



Wastewater  
Treatment



TRANSFORMING  
WASTEWATER  
TO RESOURCES



Recycled  
Water



Energy  
Production



Biosolids  
Reuse

# Recycled Water Master Plan and RWF Condition Assessment Project Consulting Services Contract Award


Board of Directors Meeting  
December 13, 2023


# Background


## “Transforming Wastewater to Resources”




- District **produces recycled water** to reduce local potable water demand, **generates onsite renewable energy** via biogas utilization, and **uses biosolids via land application** to recover valuable nutrients and improve soil health
- Recycled water is produced via District’s Recycled Water Facility (RWF)—50-55% of influent wastewater is recycled
  - 90-95% for **industrial use** at Calpine cooling towers (Los Medanos Energy Center [LMEC] and Delta Energy Center [DEC])
  - 5-10% for **irrigation customers** (golf course, parks, schools, etc.)

 **14** million gallons of wastewater treated each day

 **7.5** million gallons of recycled water produced each day

 **55%** of plant power needs met via on-site renewable energy production

 **38** tons of biosolids produced each day  
**100%** beneficial use of biosolids

# Specific Project Goals

## Overall Goal

**Develop an integrated, strategic planning focused guidance document with in-depth analysis in key areas to inform RWF infrastructure investment decisions in the near and long term**

### RWF Condition Assessment

- District obligation to provide Calpine with facilities assessment and costs by 6/13/25
- Calpine to inform District of future intentions by 6/13/26
- 30-year agreement ends 6/13/31

### RW Expansion Opportunities

- Identify potential new customers and associated RW distribution needs
- Significant capacity for irrigation customers in CCWD agreement
- City of Pittsburg interest
- Nutrient reduction benefits

### RW Quality Improvements

- Identify, evaluate, and recommend potential water quality capital upgrades (high \$\$\$)
- Engage w/CCWD on water supply augmentation
- Nutrient reduction benefits
- ECWMA connection

# Specific Project Goals (cont'd)

## Overall Goal

**Develop an integrated, strategic planning focused guidance document with in-depth analysis in key areas to inform RWF infrastructure investment decisions in the near and long term**

### RW and Nutrient Management

- District completed future RW opportunities report and submitted to Regional Water Board
- Identify, evaluate, and recommend strategies to reduce nutrient discharge to Delta via expanded irrigation uses

### Funding Opportunities

- Identify applicable grant or low-interest loan programs at local state, and federal level
- Clean Water SRF, WRWC
- ECWMA connection

### Engagement

- Achieve a high level of internal and external engagement and collaboration through all project phases

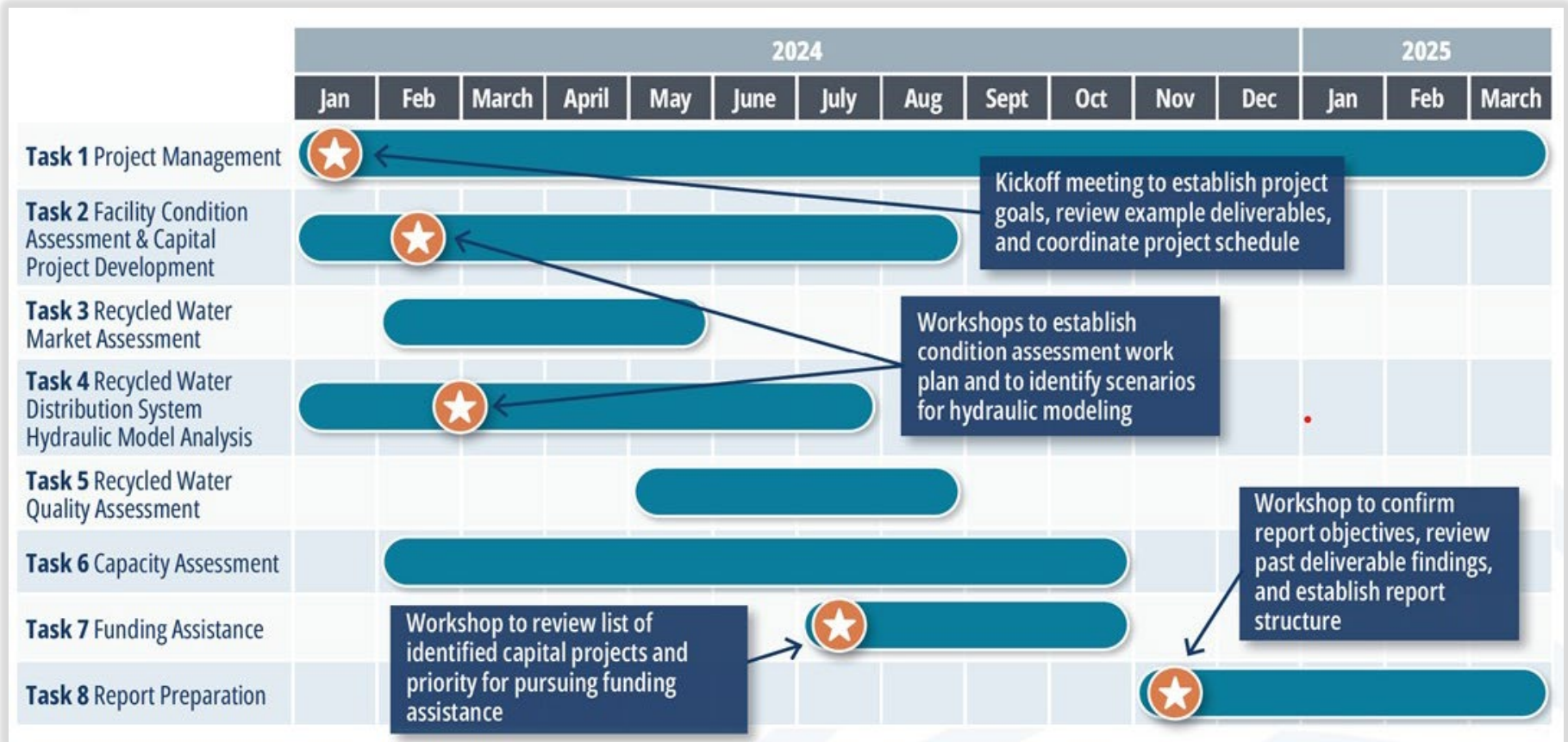
# Consultant Selection Process



- District issued an open Request for Proposal in October 2023—two proposals were received
- District evaluated proposals and selected **Woodard & Curran, Inc. as most highly-qualified firm** to provide engineering services for this effort
- Staff has negotiated scope of services and cost (\$474,944)
  - Project Management (\$48k)
  - Facility Condition Assessment and Project Development (\$130k)
  - Recycled Water Market Assessment (\$46k)
  - Recycled Water Distribution System Hydraulic Modeling (\$96k)
  - Recycled Water Quality Assessment (\$64k)
  - Capacity Assessment (\$14k)
  - Funding Assistance (\$14k)
  - Report Preparation (\$64k)



# Current Project Schedule



# Budget Considerations



- Board appropriated \$300,000 for this project as part of FY23/24 Budget; current 5-year CIP includes \$300,000 in expenditures through FY23/24
- Project Budget Increase Request: Staff is recommending transfer of funds from Recycled Water Capital Asset (RW CA) Fund Reserves (\$125,000) and Advanced Treatment (AT) Fund Reserves (\$125,000) to increase total project budget to \$550,000
  - \$474,944 for consulting services contract; higher contract value than originally planned will add value to key focus areas for District
  - \$75,056 for District staff labor

# Recommended Actions

1. Consider award and authorize General Manager to execute a consulting services contract with Woodard & Curran, Inc. to provide engineering services in an amount not to exceed \$474,944 for the RWMP and RWF Condition Assessment Project; and
2. Authorize GM to transfer monies to RWMP and RWF Condition Assessment Project from RW CA (\$125,000) Fund Reserves and AT (\$125,000) Fund Reserves in the amount of \$250,000, for a new total project budget of \$550,000