



CALIFORNIA
WATER FIX
RELIABLE. CLEAN. WATER.

BUDGET AND SCHEDULE

Exhibit B

EXHIBIT B – BUDGET AND SCHEDULE

SUMMARY

The California WaterFix's budget consists of two parts: design/construction, and mitigation. The construction budget was developed from a Class III estimate by 5RMK consultants which incorporates the Alternative 4a Conceptual Engineering Report (July 2015). 5RMK created a detailed estimate of construction costs based on the Association for the Advancement of Cost Engineers International (ACEI) standards for 10% design definition, which establishes a Class III estimate. DWR's Power and Risk Office (PARO) provided the cost estimate for temporary and permanent power. The PM/CM/Eng component of the Project Budget was derived from the anticipated staffing needed for program management, design, and construction management. The California WaterFix budget is in 2017 dollars with a 36% contingency. At this level of project definition the corresponding level of accuracy is +30% to -20%.

Estimated costs for mitigation and associated environmental commitments are preliminary and will be revised when permits are granted. The process for estimating these costs as presented in this exhibit are based on a summary and estimate created by ICF, which reflects the change from an HCP/NCCP to a Section 7 consultation. It also considers cost estimates for likely 404 permit requirements, and mitigation measures listed in the EIR/EIS Table 8.A-61. There are areas of mitigation where the plans are still being finalized and an estimate of cost is very preliminary, including water quality and air quality.

EXHIBIT B – BUDGET AND SCHEDULE

REVISED DATE 5-11-18

CALIFORNIA WATERFIX - CAPITAL BUDGET	
WATER FACILITY	2017 BUDGET
PROGRAM MANAGMENT¹	\$375,000,000
ENGINEERING MANAGEMENT²	\$1,635,000,000
ENVIRONMENTAL PERMITTING, MITIGATION PLANNING AND ENGINEERING	\$88,000,000
CONSTRUCTION	\$10,380,000,000
Intakes Construction	\$1,183,000,000
Forebays Construction	\$823,000,000
Utilities, Power and Roads Construction	\$406,000,000
Tunnel Construction	\$6,611,000,000
Tunnel Pad and Shaft Construction	\$841,000,000
Communications and Controls Construction	\$27,000,000
Pump Plants Construction	\$488,000,000
CONTINGENCY (36 PERCENT)	\$3,692,000,000
LAND ACQUISITION (INCLUDES 20% CONTINGENCY)	\$160,000,000
SUB-TOTAL WATER FACILITY	\$16,330,000,000
MITIGATION IMPLEMENTATION AND MONITORING (INCLUDES 35%CONTINGENCY)³	\$401,000,000
TOTAL CAPITAL BUDGET⁴	\$16,731,000,000

1 Includes program management cost through construction

2 Includes Engineering Design and Construction Management costs through construction

3 Does not include Operation and Maintenance costs when project is fully operational

4 Reflects 2014 Program budget of \$15,310,000 escalated to 2017 dollars

PROGRAM SCHEDULE

