

Engineering, Operations, & Technology Committee

## Pure Water Southern California Preliminary Design of Conveyance Reaches 1 & 2

Item 7-3 March 13, 2023

#### **Current Action**

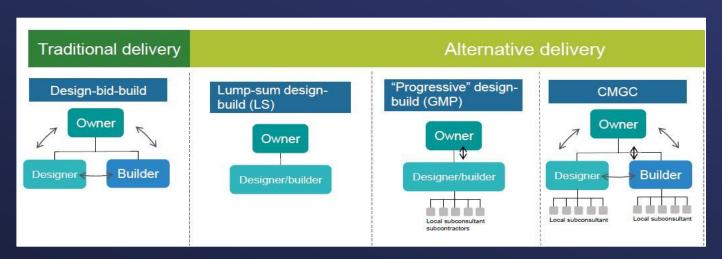
- Authorize agreement with Black & Veatch Corporation, Inc. in an amount not to exceed \$8 million for preliminary design of conveyance Reach 1
- Authorize agreement with HDR Engineering, Inc. in an amount not to exceed \$9 million for preliminary design of conveyance Reach 2
- Adopt a resolution to support a grant application to the U.S. Bureau of Reclamation for water recycling & desalination planning & authorize the General Manager to accept the grant if awarded

#### Background

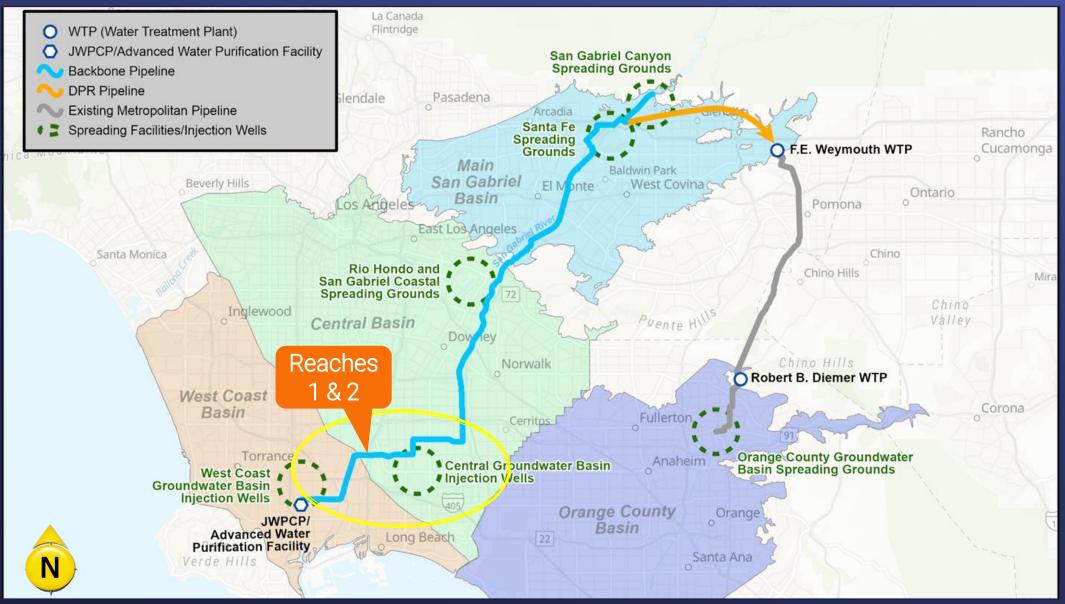
- November 2020 Board authorized preparation of environmental documentation & technical studies
- December 2022 Board authorized use of \$80 million in State funding for key activities
  - Initiation of program management team
  - Designs of initial pipeline reaches
  - Source of matching funds for USBR grant
- January 2023 Board authorized agreement with joint venture of AECOM & Brown & Caldwell for program management services

#### Approaches to Project Delivery for Pure Water

- Traditional project delivery approach
  - Design-Bid-Build
- Additional project delivery methods available January 1, 2023
  - Design Build (DB)
  - Progressive Design Build (PDB)
  - Construction Manager / General Contractor (CM/GC)



#### Program Overview



#### Background



Advanced Water Purification Facility

#### Planned Work Under Agreements

- Preliminary Design Activities
  - Performing field geotechnical exploration, utility investigations & potholing
  - Developing the final pipeline alignment
  - Establishing design criteria
  - Developing preliminary traffic control plans & construction permit requirements
  - Performing hydraulic & surge analyses

#### Planned Work (continued)

- Preliminary Design Activities
  - Developing control schematics, system descriptions, & SCADA coordination
  - Providing material selection & design of coating & cathodic protection systems
  - Delivering preliminary design report & design drawings

## Black & Veatch Corporation, Inc. - New Agreement

- Selected under Request for Proposal No. 1334
- Scope of work
  - Preliminary design of Reach 1 (6 miles)
- NTE amount: \$8,000,000
- SBE participation level: 25%

## HDR Engineering, Inc. -New Agreement

- Selected under Request for Proposal No. 1334
- Scope of work
  - Preliminary design of Reach 2 (8 miles)
- NTE amount: \$9,000,000
- SBE participation level: 25%

#### **Alternatives Considered - Staffing**

- Utilize Metropolitan staff to perform all work
  - Assess current staff workload & availability
  - Use project-specific professional services agreements as required
- Selected Option
  - Utilize professional service agreements for subject design
  - Use two consulting firms to complete the work for timely completion of milestones

#### Metropolitan Scope

- Technical oversight & review of consultant's work
- Input into the development of detailed design criteria
- Survey & mapping
- Project management
- Permitting
- Right-of-way support
- Regulatory agency coordination

## Pure Water Southern California Federal Grant Funding

# WaterSMART: Water Recycling & Desalination Planning Grant

- Federal grant application for up to \$5 million from the U.S. Bureau of Reclamation (USBR)
  - \$4 million to Metropolitan, \$1 million to Los Angeles County Sanitation Districts, with \$15 million match required
- Planned use of grant funds include:
  - Completion of feasibility study to support future grants
  - Preliminary design of initial pipeline reaches
  - Preliminary design of Pure Water treatment facilities
- Funding period is October 2023 to October 2025

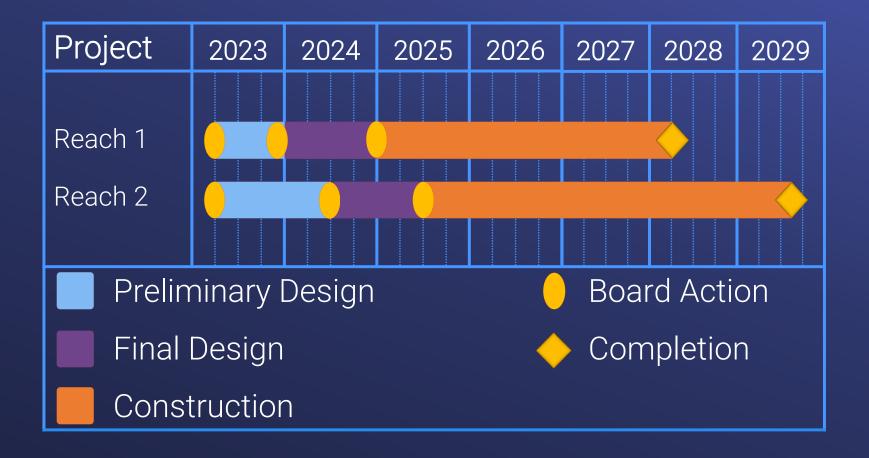
#### Allocation of Funds

## Preliminary Design of Conveyance Reaches 1 & 2 for Pure Water Southern California

	Total*	\$ 28,000,000
Remaining Budget		1,400,000
HDR Engineering, Inc.		9,000,000
Black & Veatch Corporation, Inc.		8,000,000
Professional/Technical Services		
Owners Costs (proj. mgmt., permitting, etc.)		2,800,000
Studies & Investigations (tech. oversight, surveying, mapping, etc.)		\$ 6,800,000
Metropolitan Labor		

<sup>\*</sup>Total funds required for this work will be covered by the \$80 million State funding

#### Project Schedule



#### **Board Options**

- Option #1
  - a. Authorize agreement with Black & Veatch Corporation, Inc. in an amount not to exceed \$8 million for the preliminary design of conveyance Reach 1 of the Pure Water Southern California program.
  - b. Authorize agreement with HDR Engineering, Inc. in an amount not to exceed \$9 million for preliminary design of conveyance Reach 2 of the Pure Water Southern California program.
  - c. Adopt a resolution to support a grant application to the U.S. Bureau of Reclamation for water recycling and desalination planning and authorize the General Manager or a designated representative to accept the grant if awarded.

#### **Board Options**

- Option #2
  - a. Choose to proceed or not proceed with one or both of the agreements at this time and/or;
  - b. Choose to support or not support the USBR grant application.

#### Staff Recommendation

Option #1

