



Potential Regional Recycled Water Supply Program

Engineering & Operations Committee

Item 8-3

March 7, 2016

Current Action

- Authorize two professional services agreements for Metropolitan's potential regional recycled water supply program:
 - MWH Americas - \$1.2 million for design of the demonstration plant
 - Black & Veatch - \$1.9 million to conduct feasibility studies of the recycled water delivery system
- Adopt resolution supporting Metropolitan's application for & acceptance of funding from the SWRCB's Water Recycling Funding Program

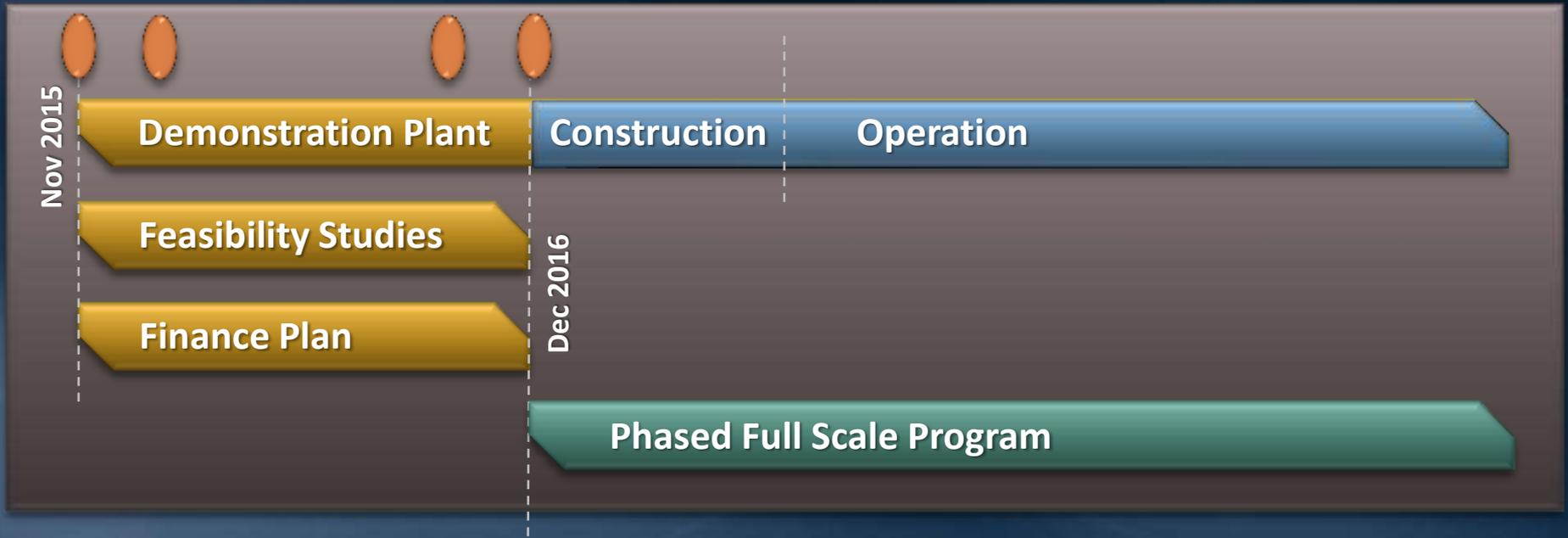
Background

- 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 design of demonstration plant
 - Authorized agreement with LA County Sanitation District No. 2 for development of potential regional recycled water program

Demonstration Project

- Three components
 - Demonstration plant (1 MGD)
 - Feasibility & environmental studies
 - Financing plan

Preliminary Program Timeline



Legend

-  Demonstration Project
-  Full Scale Program
-  Const. & Operation
-  Board Action/Info

Location Map



**Joint Water
Pollution Control
Plant**

PACIFIC
OCEAN

Joint Water Pollution Control Plant



Example of Demonstration Plant



Agreement #1 – MWH Americas Demonstration Plant Design

- Background

- 1-mgd demonstration plant at LACSD's JWPCP
- Advanced treatment of secondary effluent

- Purpose

- Provide water quality data for regulatory acceptance
- Optimize full-scale treatment process design
- Establish source water quality control criteria
- Confirm brine discharge constraints
- Establish cost clarity for advanced treatment
- Provide vehicle for public outreach & acceptance

Agreement #1 – Scope of Work

- Consultant

- Develop advanced treatment process trains
- Perform conceptual & final design of demonstration testing & support facilities
- Establish source water quality control criteria
- Confirm brine discharge constraints
- Provide bid phase support

- Metropolitan

- Provide technical oversight
- Integrate consultant's work with overall project

Agreement #1 – Consultant Selection

- RFP No. 1116 issued December 1, 2015
- 10% SBE/DVBE participation
- 3 firms responded
- Recommended prime consultant -
MWH Americas, Inc.
 - Total amount NTE \$1.2 million
- Subconsultants
 - Trussell Tech, Inc.
 - Carollo Engineers, Inc.
 - DDB Engineering, Inc.
 - Katz & Associates
 - William R. Mills & Assoc.

Agreement #2 – Black & Veatch Feasibility Studies of Recycled Water Delivery System

● Purpose

- Evaluate delivery system to potential recharge basins in Los Angeles, Orange, & San Bernardino Cos.
- Develop program phasing & timing
- Coordinate GW modeling & operational assessments
- Conduct regulatory & facility investigations
- Provide basis for regulatory approval
- Assist with agency planning & coordination

Agreement #2 – Scope of Work

- Consultant

- Conduct feasibility-level assessment of conveyance facilities
- Develop recommendations for the conveyance system

- Metropolitan

- Provide technical oversight
- Integrate consultant's work with overall project
- Coordinate with regulatory agencies on Indirect Potable Reuse

Agreement #2 – Consultant Selection

- RFP No. 1126 issued December 17, 2015
- 25% SBE/DVBE participation
- 3 firms responded
- Recommended prime consultant -
Black & Veatch
 - Total amount NTE \$1.9 million
- Subconsultants
 - CDM Smith, Inc.
 - DDB Engineering, Inc.
 - GeoPentech, Inc.
 - Melissa Blanton
 - Mingar & Associates
 - MWA Architects
 - Project Line Tech Services
 - Todd Groundwater

Adopt Resolution to Apply for and Accept Potential SWRCB Funding

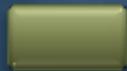
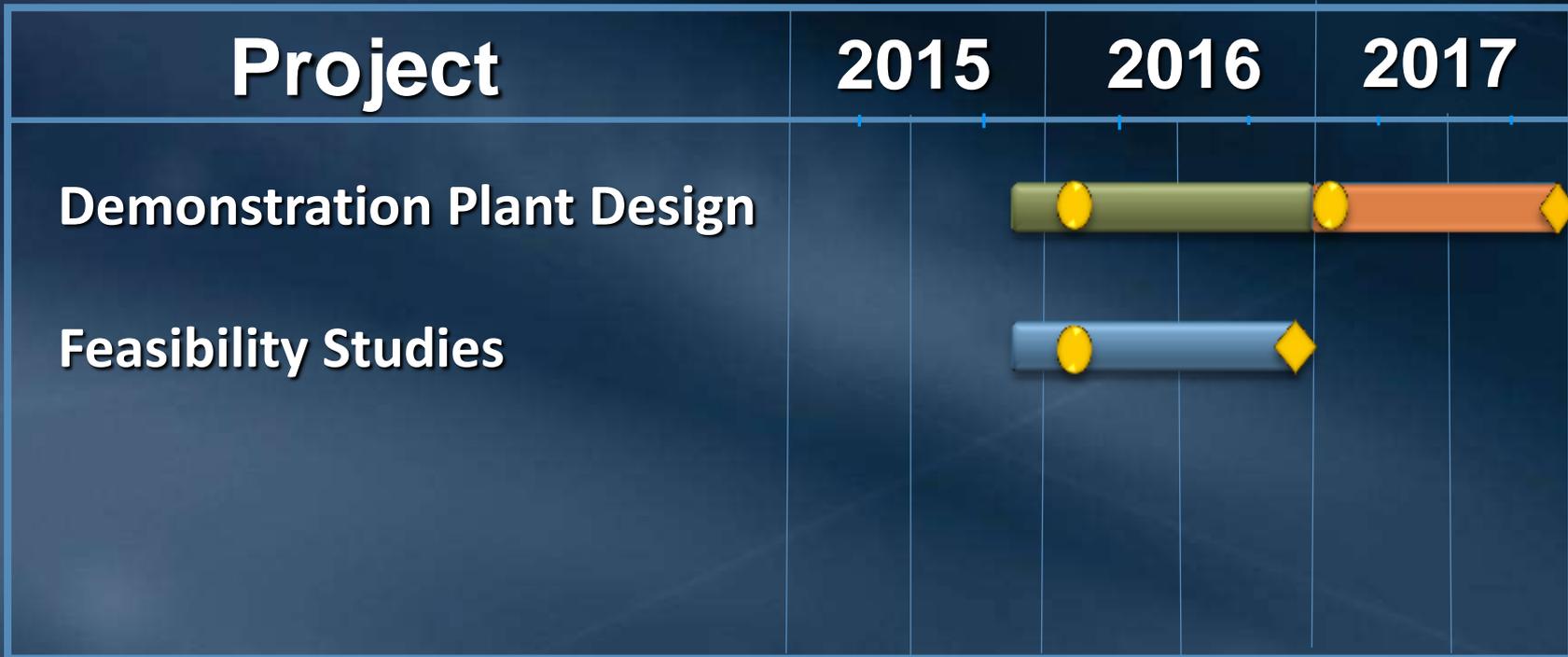
- Background

- State Water Resources Control Board's Water Recycling Funding Program
- Up to \$75,000 available for each planning project
- Total of \$525,000 requested for 7 projects
- Board resolution required as part of application

No Requested Funds

- Funds previously appropriated/allocated
- Demonstration plant
 - Appropriated November 2015
 - Funds available within capital expenditure plan for FY 2015/16
- Feasibility studies will be completed with O&M funds during FY 2015/16 & FY 2016/17
- Funding from SWRCB's Water Recycling Funding Program would help defray Metropolitan's costs for the potential regional recycled water program

Schedule



Design



Construction



Studies



Board Action/Info



Completion

Board Options

- Option #1

- Adopt CEQA determination that the proposed action is categorically exempt
- Authorize two professional services agreements
- Adopt resolution for application & acceptance of potential SWRCB funding

- Option #2

- Do not authorize the professional services agreements
- Do not adopt resolution for SWRCB funding

Staff Recommendation

- Option #1

