



Engineering, Operations, & Technology Committee

Engineering Services Manager's Report

Item 8b

March 13, 2023

National Engineers Week (E-Week)

- February 19, 2023 to February 25, 2023
 - Annual celebration that always encompasses George Washington's Birthday (February 22)
 - George Washington considered Nation's First Engineer for his surveying contributions
- Metropolitan was founded on the innovation of engineers and land surveyors – the CRA is a modern engineering marvel



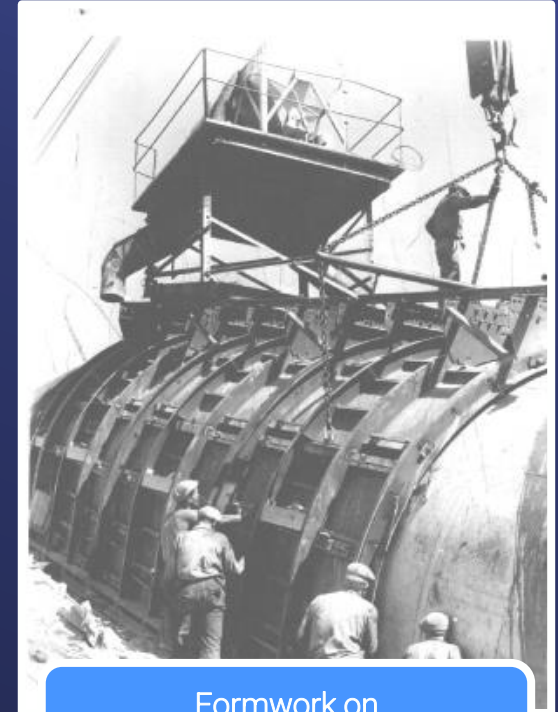
Geologists and engineers investigating core samples (1933)



Surveyors in the
Thousand Palms Tunnel (1936)



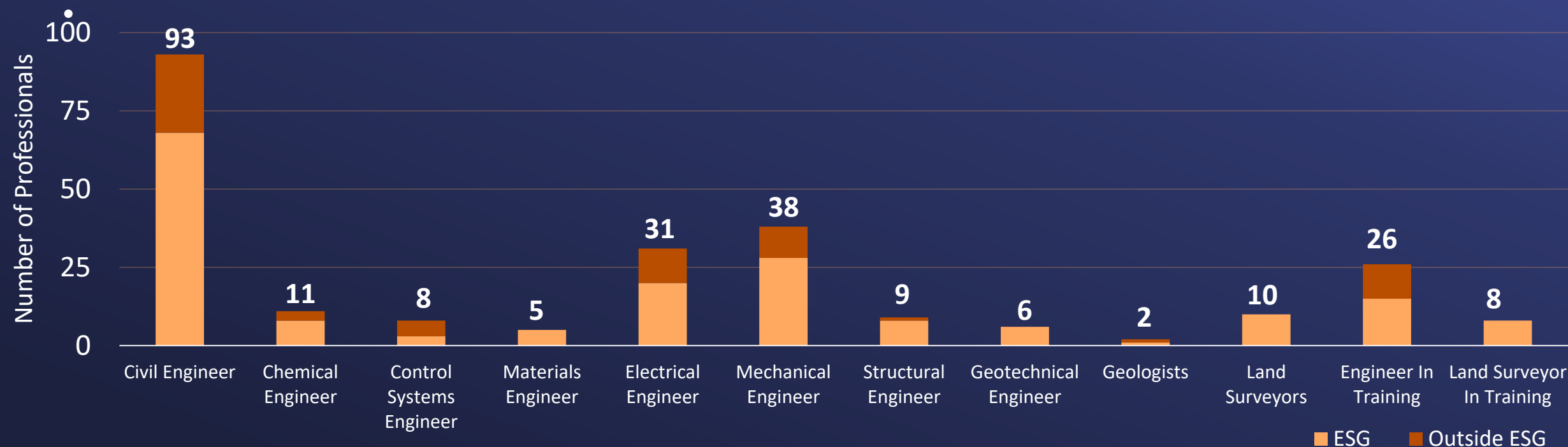
X-Ray machine testing integrity of welds
on the steel pipe of Upper Feeder (1936)



Formwork on
Eagle Mountain Siphons (1936)

National Engineers Week (E-Week)

- Metropolitan staff today continues the legacy of innovation to ensure water reliability in Southern California
- Metropolitan has 259 staff in the Engineering, Engineering Technician, Survey and Mapping Technician, and Land Surveyor classifications. This is a breakdown of the professional licenses our staff have, administered by the State of California’s Board for Professional Engineers, Land Surveyors, and Geologists:



Construction & Procurement Contracts January 2023

Construction & Procurement Contracts Through January 2023

Number of Contracts at end of January 2023	45
Total Bid Amount of Contracts in Progress at end of January 2023	\$565.8M
Contracts Awarded in January 2023	4
Contracts With Notice To Proceed Issued in January 2023	1
Contracts Completed in January 2023	1
Contract Gross Earnings in January 2023	\$11.1 M

CIP Quarterly Report October – December 2022

- Included with March Board packet
- Highlights include:
 - CIP expenditure forecast for biennium
 - Highlights of key projects
 - Assessment of construction cost trends



The Metropolitan Water District of Southern California

Capital Investment Plan Quarterly Report

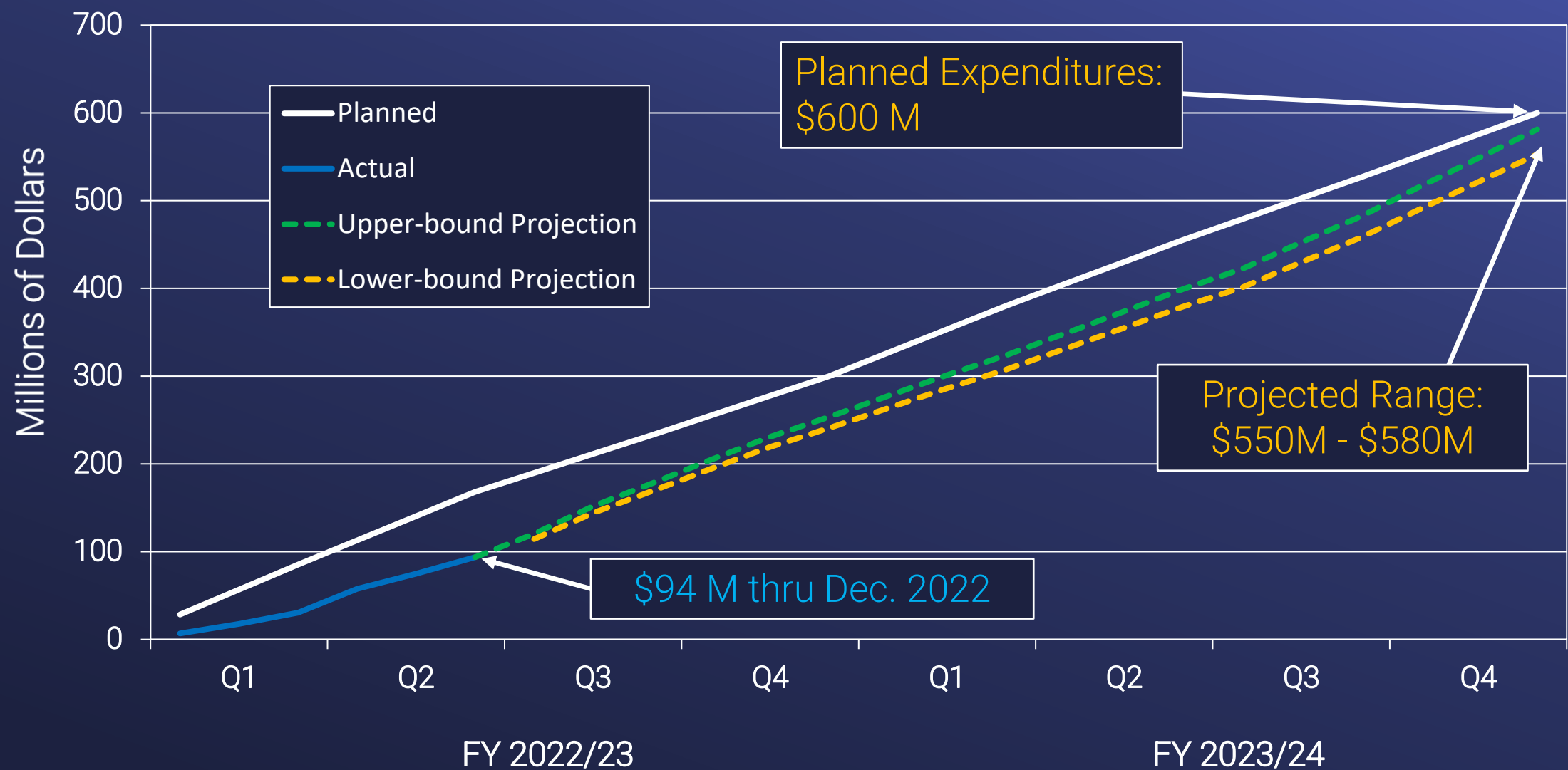


October - December 2022

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CIP Performance – FYs 2022/23 & 2023/24



Planned April 2023 Board Actions

- Award contracts for:
 - CRA structural protection
 - Large valves for drought projects
 - Seismic upgrades to Foothill power plant
- Authorize agreements for:
 - Studies for East/West conveyance drought actions
 - Seismic analysis of Lake Skinner Tower
 - Dam monitoring data acquisition systems
 - Design of Garvey Reservoir rehabilitation

Alternative Project Delivery Update

Sepulveda Feeder Pump Stations

- Reverse water flow on Sepulveda Fdr to deliver water from the Central Pool to the Jensen Exclusive Area
- Two new 30-cfs pump stations & appurtenant facilities

Approximate value -

- \$80-\$100M

Delivery method -

- Progressive Design Build (PDB)

Current Schedule -

- RFQ advertised – mid-March 2023
- Board award of Phase 1 agreement– August 2023 (Design)
- Construction Complete – early 2026

CRA Replacement of Casa Loma Siphon Barrel No. 1

- Board Award Date:
 - December 14, 2021
- Contract Amount:
 - \$11,499,000 / Paid to date: 83.6%
- Original Contract Duration:
 - 350 Calendar Days / 74.3% to date
- On-Going Construction Tasks:
 - Completed tie-in to aqueduct
 - Monitoring performance



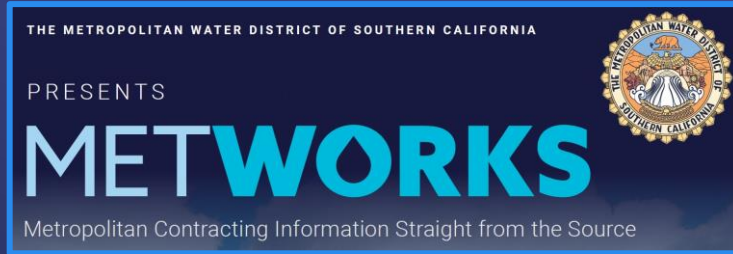
Demolition of existing
siphon at tie-in location

12th Japan - US. - Taiwan Conference on Water System Seismic Practices

- Held in Kumamoto, Japan
- January 30 to February 1, 2023



Industry Day – February 2, 2023 Carson, CA



Subcommittee on Pure Water & Regional Conveyance

- March 28, 2023
- Pure Water Quarterly Update
- Drought Portfolio Planning Update



