



Engineering & Operations Committee

Engineering Services Manager's Report

Item 7b

June 13, 2022

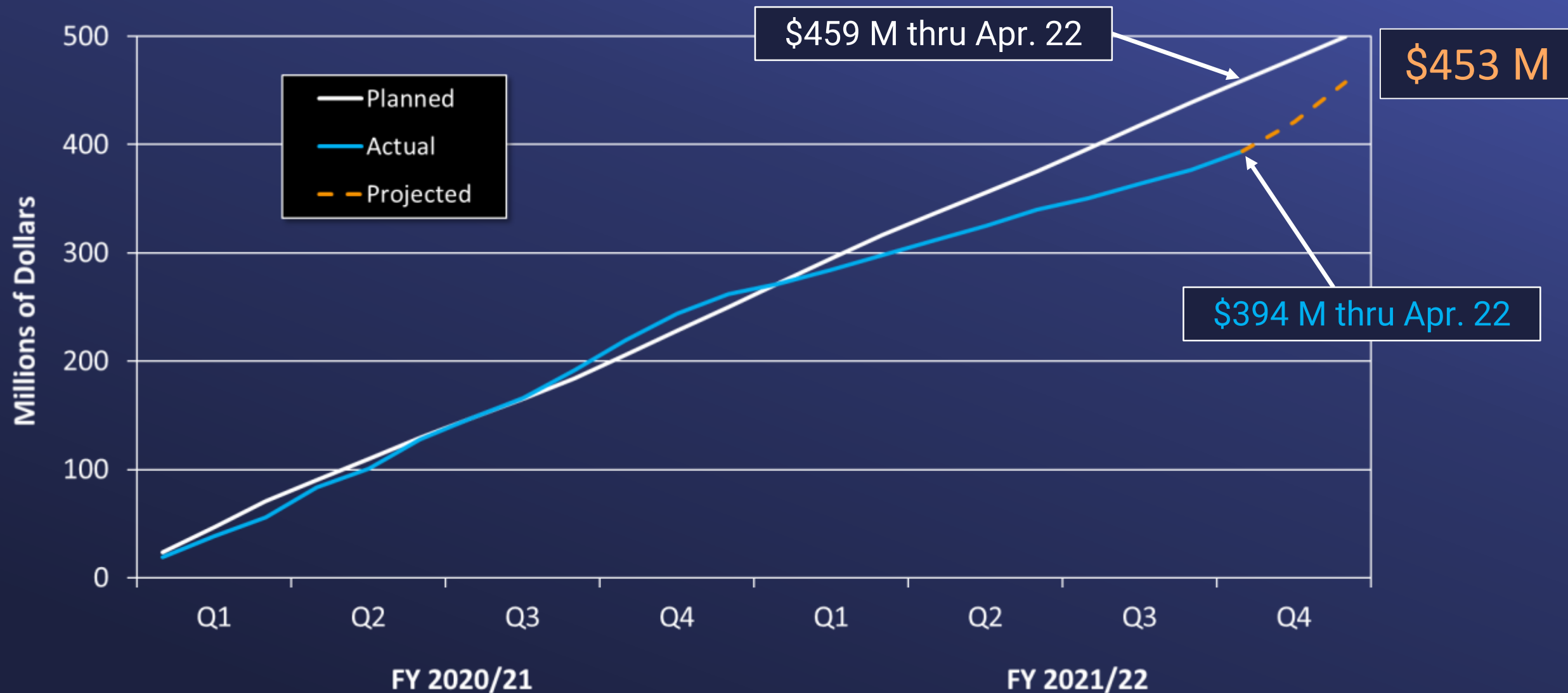
Construction & Procurement Contracts April 2022

Construction & Procurement Contracts Through April 2022

Number of Contracts at end of April 2022	38
Total Bid Amount of Contracts in Progress at end of April 2022	\$294M
Contracts Awarded in April 2022	1
Contracts With Notice To Proceed Issued in April 2022	1
Contracts Completed in April 2022	1
Contract Gross Earnings in April 2022	\$5.4M

CIP Expenditures Forecast

FYs 2020/21 & 2021/22



Factors Affecting Contract Expenditures

- **Supply chain issues**
 - CRA Crane, Jensen & Skinner BESS, various procurement contracts: -\$12.9 M
 - WIFI System, Two-way Radio System, Fuel Management System: -\$4.5 M
- **Contract scope changes**
 - CRA Pump Plant Sump System Rehabilitation: -\$10.4 M
- **Contract completion delays**
 - HQ Fire Alarm & Smoke Control Improvements: -\$5.5 M
- **Contract award delays**
 - SCADA System Upgrade for Mills Plant: -\$6.0 M
 - La Verne Shops – Stage 5: -\$1.5 M
 - Jensen Ozone PSU Installation: -\$0.2 M

Upper Feeder Monitoring and Repair Measures



June 13, 2022

Monitoring Plan

- Monitor crack length weekly
- Survey pipe/bridge movements weekly
- Install Automated Total Stations (AMTS) by late June to gather real-time data continuously

Near-term Repair – Carbon Steel (CS) Slip Joint

- Fabricate new CS joint to replace existing bellows
- Establish emergency contract for August 2022 shutdown installation
- Restore flow in Upper Feeder

Emergency Repair Plan – if necessary

- Implement emergency bellows weld repair if crack length increases over 30%
- Install a special seismic JFE pipe section in case of an unexpected failure (limited movements)

Upper Feeder Monitoring and Repair Measures

GM's Emergency Contracting Authority

- Authority granted under § 8122(b) - General Manager's Contracting Authority in Specified Circumstances
- Immediately award emergency contract to PCL Construction, Inc. under General Manager's Authority
- Negotiate final contract with PCL in anticipation of July Board action to ratify contract
 - Contract may be lump sum or T&M plus markup
 - Staff must return to Board monthly to discuss whether there is a need to continue the action
 - Continued emergency contract must be ratified by the Board on a monthly basis by 4/5th vote

CRA Storage Building Project

- Engineer's Estimate : \$14M
- 3 bids were received.
 - Range of bids: \$10.5M to \$18M
 - Low bidder withdrew their bid
- Staff rejected all bids
- Planning to re-design project to enhance overall value



The Dilapidated Existing Buildings



PCCP Inspection Summary 2021-22 Shutdown Season

- Detected only minor increases in condition deterioration
- No unplanned actions resulted from this year's inspections

2021/2022 PCCP Lengths Inspected

Pipeline	Miles
Sepulveda Feeder – January 2022	6.12
Second Lower Feeder	3.44
Sepulveda Feeder – March 2022	9.42
Total	18.98



Insertion of Pipe Diver for Electromagnetic Inspection of Second Lower Feeder Reach 3B

Metropolitan's Hazard Mitigation Plan

- Metropolitan currently developing a Hazard Mitigation Plan focused on mitigation of damage/impacts from natural hazards (e.g., earthquake, wildfire, drought)
- Recently Approved for \$150,000 grant for development of plan
- Completion of plan will open state and federal grant funding opportunities for related mitigation projects

