rialto Feeder Valve Replacement experienced related to equipment procurement. Construction and testing are complete. Additional time is required to pay vendor invoices and complete project closure documents. The project is scheduled to be completed by April 2024.
- Sepulveda Feeder Stray Current Drain Station Installation & Rehabilitation has experienced delays due to longer than anticipated time for review/approval of permit applications by the City of Los Angeles and Los Angeles Department of Transportation. The project is scheduled to be completed by October 2024.
- Service Connection CB-01 Valve Replacement has experienced delays due to longer than anticipated time for procurement of a fiberglass reinforced plastic platform. The project is scheduled to be completed by October 2024.
- Venice Pressure Control Structure Security Upgrades has experienced delays due to longer than anticipated time for procurement of automatic entrance gates. Delivery of gates is underway. The project is scheduled to be completed by October 2024.
- Weymouth Middle Feeder Chlorination Structure Rehabilitation has experienced delays due to longer than anticipated time for delivery of materials and re-scheduling of the equipment installation. Construction is complete. Additional time is required to pay vendor invoices and complete project closure documents. The project is scheduled to be completed by April 2024.

## Minor Cap Projects, 3<sup>rd</sup> Quarter

### Authorized Projects

Ten projects were authorized under the Minor Cap Program during the 3<sup>rd</sup> Quarter of fiscal year 2023/24 (January through March 2024). The total amount authorized for these projects was \$2,461,000.

- Diamond Valley Lake (DVL) Sump Pump Level System PLC Replacement – This project will replace three obsolete programmable logic controller (PLC) units at the DVL Pump Plant to enhance plant reliability. The project budget is \$180,000.
- Diemer Sodium Hypochlorite Storage Tank Replacement – This project will replace Sodium Hypochlorite Storage Tank No. 82 at the Diemer plant and refurbish or replace components of associated support infrastructure including instrumentation, piping, structural and mechanical to enhance water treatment reliability. The project budget is \$299,000.
- Fleet Management Portal Implementation – This project will provide a centralized self-service customer facing request system for employees to create their own fleet related requests and track approval status. The project budget is \$260,000.
- Jensen Fluorosilicic Acid Storage Tank Replacement – This project will replace the two fluorosilicic acid storage tanks at the Jensen plant and related support infrastructure to enhance water treatment reliability. The project budget is \$352,000.
- Mills Filtration System Monitoring Instrumentation Replacement – This project will replace obsolete filtration system monitoring instrumentation to enhance water treatment operation and reliability at the Mills plant. The new system includes pressure loss transmitters, level transmitters, and flowmeters for the filter beds. The project budget is \$350,000.
- Skinner Caustic Soda Transfer Pipe Replacement – This project will replace caustic soda transfer pipe at the Skinner plant, which has exceeded its service life, with new pipe made of different materials for a longer service. The project also includes the replacement of associated hardware for the chemical transfer system to enhance safety and plant reliability. The project budget is \$110,000.
- Skinner Electrical Panelboard Replacement – This project will replace obsolete electrical panelboards located within the basement of administration building and the Service Building No. 1 at the Skinner plant to enhance the plant reliability. The project budget is \$150,000.
- Skinner Ozone Analyzers Replacement – This project will replace deteriorated ozone analyzers and support equipment in Skinner plant's ozone contactor building to maintain the plant ozonation reliability. The project budget is \$130,000.
- Verizon SCADA Network Upgrade – This project will replace obsolete telecommunication system infrastructure at 18 sites serviced by Verizon with fiber optic systems to enhance the system reliability that supports SCADA communication services. The project budget is \$340,000
- Whitewater Storm Monitoring System Installation – This project will install a monitoring camera system at Whitewater River crossing to monitor the conditions of the river and CRA siphons during and after storm events for damage to allow for timely repairs. The project budget is \$290,000.

### Completed Projects

Five projects were completed under the Minor Cap Program during the 3<sup>rd</sup> Quarter of fiscal year 2023/24 (January through March 2024):

- CRA SCADA Network Switch Replacement
- F-01 Service Connection Check Valve Replacement
- Garvey Reservoir Sodium Hypochlorite Tank Replacement
- Lake Mathews Lighting Improvements
- OC-89 and OC-90 Service Connection Flow Meter Replacement

### Canceled Projects

Three projects were canceled during the 3rd Quarter of fiscal year 2023/24 (January through March 2024):

- Diemer Helicopter Hydrant Facility was originally initiated in FYs 2022/23 and 2023/24 minor cap appropriation. The project was canceled and is now being addressed by a major capital project Diemer Helicopter Hydrant Facility.
- San Fernando Road Rail Crossing Rehabilitation was originally initiated in FYs 2020/21 and 2021/22 minor cap appropriation. The project was canceled and is now being addressed by a major capital project San Fernando Road Rail Crossing Rehabilitation.
- Water Quality Laboratory Walk-In Refrigerator Replacement was originally initiated in FYs 2022/23 and 2023/24 minor cap appropriation. The project was canceled after a further evaluation deemed the project was no longer needed as the walk-in refrigerator could be repaired.

### Expenditures

Actual biennium expenditures to date (July 2022 through March 2024) for the Minor Capital Projects Program were \$8.28 million.

## Project Actions

Table 5 lists capital project actions authorized by the General Manager along with funding allocation amounts during the 3<sup>rd</sup> Quarter of FY 2023/24, through the authority delegated by the Board in April 2022. The total funding amount authorized during the 3<sup>rd</sup> Quarter is \$94,849,000 through thirty management actions. In some case listed below, the Total Amount Authorized may differ from the Amount Authorized for Current Biennium when the work authorized is scheduled to extend beyond the current biennium. In these cases, it is anticipated that staff will request sufficient funds to be allocated from the CIP Appropriation for the next biennium to cover the planned remaining future-year costs of the project. When the Amount Authorized for Current Biennium is equal to the Total Amount Authorized, the authorized work is planned to be completed within the current biennium. Table 5 excludes any board items heard in closed session and minor cap authorizations. Minor cap authorizations can be found in the Minor Capital Projects Program section of this report.

Table 5: Capital Projects Funded in 3<sup>rd</sup> Quarter

Project Authorized	Activity Authorized	Amount Authorized for Current Biennium	Total Amount Authorized
Allen-McColloch Pipeline PCCP Urgent Rehabilitation of 2024 – Stage 1	Final Design and Met Force Construction of Bypass & Pressure Reducing Valve	\$1,000,000	\$2,186,000
Allen-McColloch Pipeline PCCP Urgent Rehabilitation of 2024 – Stage 2	Final Design	\$1,000,000	\$1,541,000
B-01 Venturi Flowmeter Replacement	Site Investigation, Preliminary Design, and Final Design	\$300,000	\$709,000
Badlands Tunnel Surge Protection Facility	Construction	\$1,650,000	\$23,800,000
CRA Domestic Water System Treatment <sup>1</sup>	Additional Construction	\$1,000,000	\$4,800,000
CRA - Iron Mountain Tunnel Rehabilitation <sup>2</sup>	Additional Investigations & Preliminary Design	\$442,800	\$742,800
CRA - Iron Mountain Tunnel Monitoring System Replacement	Replacement of Tunnel Monitoring Equipment	\$122,200	\$122,200
CUF Dechlorination System Upgrade - Phase 1	Construction	\$1,056,000	\$1,306,000
Desert Fiber Installation at Iron Mtn., Eagle Mtn., and Hinds Pumping Plants <sup>3</sup>	Additional Study	\$250,000	\$300,000

<sup>1</sup> Contractor has incurred additional costs from the owner's directed request to procure and replace the SCADA system, which were to be performed by Metropolitan forces, and an increase in change order authority was authorized per January 2024 board action.

<sup>2</sup> Additional investigations and preliminary design funds were required for a design recommendation from the value engineering workshop which involves geotechnical investigations and preliminary design of a plate spanning over the crack and contact grouting behind the liner.

<sup>3</sup> Additional funds were required to conduct Tower Mapping study to determine the best route to run fiber cables utilizing Metropolitan's 230kv power transmission line infrastructure for network connectivity.



Project Authorized	Activity Authorized	Amount Authorized for Current Biennium	Total Amount Authorized
Diamond Valley Lake Floating Wave Attenuator System Improvements - Stage 2	Construction	\$350,000	\$9,875,000
Diamond Valley Lake Secondary Inlet Sleeve Valve Refurbishment	Design and Construction	\$1,000,000	\$2,785,000
Diemer METCON	Site Investigations and As-Built Drawing Update	\$120,000	\$120,000
Eastern Region Security Camera System Upgrade - Area 1	Final Design	\$250,000	\$1,605,667
Eastern Region Security Camera System Upgrade - Area 2	Final Design	\$200,000	\$1,121,271
Inland Feeder Rialto Pipeline Intertie	Construction	\$3,050,000	\$20,000,000
Inland Feeder/SBVMWD Foothill Pump Station Intertie – Stage 2	Procurement: Two 54-inch Butterfly Valves	\$1,500,000	\$3,280,000
Jensen Modules 2 and 3 Basin Solids Removal System Rehabilitation <sup>4</sup>	Additional Enhanced Preliminary Design	\$375,000	\$1,150,000
Jensen San Fernando Road Rail Crossing Rehabilitation	Study	\$45,000	\$50,000
Mills Basins Solids Removal System Rehabilitation <sup>5</sup>	Additional Preliminary Design	\$375,000	\$1,150,000
MWD Intramet Redesign	Define and Design	\$300,000	\$300,000
Palos Verdes Reservoir Site Drainage Improvements <sup>6</sup>	Additional Study	\$225,000	\$235,000
Sepulveda Hydroelectric Plant Rehabilitation	Construction	\$450,000	\$5,470,000
Services Procurement Implementation	Design, Development, and Deployment	\$300,000	\$1,420,000

<sup>4</sup> Additional preliminary design funds were required to enhance the solids removal efficiency at the Jensen plant and address misalignment of the traveling bridges.

<sup>5</sup> Additional preliminary design funds were required to enhance the solids removal efficiency at the Mills plant and upgrade the control equipment for the traveling bridges.

<sup>6</sup> Additional study funds were required to develop a new conceptual plan for site drainage and disposal system improvements as a result of the recent site investigation findings.

Project Authorized	Activity Authorized	Amount Authorized for Current Biennium	Total Amount Authorized
Upper Feeder Blowoff Valves Replacement - Stage 1	Preliminary Design and Procurement and Installation of Isolation Valve	\$1,000,000	\$2,322,000
Western Region Security Camera Upgrade - Area 2	Final Design	\$150,000	\$1,135,347
Western Region Security Camera Upgrade - Area 4	Final Design	\$250,000	\$933,381
Western Region Security Camera Upgrade - Area 6	Final Design	\$250,000	\$1,342,667
Western Region Security Camera Upgrade - Area 8	Final Design	\$250,000	\$1,411,667
Weymouth Hazardous Waste Staging and Containment	Construction	\$450,000	\$3,400,000
Yorba Linda Power Plant Emergency and Control System Improvements	Preliminary Design	\$135,000	\$235,000
<b>Total</b>		<b>\$17,846,000</b>	<b>\$94,849,000</b>

Due to changes to the project implementation schedules or completion of projects under budget, \$17,946,100 was reallocated back to the CIP Appropriation (Appropriation No. 15525) from the previously authorized projects and \$1,000,000 of CIP Appropriation funds was allocated to a previously authorized project listed in Table 6 below. The reallocated funds were used to fund the projects listed in Table 5 and will be used to support the upcoming projects in the current biennium.

Table 6: General Manager Actions to Reallocate Capital Project Funds

Project Authorized (Title)	Amount Authorized for Reallocation to CIP Appropriation
CRA Domestic Water System Treatment	(\$11,000,000)
Garvey Reservoir Rehabilitation	(\$6,000,000)
San Gabriel Tower Seismic Upgrade	\$1,000,000
Water Delivery System Improvements Remaining Budget	(\$946,100)
<b>Total:</b>	<b>(\$16,946,100)</b>

## CEQA Determinations

Consistent with CEQA, the Board delegated this authority to the General Manager in April 2022. Adoption of Negative Declarations and Mitigated Negative Declarations, and certification of Environmental Impact Reports will continue to require action by Metropolitan's Board. Other than those capital projects that were presented to the Board, no CEQA exemption determinations were made by the General Manager during the 3rd Quarter. This excludes information on board items heard in closed session.

## Construction and Procurement Contracts

The table below summarizes the status of all construction and procurement contracts that were awarded by the Board and active during the reporting quarter. These contracts are listed in Table 10 and Table 11. Total contract earnings for the 3<sup>rd</sup> Quarter were approximately \$73.48 million.

Table 7: 3<sup>rd</sup> Quarter Contract Actions

Contract Actions during Q3 for FY 2023/2024, January 2024 through March 2024	
Contracts Awarded by Board	3 construction contracts totaling \$11.97 million (Table 9) 4 procurement contracts totaling \$3.77 million (Table 9)
Total Payments Authorized	\$73.48 million
Construction Contracts Completed	Notice of Completion was filed for 3 construction contracts (Table 8)
Procurement Contracts Delivery Completed	Delivery of all items completed for 2 procurement contracts <sup>7</sup>
Active Contracts at end of Q3 <sup>8</sup>	34 construction contracts, totaling \$461.76 million (Table 10) 21 procurement contracts, totaling \$75.84 million (Table 11) \$537.60 million total value*

\*Numbers may not sum due to rounding.

The figures on the next two pages show the locations of the thirty-four construction contracts that were active through the end of the 3<sup>rd</sup> Quarter.

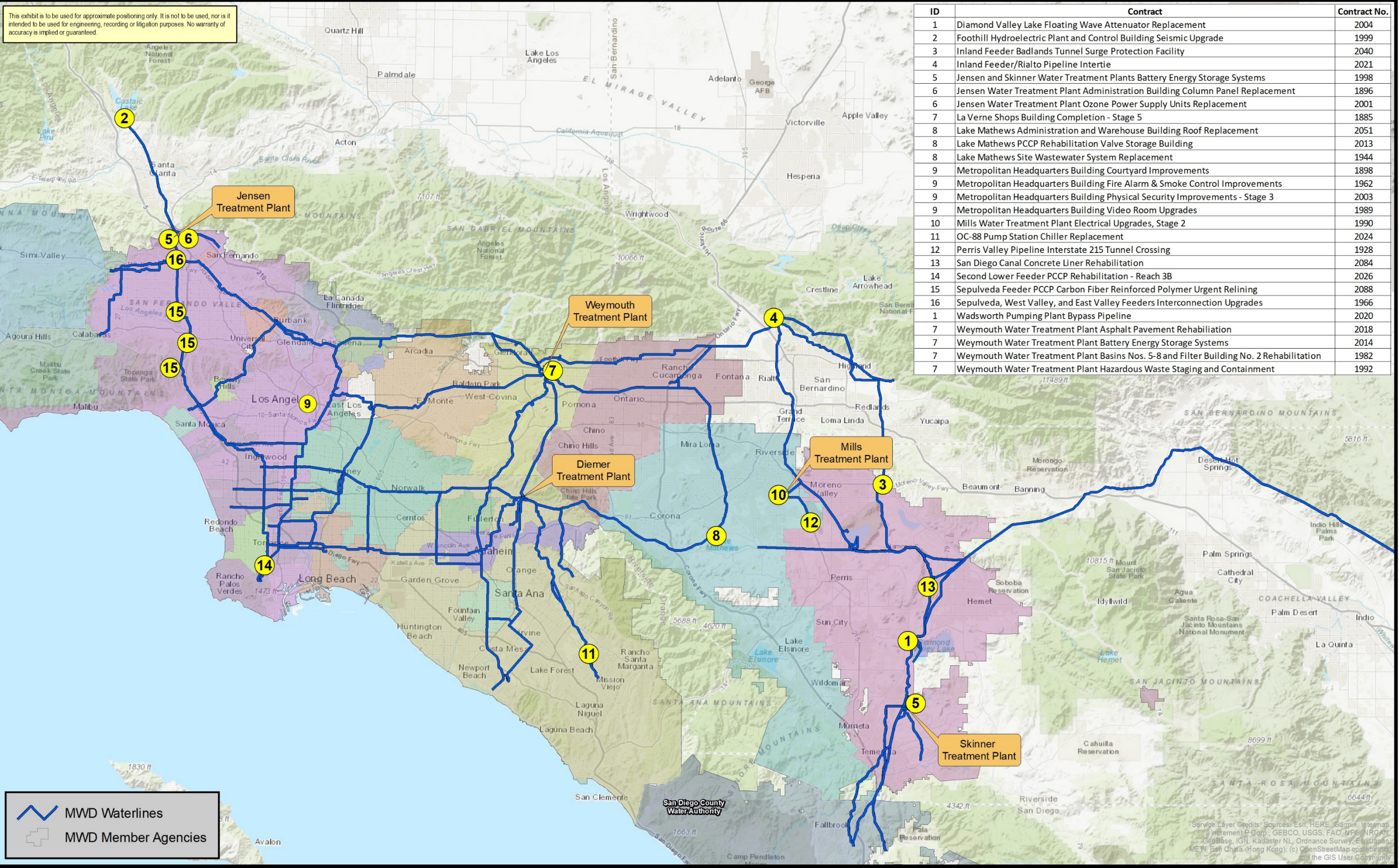
<sup>7</sup> Contract 1969 for Furnishing Inlet Valve Gearboxes for Skinner Module 7 and Purchase Order 217257 for Furnishing 50 Magnetic Flowmeters for Metropolitan’s Delta Island Properties were completed during the reporting quarter.

<sup>8</sup> Active contracts at the end of the 3<sup>rd</sup> Quarter are those that are ongoing at the end of March 2024 and have not filed Notice of Completion with the county where the work was performed.



This exhibit is to be used for approximate positioning only. It is not to be used, nor is it intended to be used, for engineering, recording or litigation purposes. No warranty of accuracy is implied or guaranteed.

Prepared by: Tom Bleicher (Geodetics & Mapping Team) | Checked by: Jeffrey Nikolas | Job#: GIS24.04-17  
 Photographed by: Bing | Printed: 5/15/2024 | Project: B-Size.mxd



ID	Contract	Contract No.
1	Diamond Valley Lake Floating Wave Attenuator Replacement	2004
2	Foothill Hydroelectric Plant and Control Building Seismic Upgrade	1999
3	Inland Feeder Badlands Tunnel Surge Protection Facility	2040
4	Inland Feeder/Rialto Pipeline Intertie	2021
5	Jensen and Skinner Water Treatment Plants Battery Energy Storage Systems	1998
6	Jensen Water Treatment Plant Administration Building Column Panel Replacement	1896
6	Jensen Water Treatment Plant Ozone Power Supply Units Replacement	2001
7	La Verne Shops Building Completion - Stage 5	1885
8	Lake Mathews Administration and Warehouse Building Roof Replacement	2051
8	Lake Mathews PCCP Rehabilitation Valve Storage Building	2013
8	Lake Mathews Site Wastewater System Replacement	1944
9	Metropolitan Headquarters Building Courtyard Improvements	1898
9	Metropolitan Headquarters Building Fire Alarm & Smoke Control Improvements	1962
9	Metropolitan Headquarters Building Physical Security Improvements - Stage 3	2003
9	Metropolitan Headquarters Building Video Room Upgrades	1989
10	Mills Water Treatment Plant Electrical Upgrades, Stage 2	1990
11	OC-88 Pump Station Chiller Replacement	2024
12	Perris Valley Pipeline Interstate 215 Tunnel Crossing	1928
13	San Diego Canal Concrete Liner Rehabilitation	2084
14	Second Lower Feeder PCCP Rehabilitation - Reach 3B	2026
15	Sepulveda Feeder PCCP Carbon Fiber Reinforced Polymer Urgent Relining	2088
16	Sepulveda, West Valley, and East Valley Feeders Interconnection Upgrades	1966
1	Wadsworth Pumping Plant Bypass Pipeline	2020
7	Weymouth Water Treatment Plant Asphalt Pavement Rehabilitation	2018
7	Weymouth Water Treatment Plant Battery Energy Storage Systems	2014
7	Weymouth Water Treatment Plant Basins Nos. 5-8 and Filter Building No. 2 Rehabilitation	1982
7	Weymouth Water Treatment Plant Hazardous Waste Staging and Containment	1992



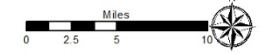
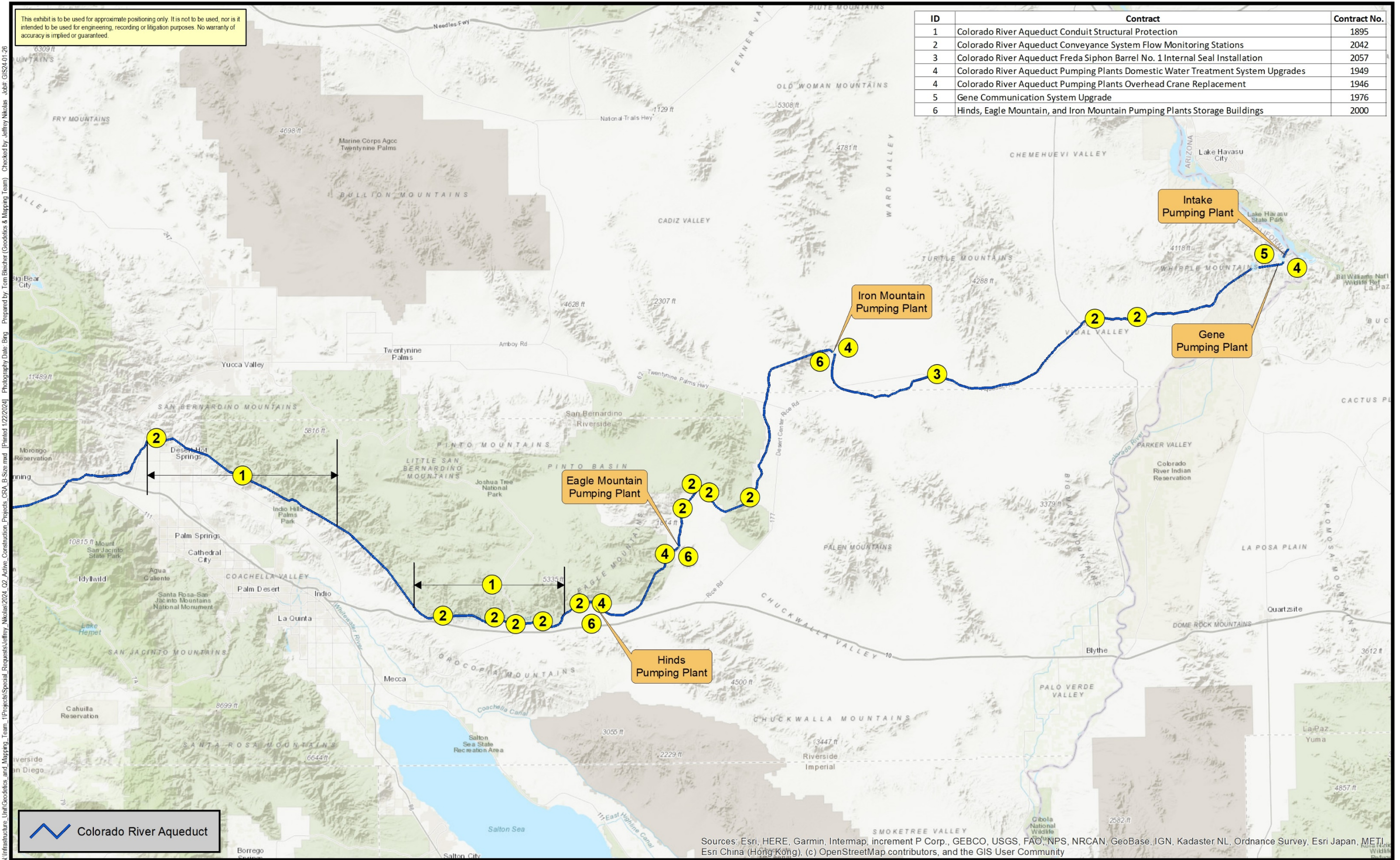
 MWD Waterlines  
 MWD Member Agencies

Figure 5: Construction Contracts – Greater Los Angeles Region







Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Figure 6: Construction Contracts – Colorado River Aqueduct



Metropolitan’s Administrative Code authorizes the General Manager to execute change orders on construction contracts in an aggregate amount not to exceed five percent of the original amount of the contract or \$250,000, whichever is greater. If changes occur on a construction contract that will exceed this total, additional authorization from the Board is required. In addition, the General Manager is authorized to execute change orders on procurement contracts in an amount not to exceed \$250,000.

In the 3<sup>rd</sup> Quarter, the Board authorized an increase of \$4,800,000 in change order authority for construction Contract No. 1949 to upgrade the domestic water treatment systems at the five Colorado River Aqueduct pumping plants. The increase in change authority will address the procurement, programming, and installation of nine programmable logic controllers (PLCs) to facilitate communication between the domestic water treatment systems and Metropolitan’s Supervisory Control and Data Acquisition (SCADA) system.

In the 3<sup>rd</sup> Quarter, the Board also authorized an increase in change order authority for three contracts to conduct urgent rehabilitation of prestressed concrete cylinder pipe on the Allen-McColloch Pipeline: (1) a \$12 million increase for Contract No. 2002 with Northwest Pipe Company, (2) a \$10.5 million increase for Contract No. 2026 with J.F. Shea Construction, Inc., and (3) a \$2 million increase for Contract No. 2088 with Structural Preservation Systems.

**Notices of Completion during 3<sup>rd</sup> Quarter:**

The following table shows the three board-awarded construction contracts for which Metropolitan accepted the contract as completed during the 3<sup>rd</sup> Quarter of FY 2023/24 and filed a Notice of Completion (NOC) with the county where the work was performed. In accordance with Section 9204 of the Civil Code of the State of California, an NOC is filed within 15 days of acceptance by Metropolitan of completion of construction by the contractor.

**Table 8: Notices of Completion Filed This Quarter**

Contract No.	Construction Contract	Notice of Completion	Original Bid Amount	Final Contract Costs	Change Order	Change Order %
1894	Mills Plant Maintenance Building Roof Replacement	1/17/2024	\$287,824	\$456,979	\$169,155	58.8%
1961	Orange County Feeder Relining – Reach 3	2/8/2024	\$17,226,250	\$17,184,775	-\$41,475	-0.24%
2007	Metropolitan Headquarters Building Level P1 Fire Protection Piping Replacement	2/6/2024	\$3,740,792	\$3,740,792	\$0	0.0%
<b>Totals:</b>			<b>\$21,254,866</b>			

For the 3<sup>rd</sup> Quarter, the total bid amount of the completed construction contract was approximately \$21.3 million.

For Contract No. 1894 listed above, change orders were issued to abate asbestos-containing materials that were discovered during the roof demolition stage and to restore the building interior that was damaged due to rainwater intrusion caused by heavier than anticipated rain. Also included was an owner-directed extra work to replace the cracked roof drain system.

The final contract costs can differ from the original bid amount due to change orders and actual costs incurred on unit price or other various bid items. The rolling average of change orders on completed construction contracts during the preceding 12-month period (April 2023 through March 2024) is 0.12 percent<sup>9</sup>.

<sup>9</sup> Original amount of construction contracts completed (Apr. 2023 through Mar. 2024) = \$ 73,210,600  
 Change orders for completed construction contracts (Apr. 2023 through Mar. 2024) = \$ 88,629  
 Change order percentage (Apr. 2023 through Mar. 2024) = 0.12%

Note that this rolling average of change orders excludes Contract 1908-CRA Pumping Plants – Sump Rehabilitation since this contract had a significant owner-directed deductive change orders (49%) that would skew the 12-month rolling average.

**Contracts Awarded by the Board during 3<sup>rd</sup> Quarter:**

During the period of January through March 2024, three construction contracts totaling \$11,972,556 and four procurement contracts totaling \$3,765,819.04 were awarded by the Board.

**Table 9: Construction and Procurement Contracts Awarded This Quarter**

<b>Construction Contracts</b>	
<b>DVL Floating Wave Attenuator Replacement</b>	
Contract Number	2004
Contractor	Power Engineering Construction Co.
Amount	\$7,842,856
<b>Weymouth Water Treatment Plant Hazardous Waste Staging and Containment</b>	
Contract Number	1992
Contractor	J.F. Shea Construction, Inc.
Amount	\$2,375,700
<b>Weymouth Water Treatment Plant Asphalt Pavement Rehabilitation</b>	
Contract Number	2018
Contractor	Granite Construction Company
Amount	\$1,754,000
<b>Procurement Contracts</b>	
<b>Furnishing Slide Gates for East Lake Skinner Bypass Channel</b>	
Contract Number	2029
Contractor	Whipps, Inc.
Amount	\$892,552
<b>Furnishing a Brushless Motor Exciter System for Gene Pumping Plant Unit No. 1</b>	
Contract Number	2056
Contractor	WEG Electric Corp.
Amount	\$544,501
<b>Furnishing a 132-inch Butterfly Valve for the Foothill Pump Station Intertie</b>	
Contract Number	2096
Contractor	Vogt Valves, Inc.
Amount	\$1,779,174
<b>Furnishing Plug Valves for the Foothill Feeder and Rialto Pipeline</b>	
Purchase Order Number	219516
Contractor	Caasi Flow Control
Amount	\$549,592.04

The table on this page lists the 34 ongoing construction contracts through the end of the 3<sup>rd</sup> Quarter. This list contains construction contracts awarded by the Board.

**Table 10: Active Construction Contracts at the End of 3<sup>rd</sup> Quarter**

---

	Cont. No.	Contract Title	Contractor	Contract Amount <sup>10</sup>	Earnings Through March 2024 <sup>11</sup>	Start Date	Est. Completion Date	Est. Percent Complete
1	1885	La Verne Shops Building Completion – Stage 5	Woodcliff Corporation, Inc.	\$19,329,827	\$17,389,847	6/10/22	10/24	90%
2	1895	Colorado River Aqueduct Conduit Structural Protection	Granite Construction Company	\$8,656,568	\$6,748,885	5/11/23	2/25	78%
3	1896	Jensen Admin. Bldg. Entrance Glass Fiber Reinforced Concrete Panels Replacement <sup>12</sup>	MMJ Contracting, Inc.	\$281,900	\$105,898	7/14/23	8/24	38%
4	1898	Metropolitan Headquarters Courtyard Improvements	Access General Contracting	\$250,974	\$0	1/25/24	7/24	0%
5	1928	Perris Valley Pipeline Interstate 215 Tunnel Crossing	James W. Fowler, Company	\$59,489,720	\$32,559,213	2/13/23	2/25	55%
6	1944	Lake Mathews Reservoir Wastewater System Replacement	Creative Home dba CHI Construction	\$4,010,000	\$3,984,133	12/13/21	4/24	99%
7	1946	Colorado River Aqueduct Pumping Plants - Overhead Crane Replacement	J.F. Shea Construction, Inc.	\$14,386,714	\$12,449,540	10/14/20	6/24	87%
8	1949	Colorado River Aqueduct Pumping Plants Domestic Water Treatment System Replacement	J.F. Shea Construction, Inc.	\$32,869,737	\$12,862,862	1/20/22	3/25	39%
9	1962	MWD HQ Building Fire Alarm & Smoke Control Improvements <sup>12</sup>	Bernards Bros. Inc.	\$14,355,588	\$13,159,228	9/24/20	6/24	92%
10	1966	Sepulveda, West Valley, and East Valley Feeders Interconnection Upgrades	Blois Construction, Inc.	\$3,143,592	\$2,337,861	7/7/22	5/24	74%

<sup>10</sup> The Contract Amount may differ from the original bid amount due to periodic change orders approved by the General Manager or, if required, by the Board.

<sup>11</sup> Earnings reported in this table are the total contract earnings as they are known to be at the end of the reporting quarter.

<sup>12</sup> Granting of additional working days to complete construction is being considered.

	Cont. No.	Contract Title	Contractor	Contract Amount <sup>10</sup>	Earnings Through March 2024 <sup>11</sup>	Start Date	Est. Completion Date	Est. Percent Complete
11	1976	Gene Communication System Upgrade	HP Communications, Inc.	\$1,244,935	\$18,000	12/14/23	11/24	1%
12	1982	Weymouth Water Treatment Plant Basins Nos. 5-8 & Filter Building No. 2 Rehabilitation	J.F. Shea Construction, Inc.	\$95,045,436	\$62,472,641	6/10/22	7/25	66%
13	1989	Metropolitan Headquarters Building First Floor Video Suite Renovation	Acro Constructors	\$637,520	\$637,520	6/15/23	8/24	99%
14	1990	Henry J. Mills Water Treatment Plant Electrical Upgrades, Stage 2	CSI Electrical Contractors, Inc.	\$9,392,642	\$4,721,301	12/13/21	3/25	50%
15	1992	Weymouth Water Treatment Plant Hazardous Waste Staging and Containment	J.F. Shea Construction, Inc.	\$2,375,700	\$0	3/12/24	4/25	0%
16	1998	Jensen and Skinner Water Treatment Plants Battery Energy Storage Systems	Ameresco, Inc.	\$11,604,521	\$4,795,893	10/7/21	11/24	41%
17	1999	Foothill Hydroelectric Power Plant Seismic Upgrade	West Valley Investment Group, Inc.	\$6,174,000	\$3,189,515	4/27/23	9/24	52%
18	2000	Hinds, Eagle Mountain, and Iron Mountain Pumping Plants Storage Buildings	J. F. Shea Construction, Inc.	\$16,490,000	\$2,619,653	7/31/23	4/26	16%
19	2001	Jensen Water Treatment Plant Ozone Power Supply Units Replacement	Leed Electric, Inc.	\$2,257,897	\$1,381,850	7/20/22	6/24	61%
20	2003	Metropolitan Headquarters Building Exterior Physical Security Improvements <sup>12</sup>	Caltec, Corp.	\$2,204,266	\$1,580,106	1/12/23	5/24	72%
21	2004	DVL Floating Wave Attenuator Replacement	Power Engineering Construction Co.	\$7,842,856	\$0	3/12/24	3/26	0%

	Cont. No.	Contract Title	Contractor	Contract Amount <sup>10</sup>	Earnings Through March 2024 <sup>11</sup>	Start Date	Est. Completion Date	Est. Percent Complete
22	2013	Lake Mathews PCCP Rehabilitation Valve Storage Building <sup>12</sup>	Facility Builders & Erectors, Inc.	\$4,872,022	\$4,774,608	3/10/22	5/24	98%
23	2014	Weymouth Plant Battery Energy Storage System <sup>12</sup>	Siemens Industry, Inc.	\$6,176,521	\$4,070,004	7/18/22	6/24	66%
24	2018	Weymouth Water Treatment Plant Asphalt Pavement Rehabilitation	Granite Construction Company	\$1,754,000	\$0	4/10/24	12/24	0%
25	2020	Wadsworth Pumping Plant Bypass Pipeline	Steve P. Rados, Inc.	\$14,820,500	\$10,625,334	2/2/23	7/24	72%
26	2021	Inland Feeder/Rialto Pipeline Intertie	Steve P. Rados, Inc.	\$15,681,000	\$745,700	10/16/23	6/25	5%
27	2024	OC-88 Pump Station Chiller Replacement <sup>12</sup>	Mehta Mechanical Co., Inc. dba MMC Inc.	\$2,654,000	\$1,569,600	6/6/22	6/24	59%
28	2026	Second Lower Feeder PCCP Rehabilitation - Reach 3B	J.F. Shea Construction, Inc.	\$68,942,706	\$43,367,966	2/13/23	9/25	63%
29	2040	Inland Feeder Badlands Tunnel Surge Protection Facility	Steve P. Rados, Inc.	\$18,840,000	\$844,500	12/11/23	5/25	4%
30	2042	CRA Conveyance System Solar Level Sensor Installation	LEED Electric, Inc.	\$5,266,000	\$1,368,896	6/15/23	9/24	26%
31	2051	Lake Mathews Administration and Warehouse Building Roof Replacement	Best Contracting Services, Inc.	\$452,886	\$21,964	8/10/23	5/24	5%
32	2057	CRA Freda Siphon Barrel No.1 Internal Seal Installation	Miller Pipeline, LLC	\$3,895,000	\$750,956	10/9/23	5/24	19%
33	2084	San Diego Canal Concrete Liner Rehabilitation <sup>13</sup>	Bosco Constructors, Inc.	\$4,400,000	\$4,400,000	11/2/23	4/24	100%

<sup>13</sup> Construction is 100% complete and a Notice of Completion (NOC) will be filed with the County of Riverside in April 2024.

	Cont. No.	Contract Title	Contractor	Contract Amount <sup>10</sup>	Earnings Through March 2024 <sup>11</sup>	Start Date	Est. Completion Date	Est. Percent Complete
34	2088	Sepulveda Feeder PCCP Carbon Fiber Reinforced Polymer Urgent Relining	Structural Preservation Systems	\$1,962,691	\$140,000	9/14/23	5/24	7%
<b>Total contract value for active construction contracts:</b>				<b>\$461,761,719</b>				



The following table lists the 21 ongoing procurement contracts at the end of the 3<sup>rd</sup> Quarter.

**Table 11: Active Procurement Contracts at the End of 3<sup>rd</sup> Quarter**

	Cont. No.	Contract	Contractor	Contract Amount <sup>14</sup>	Earnings Through March 2024 <sup>15</sup>	Start Date	Est. Delivery Completion Date	Est. Percent Complete <sup>16</sup>
1	1861	Furnishing Lubricated Plug Valves for Second Lower Feeder	Southwest Valve & Equipment, Inc.	\$2,380,909	\$2,362,968	9/11/17	D <sup>17</sup>	99%
2	1867 <sup>18</sup>	Furnishing Butterfly Valves for the Weymouth Water Treatment Plant – Schedule 1	Crispin Valve, LLC	\$5,066,975	\$3,769,482	12/18/17	6/24	74%
3	1868	Furnishing Butterfly Valves for the Weymouth Water Treatment Plant – Schedule 2	DeZurick, Inc.	\$771,984	\$765,184	12/18/17	D <sup>17</sup>	99%
4	1873	Furnishing One Hydraulic Shear System for the La Verne Maintenance Shops	Landmark Solutions, LLC	\$151,870	\$146,970	3/21/18	D <sup>17</sup>	97%
5	1912	Furnishing Large-Diameter Conical Plug Valves	Ebara Corporation	\$23,750,060	\$19,585,112	12/24/18	1/25	82%
6	1922	Furnishing One Double Column Vertical Machining Center for the La Verne Maintenance Shops	Gosiger Machine Tools, LLC (Gosiger West)	\$2,319,600	\$2,273,100	9/17/18	D <sup>17</sup>	99%
7	1948	Refurbishing Valve Actuators for the Diemer Water Treatment Plant	Flowserve Limatorque	\$3,370,402	\$3,370,402	2/16/19	9/24	99%
8	1955	Furnishing Membrane Filtration Systems for the CRA Domestic Water Treatment Systems	Wigen Water Technologies	\$1,244,535	\$654,870	5/28/20	7/25	53%

<sup>14</sup> The Contract Amount may differ from the original bid amount due to periodic change orders approved by the General Manager or, if required, by the Board.

<sup>15</sup> Earnings reported in this table are the total contract earnings as they are known to be at the end of the reporting quarter.

<sup>16</sup> Estimated Percent Complete is based on contract payments and may not reflect actual progress of fabrication. The contract will be 100% complete upon delivery of fabricated items and field services.

<sup>17</sup> All items were delivered prior to this reporting quarter but contract remains open pending use of manufacturer field services.

<sup>18</sup> Contract 1867 includes tariff and work on Furnishing Butterfly Valves for the Weymouth Water Treatment Plant – Schedule 1 per extra work directed in the November 2020 Board Letter, Item 7-1.

	Cont. No.	Contract	Contractor	Contract Amount <sup>14</sup>	Earnings Through March 2024 <sup>15</sup>	Start Date	Est. Delivery Completion Date	Est. Percent Complete <sup>16</sup>
9	1965	Furnishing Equipment for the Jensen Ozone Power Supply Units Upgrades	Suez Treatment Solutions, Inc.	\$4,141,194	\$3,616,396	3/30/20	D <sup>17</sup>	87%
10	2002	Furnishing Steel Liner for Lakeview Pipeline	Northwest Pipe Company	\$16,055,500	\$0	12/14/23	6/24	0%
11	2022	Furnishing Butterfly Valves for the Wadsworth Bypass Pipeline, Inland Feeder-Rialto Pipeline Intertie, and Badlands Tunnel Isolation Surge Tanks	Sojitz Machinery Corp. of America	\$5,647,405	\$0	10/3/22	9/25	0%
12	2028	Furnishing Slide Gates for the San Jacinto Diversion Structure	Whipps, Inc.	\$820,853	\$0	12/8/22	6/24	0%
13	2029	Furnishing Slide Gates for East Lake Skinner Bypass Channel	Whipps, Inc	\$892,552	\$0	4/10/24	11/25	0%
14	2046	Furnishing a 20-inch Triple Offset Ball Valve for Service Connection CB-11	Cascade Consultants, LLC	\$407,800	\$0	3/8/23	8/24	0%
15	2048	Furnishing Butterfly Valves for the Inland Feeder/SBVMWD Foothill Pump Station Intertie - Schedule 1	Sojitz Machinery Corp. of America	\$2,601,437	\$0	6/15/23	5/26	0%
16	2056	Furnishing a Brushless Motor Exciter System for Gene Pumping Plant Unit No. 1	WEG Electric	\$544,501	\$0	5/27/24	6/25 <sup>19</sup>	0%
17	2096	Furnishing a 132-inch Butterfly Valve for the Foothill Pump Station Intertie	Vogt Valves, Inc,	\$1,779,174	\$0	6/3/24	5/27 <sup>19</sup>	0%
18	PO 214904	Furnishing Two Butterfly Valves for the Lake Skinner Outlet Tower Valve Replacement	B&K Valves and Equipment, Inc.	\$1,174,475	\$0	6/13/23	6/25	0%
19	PO 214941	Furnishing Air Release and Vacuum Valves for San Diego Pipeline Nos. 3 and 5	B&K Valves and Equipment, Inc.	\$1,466,665	\$0	6/13/23	9/24	0%

<sup>19</sup> As of the date of this report, a Notice to Proceed has not been finalized and as such dates provided are estimates only.

	Cont. No.	Contract	Contractor	Contract Amount <sup>14</sup>	Earnings Through March 2024 <sup>15</sup>	Start Date	Est. Delivery Completion Date	Est. Percent Complete <sup>16</sup>
20	PO 219501	Furnishing of five globe valves to be installed at four pressure control structures in the Orange County region	B&K Valves and Equipment, Inc.	\$698,000	\$0	12/5/23	1/25	0%
21	PO 219516	Furnishing Plug Valves for the Foothill Feeder and Rialto Pipeline	Caasi Flow Control	\$549,592	\$0	2/15/24	8/24	0%
<b>Total contract value for active procurement contracts:</b>				<b>\$75,835,483</b>				

## Performance Metrics

To measure project performance efficiency and to identify areas for continuous improvements, Metropolitan’s Engineering Services Group has established two primary performance metrics for projects that will result in construction activities. These metrics serve as performance targets for Metropolitan staff for both final design and inspection activities. The inspection metric includes fabrication and construction inspection, as well as construction management services.

Separate performance targets have been established for two categories of project size: those with projected construction costs greater than \$3 million, and those with projected construction costs less than \$3 million.

Metropolitan’s **performance metric targets** for the two categories of construction projects are listed below:

Project Category	Final Design, % of Construction	Inspection % of Construction
Projects with Construction Costs > \$3 Million	9% to 12%	9% to 12%
Projects with Construction Costs < \$3 Million	9% to 15%	9% to 15%

Prior to proceeding with final design or construction, budgets are established for design and inspection that best provide a quality and timely product. Efforts are made to optimize staff and consultant hours based on project complexity and location. The calculated values for the design and inspection costs, as a percentage of total construction costs, in most cases lie within or below the metric target ranges. In select cases, the calculated values may exceed the metric target ranges.

Once a project phase is complete, either final design or construction, staff’s performance against these metrics is then calculated and compared to the target metrics. Table 12 and Table 13 on the following page summarize the comparison between the target metrics and the actual performance metrics for each project category for the current reporting period. In cases where the actual performance exceeded the target metric, explanations for the variance are provided. Actual performances are reported for the Board awarded construction contract projects.

**Table 12: Performance Metric Actuals, Construction Costs > \$3 Million**

Project	Metric	Actual Cost of Metric	Construction Cost	Target Range	Actual %
Diamond Valley Lake Floating Wave Attenuator System Improvements – Stage 2	Final Design	\$494,234	\$7,842,856	9% to 12%	6.3%
Headquarters Building Fire Sprinkler Level P1 Replacement	Inspection	\$123,282	\$3,746,706	9% to 12%	3.3%
Orange County Feeder Relining - Reach 3	Inspection	\$1,641,351	\$18,556,181	9% to 12%	8.8%

Table 13: Performance Metric Actuals, Construction Costs &lt; \$3 Million

Project	Metric	Actual Cost of Metric	Construction Cost	Target Range	Actual %
Mills Maintenance Building Roof Replacement <sup>20</sup>	Inspection	\$162,117	\$633,980	9% to 15%	25.6%
Weymouth Area Paving	Final Design	\$115,500	\$1,975,000	9% to 15%	5.8%
Weymouth Hazardous Waste Staging and Containment <sup>21</sup>	Final Design	\$397,476	\$2,496,700	9% to 15%	15.9%

<sup>20</sup> Inspection costs for Mills Maintenance Building Roof Replacement were higher than the target range due to the longer than anticipated time to complete construction, which required additional inspection. The construction delays were mainly due to unanticipated weather conditions, unforeseen site conditions, and longer than anticipated time to receive roofing materials due to supply shortages.

<sup>21</sup> Final design costs for Weymouth Hazardous Waste Staging and Containment were higher than the target range due to additional design efforts required to address unforeseen utilities that were discovered at the project site.

## Service Connections and Relocations

### Service Connections

No new agreements for service connections were approved by the General Manager pursuant to Sections 4700-4708 during the reporting period (January through March 2024).

### Relocations

No new relocation agreements involving an amount in excess of \$100,000 were approved under the authority of Section 8122(c) during the reporting period.

## Projects Expensed to Overhead

Progress, costs, and future plans for the project listed below was evaluated by Engineering Services, Finance, and Water System Operations, and Real Property. This assessment determined that no further work on this project is warranted as the refrigerator could be repaired. The listed project received the necessary Board authorization for various levels of effort conducted.

The Water Quality Lab Walk-in Refrigerator Replacement project was determined to be no longer needed and has been canceled. Labor charges from the project were used to conduct a study to determine the scope of work needed to make the walk-in refrigerator function again. It was determined that the equipment can be covered by a Major O&M project, so this project is no longer required. All expenditures have been expensed, and no capital asset has been placed into service.

Table 14: Projects Expensed to Overhead

Project	Expensed Amount
Water Quality Lab Walk-in Refrigerator Replacement	\$3,638



## Program/Appropriation Status

The following table provides the program and appropriation level budget versus cost-to-date and biennium planned expenditures versus actuals-to-date.

Table 15: Program and Appropriation Budget vs. Cost and Planned Expenditures vs. Actuals

Capital Programs/Appropriations	Appn. No.	Total to Date		Biennium to Date	
		Appn. Amount (\$1,000's)	Costs thru March 2024 (\$1,000's)	Biennium to Date Planned Expenditures (\$1,000's)	Biennium Actual Expenditures (\$1,000's)
<b>Colorado River Aqueduct Reliability Program</b>	<b>Total</b>	<b>\$546,130</b>	<b>\$497,440</b>	<b>\$67,170</b>	<b>\$71,903</b>
Cabazon Radial Gate Facility Improvements	15320	\$2,456	\$1,513	\$0	\$809
White Water Siphon Protection	15341	\$15,585	\$14,510	\$2,654	\$26
CRA - Conveyance Reliability	15373	\$118,393	\$117,852	\$1,916	\$1,475
CRA Pumping Plant Reliability	15374	\$24,467	\$24,012	\$0	\$9
CRA - Electrical/Power Systems Reliability	15384	\$60,465	\$56,811	\$6,107	\$8,321
CRA – Discharge Containment	15385	\$8,129	\$7,977	\$0	\$2
CRA - Reliability for FY2006/07 through FY2011/12	15438	\$134,194	\$125,192	\$22,015	\$5,720
CRA Main Pump Reliability	15481	\$75,500	\$70,284	\$13,310	\$17,226
CRA - Reliability for FY2012/13 through FY2017/18	15483	\$78,805	\$64,840	\$19,052	\$28,959
CRA - Reliability for FY2018/19 through FY2023/24	15507	\$28,136	\$14,449	\$2,116	\$9,355
<b>Cost Efficiency &amp; Productivity Program</b>	<b>Total</b>	<b>\$163,638</b>	<b>\$117,461</b>	<b>\$26,040</b>	<b>\$13,792</b>
DVL Recreation Facilities	15334	\$87,004	\$60,296	\$4,654	\$911
Yorba Linda Power Plant Modifications	15446	\$17,125	\$17,115	\$0	\$23
Business Operations Improvement	15484	\$19,316	\$13,710	\$1,926	\$3,472
Project Controls and Reporting System	15490	\$6,440	\$6,292	\$0	-\$10

Capital Programs/Appropriations	Appn. No.	Total to Date		Biennium to Date	
		Appn. Amount (\$1,000's)	Costs thru March 2024 (\$1,000's)	Biennium to Date Planned Expenditures (\$1,000's)	Biennium Actual Expenditures (\$1,000's)
Enterprise Content Management	15500	\$3,600	\$3,595	\$4,450	\$0
DVL Recreation Rehabilitation & Refurbishment	15515	\$2,248	\$1,400	\$150	\$487
Energy Sustainability Improvements	15521	\$27,905	\$15,053	\$14,860	\$8,909
<b>Dams and Reservoirs Improvements Program</b>	<b>Total</b>	<b>\$86,977</b>	<b>\$73,392</b>	<b>\$37,550</b>	<b>\$4,404</b>
Reservoir Cover and Replacement	15417	\$71,055	\$62,745	\$740	\$3,376
Dam Rehabilitation & Safety Improvements	15419	\$15,922	\$10,647	\$36,810	\$1,028
<b>Distribution System Reliability Program</b>	<b>Total</b>	<b>\$502,983</b>	<b>\$459,465</b>	<b>\$60,870</b>	<b>\$91,337</b>
Conveyance and Distribution System - Rehabilitation	15377	\$126,196	\$122,969	\$9,830	\$21,225
Conveyance and Distribution System - Rehabilitation for FY2006/07 through FY2011/12	15441	\$156,712	\$149,704	\$170	\$34,215
Hydroelectric Power Plant Improvements	15458	\$32,561	\$22,092	\$5,530	\$4,816
Conveyance and Distribution System - Rehabilitation for FY2012/13 through FY2017/18	15480	\$139,406	\$128,347	\$35,610	\$14,694
Pipeline Rehabilitation and Replacement	15482	\$1,143	\$1,089	\$360	\$56
Conveyance and Distribution System - Rehabilitation for FY2018/19 through FY2023/24	15503	\$46,966	\$35,264	\$9,370	\$16,330
<b>District Housing &amp; Property Improvements Program</b>	<b>Total</b>	<b>\$12,285</b>	<b>\$13,989</b>	<b>\$23,200</b>	<b>\$7,438</b>
Employee Village Enhancement	15513	\$12,285	\$13,989	\$23,200	\$7,438

Capital Programs/Appropriations	Appn. No.	Total to Date		Biennium to Date	
		Appn. Amount (\$1,000's)	Costs thru March 2024 (\$1,000's)	Biennium to Date Planned Expenditures (\$1,000's)	Biennium Actual Expenditures (\$1,000's)
<b>Minor Capital Projects Program</b>	<b>Total</b>	<b>\$60,500</b>	<b>\$33,576</b>	<b>\$14,800</b>	<b>\$8,277</b>
Capital Program for Projects Costing Less Than \$400,000 For Fiscal Years 2016/17 And 2017/18	15498	\$10,000	\$7,193	\$0	\$21
Capital Program for Projects Costing Less Than \$400,000 for FY2018/19 through FY2019/20	15504	\$15,500	\$12,439	\$2,050	\$1,015
Capital Program for Projects Costing Less Than \$400,000 for FY2020/21 through FY2021/22	15518	\$20,000	\$9,425	\$7,080	\$2,722
Capital Program for Projects Costing Less Than \$400,000 for FY2022/23 through FY2023/24	15526	\$15,000	\$4,519	\$5,670	\$4,519
<b>Prestressed Concrete Cylinder Pipe Rehabilitation Program</b>	<b>Total</b>	<b>\$372,384</b>	<b>\$354,714</b>	<b>\$91,090</b>	<b>\$87,047</b>
PCCP Rehabilitation and Replacement	15471	\$26,966	\$25,484	\$510	\$2,810
Sepulveda Feeder PCCP Rehabilitation	15496	\$42,806	\$34,548	\$4,280	\$6,625
Second Lower Feeder PCCP Rehabilitation	15497	\$284,927	\$278,496	\$78,650	\$72,131
Allen-McColloch Pipeline, Calabasas Feeder, and Rialto Pipeline PCCP Rehabilitation	15502	\$17,685	\$16,187	\$7,650	\$5,481
<b>Regional Recycled Water Program</b>	<b>Total</b>	<b>\$24,350</b>	<b>\$22,505</b>	<b>\$16,110</b>	<b>\$2,205</b>
Demonstration-Scale Recycled Water Treatment Plant	15493	\$24,350	\$22,505	\$16,110	\$2,205
<b>Right of Way &amp; Infrastructure Protection Program</b>	<b>Total</b>	<b>\$31,715</b>	<b>\$28,824</b>	<b>\$10,663</b>	<b>\$1,764</b>
Right of Way & Infrastructure Protection	15474	\$31,715	\$28,824	\$10,663	\$1,764

Capital Programs/Appropriations	Appn. No.	Total to Date		Biennium to Date	
		Appn. Amount (\$1,000's)	Costs thru March 2024 (\$1,000's)	Biennium to Date Planned Expenditures (\$1,000's)	Biennium Actual Expenditures (\$1,000's)
<b>System Flexibility/Supply Reliability Program</b>	<b>Total</b>	<b>\$751,702</b>	<b>\$706,139</b>	<b>\$59,475</b>	<b>\$64,591</b>
Hayfield and Lake Perris Groundwater Recovery	15402	\$1,500	\$1,135	\$1,795	\$21
Perris Valley Pipeline	15425	\$166,500	\$165,982	\$25,188	\$34,865
Water Delivery System Improvements	15488	\$119,131	\$98,153	\$28,991	\$28,547
Verbena Property Acquisition	15492	\$264,000	\$262,148	\$3,450	\$200
Delta Wetlands Properties (Delta Islands)	15494	\$200,570	\$178,723	\$51	\$958
<b>System Reliability Program</b>	<b>Total</b>	<b>\$450,210</b>	<b>\$380,346</b>	<b>\$81,000</b>	<b>\$73,415</b>
Information Technology System - Infrastructure	15376	\$51,306	\$47,815	\$70	\$97
Information Technology System - Security	15378	\$12,351	\$11,701	\$0	\$886
La Verne Shop Facilities Upgrade	15395	\$67,348	\$65,182	\$9,920	\$17,863
Water Operations Control	15467	\$59,561	\$47,486	\$18,040	\$5,404
Union Station Headquarters Improvements	15473	\$114,855	\$100,811	\$9,400	\$14,585
IT Infrastructure Reliability	15487	\$57,867	\$48,305	\$9,770	\$11,512
Operations Support Facilities Improvement	15495	\$32,889	\$27,058	\$14,020	\$7,516
Metropolitan Security System Enhancements	15499	\$25,866	\$15,383	\$7,185	\$4,331
Infrastructure Reliability Information System	15501	\$15,755	\$9,644	\$145	\$6,778
System-Wide Paving & Roof Replacements for FY 2018/19 through FY 2019/20	15516	\$5,491	\$4,256	\$6,580	\$2,663

Capital Programs/Appropriations	Appn. No.	Total to Date		Biennium to Date	
		Appn. Amount (\$1,000's)	Costs thru March 2024 (\$1,000's)	Biennium to Date Planned Expenditures (\$1,000's)	Biennium Actual Expenditures (\$1,000's)
System-Wide Paving & Roof Replacements for FY2020/21 through FY2023/24	15519	\$3,231	\$2,625	\$4,780	\$1,706
Enterprise Data Analytics	15522	\$3,690	\$80	\$1,090	\$76
<b>Treatment Plant Reliability Program</b>	<b>Total</b>	<b>\$888,610</b>	<b>\$846,241</b>	<b>\$37,770</b>	<b>\$98,158</b>
Weymouth Water Treatment Plant Improvements	15369	\$195,711	\$192,053	\$7,410	\$3,912
Jensen Water Treatment Plant Improvements	15371	\$47,437	\$46,767	\$310	\$129
Diemer Water Treatment Plant Improvements	15380	\$216,907	\$209,432	\$3,630	\$1,102
Mills Water Treatment Plant Improvements	15381	\$5,900	\$5,286	\$0	\$9
Diemer Water Treatment Plant Improvements for FY2006/07 through FY2011/12	15436	\$74,207	\$68,605	\$3,660	\$2,934
Weymouth Water Treatment Plant Improvements for FY2006/07 through FY2011/12	15440	\$93,332	\$90,600	\$9,779	\$63,083
Jensen Water Treatment Plant Improvements for FY2006/07 through FY2011/12	15442	\$91,376	\$86,366	\$3,820	\$1,670
Mills Water Treatment Plant Improvements for FY2006/07 through FY2011/12	15452	\$34,852	\$30,907	\$92	\$6,315
Weymouth Water Treatment Plant Improvements for FY2012/13 through FY2017/18	15477	\$77,539	\$77,395	\$39	\$437
Diemer Water Treatment Plant Improvements for FY2012/13 through FY2017/18	15478	\$3,255	\$2,402	\$120	\$966

Capital Programs/Appropriations	Appn. No.	Total to Date		Biennium to Date	
		Appn. Amount (\$1,000's)	Costs thru March 2024 (\$1,000's)	Biennium to Date Planned Expenditures (\$1,000's)	Biennium Actual Expenditures (\$1,000's)
Mills Water Treatment Plant Improvements for FY2012/13 through FY2017/18	15479	\$2,664	\$1,332	\$0	\$485
Jensen Water Treatment Plant Improvements for FY2012/13 through FY2017/18	15486	\$8,339	\$7,537	\$0	\$53
Weymouth Water Treatment Plant Improvements for FY2020/21 through FY2023/24	15505	\$1,365	\$962	\$0	\$660
Jensen Water Treatment Plant Improvements for FY2020/21 through FY2023/24	15508	\$21,096	\$15,207	\$7,130	\$10,001
Diemer Water Treatment Plant Improvements for FY2020/21 through FY2023/24	15510	\$4,891	\$3,436	\$0	\$2,681
Skinner Water Treatment Plant, Improvements for FY 2020/21 Through FY 2023/24	15512	\$5,364	\$4,841	\$1,720	\$1,204
Mills Water Treatment Plant Improvements for FY2020/21 through FY2023/24	15520	\$2,631	\$2,266	\$60	\$1,670
Chlorine System Improvements	15523	\$1,746	\$846	\$0	\$846
<b>Water Quality Program</b>	<b>Total</b>	<b>\$10,240</b>	<b>\$9,615</b>	<b>\$600</b>	<b>\$0</b>
Enhanced Bromate Control	15472	\$10,240	\$9,615	\$600	\$0
<b>Total CIP</b>		<b>\$3,901,723</b>	<b>\$3,543,707</b>	<b>\$526,338</b>	<b>\$524,332</b>

Notes on the above table:

- Numbers may not sum due to rounding.
- Numbers are based on the general ledger information downloaded on 04/15/2024.
- \$0 under Planned Expenditures indicates that while no expenditures are planned during the reporting period, expenditures may be planned during upcoming periods.
- Negative actual expenditures indicate the result of cost transfers, write-offs, or credits greater than actual costs for this biennium through the reporting quarter.



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