



Engineering, Operations, & Technology Committee

San Diego Canal Concrete Rehabilitation

Item 7-2

October 7, 2024

Item 7-2

San Diego Canal Concrete Rehabilitation

Subject

Award a \$1,833,650 construction contract to Power Engineering Construction Company for San Diego Canal Concrete Liner Rehabilitation at one location

Purpose

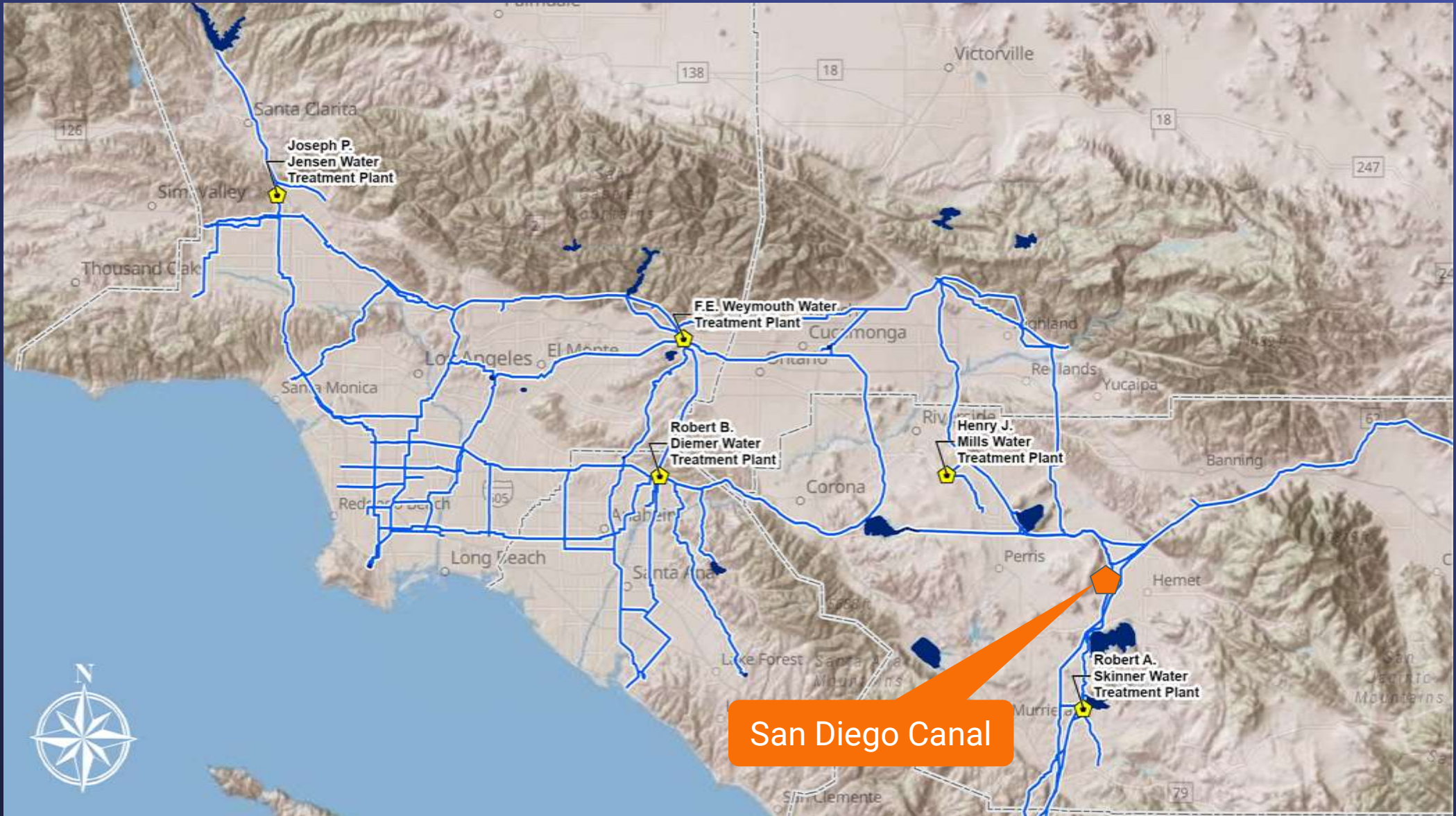
Improves the operational reliability of the canal and mitigates against the risk of unplanned outages

Recommendation and Fiscal Impact

Award a construction contract
Fiscal Impact – \$2,660,000

Budgeted

Location Map



Background

- San Diego Canal constructed in 1950s
 - Trapezoidal cross section
 - 15 feet deep, 50 feet wide, & 16 miles long
 - Concrete lining with individual panels
 - 12 feet by 11 feet
 - 4 to 8 inches thick



San Diego Canal

Background

- Inspections identify & prioritize rehabilitation locations
- 2024 inspection identified site requiring rehabilitation
 - Approx. 200 feet downstream of Casa Loma Canal interconnection
 - Visible cracking, groundwater intrusion, panel bulging & uplift



Damaged concrete liner

Alternatives Considered

- Identified Alternative - Construction by Metropolitan forces
 - CRA shutdown occurs simultaneously with San Diego Canal shutdown
 - Metropolitan forces not available due to CRA maintenance activities
- Selected Alternative – Contractor to complete construction
 - Allows Metropolitan staff to focus on CRA shutdown work



March 2024 Construction

Scope of Work

- Contractor
 - Demolition of damaged liner panels
 - Over-excavation & aggregate base backfill
 - Installation of new reinforced concrete liner panels totaling approximately 11,000 sf
- Metropolitan
 - Canal dewatering
 - Construction management
 - Contract admin., technical support, & project management



March 2024 Construction

Bid Results

Specifications No. 2119

Bids Received	September 10, 2024
No. of Bidders	7
Lowest Responsible Bidder	Power Engineering Construction Company
Low Bid	\$1,833,650
Range of Other Bids	\$2,100,444 to \$4,000,000
Engineer's Estimate	\$5,090,000
SBE Participation*	25%

*SBE (Small Business Enterprise) participation level set at 25%

Allocation of Funds

San Diego Canal Concrete Rehabilitation

Metropolitan Labor

Owner Costs (Proj. Mgmt., Contract Admin., Envir. Support)	\$	228,000
Construction Inspection & Support		229,000
Force Construction		95,000
Submittals Review, Tech. Support, Record Dwgs.		177,000

Contracts

Power Engineering Construction Company		1,833,650
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Remaining Budget		97,350
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Total \$ 2,660,000

Project Schedule



Board Options

- Option #1
Award a \$1,833,650 contract to Power Engineering Construction Company to rehabilitate the San Diego Canal at one location.
- Option #2
Do not proceed with the project at this time.

Staff Recommendation

- Option #1

