Potential Regional Recycled Water Supply Program

Engineering and Operations Committee
Item 6b
August 15, 2016
Topics to be Covered

- Background
- Schedule Review
- Progress on Demonstration Plant
- Feasibility Report Methodology
- Progress on Feasibility Study
- Funding Update
- Next Steps
Regional Water Supply Opportunity

Regional Approach Meets Resource Needs
- Significant, reliable new supply
  - Up to 150 MGD
- Favorably located to meet multiple member agency needs
- Importance of timing

Addresses Uncertainty
- Climate change
- Variations in existing supplies
- Demographic & economic change
- Emergency & seismic events
E&O Committee

Item 8-3 March 7, 2016

Joint Water Pollution Control Plant
Potential Full Program (up to 150 MGD)
September 2015 – Board information letter
October 2015 – Board presentation
November 2015 – Board action letter
- Appropriated $15 million in capital funds
- Authorized recycled water demonstration project
- Authorized feasibility and financing studies
- Authorized agreement with LA County Sanitation District No. 2 for development of potential regional recycled water program

March 2016 – Board action letter
- Awarded consultant agreements for demo plant
Demonstration Plant

Purpose
- To ensure quality of purified water for groundwater recharge

Anticipated Activities
- Provide water quality data for regulatory acceptance
- Coordinate operations with LACSD to ensure source quality and treatment
- Optimize full-scale treatment process design
- Establish cost clarity for treatment
- Provide vehicle for public outreach & acceptance
Joint Water Pollution Control Plant

Demo Plant Site

Full Scale Plant Site

Image courtesy of USGS Image courtesy of LAR-1ArcBalladar Geographics. S1D © 2015 Microsoft
Demonstration Plant Progress

- Executed agreement with LACSD for Demonstration Plant per Board authorization
- Advisory Panel Report on Demonstration Plant complete and posted on Metropolitan website
- Final design 50% complete
- Evaluation of 0.5 mgd facility indicates potential cost savings while meeting design goals and objectives
  - Advisory Panel concurs with re-sizing plant
Feasibility Report Methodology

1. No Fatal Flaws?
   - Regulatory Setting and Requirements
   - Public Acceptance
   - Base Case Treatment Plant and Transmission Systems
   - Groundwater Basins Storage, Spreading and Well Capacities
   - Overall System Operations and Water Management

2. Justified and Cost Effective?
   - Total System Capital and O&M Costs
   - Evaluation of Regional Benefits

3. Fair and Reasonable Rates and Charges?
   - Financing Plan, Rate Structure and Rate Impacts
Developed technical analyses and cost estimates for treatment, conveyance, and groundwater basins

Obtained Advisory Panel concurrence with feasibility methodology and approach

Meetings with various Member Agencies and Groundwater Basins on-going

Regulatory coordination on-going

Draft report on-schedule for review by Advisory Panel in late September
Demonstration Plant and Planning Studies Funding Update

Applications prepared for State Water Resources Control Board’s Water Recycling Funding Program

Planning Grants
- Up to $75,000 available for each planning project
- Total of $525,000 requested for 7 projects

Construction Grant
- $1 million of Prop 1 – Recycled Water Construction Grants funding identified
Next Steps

- Complete Feasibility Study
- Complete Financial Evaluation
- Complete final design of Demonstration Plant
- Hold Advisory Panel review of Feasibility Study
- Hold third regulatory coordination meeting
- Board Report and discussion in November
- Recommendation to Board in December