

## Major Factors Impacting Capital Improvement Program Development

Board of Directors Meeting January 13, 2021



## Overview CIP Development Process





- Investing in existing wastewater infrastructure renewal
- Addressing new infrastructure needs
- Adapting to shifting project priorities and changes
- Integrating key asset management principles
- Driving organizational improvement
- Planning for the future

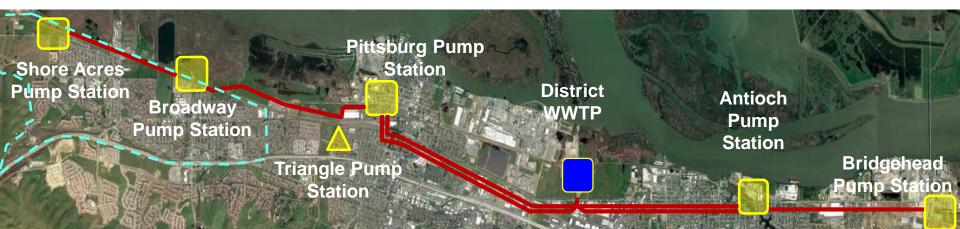
# Financial Sustainability Guiding Principles



- Critically review operating budget each year to identify budget adjustment needs and opportunities
- Ensure effective prioritization of a capital improvement program (CIP) that addresses critical infrastructure needs
- Utilize a 5-year rate model to identify SSC revenue needed to meet cost projections without sharp rate increases
- Maximize cash funding of CIP (vs. debt financing) to ensure lowest overall costs for District customers
- Meet District policy to maintain minimum reserve balance
- Factor growth into SSC calculation each year to ensure equitable cost allocation across customers
- Reserve future debt capacity for long-term secondary capacity expansion and nutrient management treatment plant upgrades
- Maintain SSCs below average relative to peer agencies

## Infrastructure Investment Wastewater Conveyance System





### Bay Point Sewer Repair Phase 5 = \$3.0M

 Collection system reliability and compliance with 2013 River Watch Settlement Agreement

### Antioch Conveyance System/Pump Station Improvements = \$8.3M

 Conveyance system reliability and infrastructure needs

### Pump Station Facilities Repair = \$14.1M

 Infrastructure needs and safety issues at six pump stations

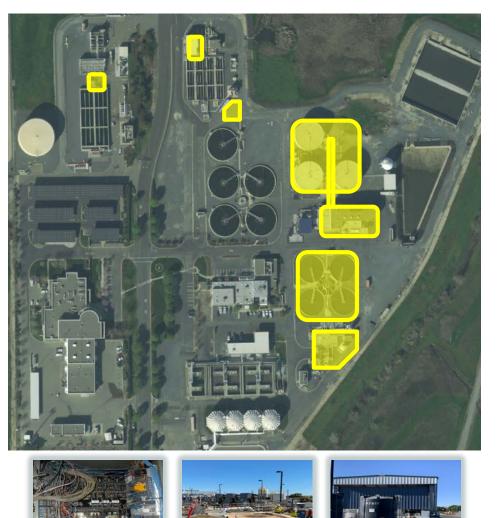


### Infrastructure Investment Wastewater Treatment Plant (WWTP)



### Rebuilding Major WWTP Infrastructure

- Headworks Improvements (\$12.0M) to improve influent screening and grit removal
- Primary Clarifier Improvements (\$4.2M) to replace critical scum and sludge collection pumps
- Electrical Switchgear Replacement (\$11.2M) to ensure reliability of power distribution system
- Digester and Cogeneration Engine Improvements (\$5.8M) to address infrastructure needs
- Sodium Bisulfite Tank Replacement (\$0.8M) to ensure dechlorination process reliability

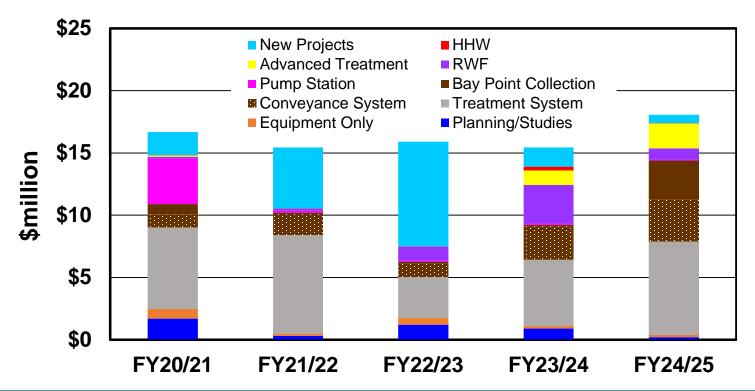




# **Current 5-year CIP Highlights**



- Total planned 5-year CIP = \$81.3 million
  - 70% allocated to WW Capital Asset Replacement Fund to support rehabilitation of critical wastewater infrastructure
- FY20/21 CIP Budget Appropriation = \$16.7M
  - Planned FY20/21 Expenditures = \$28.7M (\$12.0M in carryover)



# Major Drivers Impacting Development of Upcoming 5-yr CIP



Early project completion required additional \$3.0M in Headworks appropriations in FY20/21 (reduces need in FY21/22) Improvements [Board Approved: December 2020] Unplanned \$1.5M in FY20/21 for temporary line **Bridgehead** [Board Approved: September 2020] **Pipeline** Replacement Unplanned \$1.5-3.0M in FY21/22 for permanent line Current CIP = \$3.0M (FY21/22) + \$5.0M (FY22/23) Antioch Conveyance Staff expects to defer project due to conflicts with Improvements **Bridgehead Pipeline Replacement** 

# Major Drivers Impacting Development of Upcoming 5-yr CIP



Resource Recovery Facility Master Plan	<ul> <li>Condition assessment findings identified \$12.0-15.0M in new WWTP infrastructure renewal projects</li> <li>Staff to integrate and prioritize with existing CIP</li> </ul>
Secondary Process Upgrade/ Expansion	<ul> <li>Estimated \$60-70M required to address infrastructure/ growth needs – not included in current CIP [Presented to Board: November 2020]</li> <li>Requires significant debt issuance to offset SSC impacts</li> </ul>
Electrical Switchgear Replacement	<ul> <li>Significant increase in total cost from \$7.8M to \$11.2M; higher planning/design costs to mitigate potential risks, increased PG&amp;E review/approval/infrastructure costs</li> <li>Recent construction bid is \$0.6M higher than estimated; outside engineering, construction services</li> <li>Staff to request \$6.4M in new CIP (current = \$3.0M)</li> </ul>

# **Board Actions for Consideration**



- 1) Take Actions Related to Switchgear Replacement Project
  - b. Approve Project and Design; Waive Minor Irregularities in Bid Documents; Award and Authorize General Manager to Execute Construction Services Contract, in an Amount Not to Exceed \$6,647,104.17, Cupertino Electric, Inc.; Authorize General Manager or His Designee to Approve Contract Change Orders in an Amount Not to Exceed 7.5% of Contract Amount; and Take Related Actions, Treatment Plant Electrical Switchgear Replacement, Project No. 17120
  - c. **Authorize** General Manager to Execute Consulting Services Contract in an Amount Not to Exceed \$613,541, Engineering Services, Lee & RO, Inc.; and **Authorize** General Manager to Execute Consulting Services Contract in an Amount Not to Exceed \$901,618, Construction Management Services, Psomas, Treatment Plant Electrical Switchgear Replacement, Project No. 17120

# **Next Steps**



May 2021

- Initiate development of FY21/22-FY25/26 CIP
- Staff submittal of new project requests
- Develop fund plan and assess SSC impacts Feb 2021
- Review draft CIP with Finance Committee Apr 2021
- Present proposed CIP to Board and establish Public Hearing date
- Conduct Public Hearing and consider CIP Jun 2021
   adoption