



MWD

METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

8-3

August 18, 1998

To: Board of Directors (Budget and Finance Committee--Action)
(Engineering and Operations Committee--Action)

From: *for* General Manager

Edward J. Meenan
Gary M. Snyder

Submitted by: Gary M. Snyder
Chief Engineer

Subject: Appropriate \$2,860,000 for the Weymouth Rehabilitation Program and Delegate Authority to Award a Contract

Reference: Appropriation No. 15345

RECOMMENDATION(S)

To accomplish the F. E. Weymouth Filtration Plant Rehabilitation Program, it is recommended that the Board:

1. Appropriate \$2,860,000 of budgeted funds to finance all program costs in advance of award of a construction contract;
2. Delegate to the General Manager authority to award a procurement contract for equipment, not to exceed \$350,000; and
3. Authorize the General Manager to have all work performed, except for construction contracts of \$250,000 or more.

EXECUTIVE SUMMARY

The F. E. Weymouth Filtration Plant (Weymouth) has been in continuous operation since 1941. Some of the equipment and facilities have deteriorated over the years resulting in flow restrictions and reduced reliability. Engineering and Operations staff have identified a number of critical areas requiring rehabilitation to return the plant to reliable operations. Approval of these recommendations will authorize the General Manager to have all work performed in advance of award of a construction contract for the Weymouth Rehabilitation Program. The total estimated cost of the program is \$5,790,000.

JUSTIFICATION

The Weymouth Rehabilitation Program will increase plant reliability and safety by eliminating flow restrictions, while providing greater assurance in meeting water quality regulations, reducing maintenance costs, and enhancing plant operational flexibility and public perception.

ALTERNATIVE TO PROPOSED ACTION

Defer the Rehabilitation Program

An alternative is to defer the program to reduce near-term capital expenditures. However, delaying rehabilitation would jeopardize the plant's operational reliability and the ability to deliver high quality water at reduced cost in a safe environment.

FUNDING REQUEST

Program Name: Weymouth Filtration Plant Rehabilitation Program			
Source of Funds: Pay-As-You-Go Fund			
Appropriation No.: 15345	Board Action No.: 1	FY 98/99 Budget: \$1,135,100	
Requested Amount: \$2,860,000	Capital Program No.: 97813-A		
Total Appropriated Amount: \$2,860,000	Capital Program Page No.: E-83		
Total Program Estimate: \$5,790,000*	Program Category: Asset & System Integrity		

* This is an increase from the estimate of \$3,020,000 that was included in the Capital Program for FY 1998/99.

ACTIONS AND MILESTONES

- Complete structural seismic analysis by November 1999
- Complete final design for all projects by January 2000
- Award construction contract for sludge collection system replacement by May 2000
- Complete Program by June 2001

CEQA COMPLIANCE / ENVIRONMENTAL DOCUMENTATION

The activities proposed for the Weymouth Rehabilitation Program are categorically exempt under the provision of the California Environmental Quality Act (CEQA) as Class One projects pursuant to State CEQA Guidelines Section No. 15301.

DETAILED REPORT

The F. E. Weymouth Filtration Plant (Weymouth) was constructed in the late 1930s and operated continuously since 1941. In recent years, the plant has experienced flow restrictions, increased equipment downtime, and inefficient operations due to aging equipment which suffers frequent breakdowns. Critical plant equipment and features need rehabilitation or upgrading to return the facility to more reliable, efficient, and safer operations.

The Rehabilitation Program includes: replacing badly deteriorated sludge collection systems for sedimentation basins 3 and 4; replacing flow control pumps due to extensive wear from continuous start-stop operations and general equipment corrosion; replacing obsolete water quality sampling pumps and their undersized transport lines; upgrading the existing coal removal facility that is experiencing frequent pipeline blockages and excessive maintenance and downtime; upgrading the filters foam abatement spray system, which is limited by low-water pressure and the number of spray nozzles; refurbishing the corroded and buckling floor hatches and steel floor frames in the plant's two filter buildings to eliminate a safety hazard; and conducting a seismic assessment study of key plant structures to determine their structural integrity.

It is proposed to proceed with design, purchase of equipment, and construction to complete the recommended rehabilitation projects to restore the Weymouth treatment plant to more reliable, efficient, and safer operations. The proposed work will be accomplished by Metropolitan forces and by construction contract subject to Board approval.

The total estimated cost of this program is \$5,790,000, including contingencies. This estimate reflects an increase of \$2,770,000 from the Capital Program for Fiscal Year 1998/99, due to incomplete information at the time the current capital program was prepared. The estimate of all cost in advance of award of a construction contract is \$2,860,000. A breakdown of these costs is contained in the Financial Statement on (Attachment A).

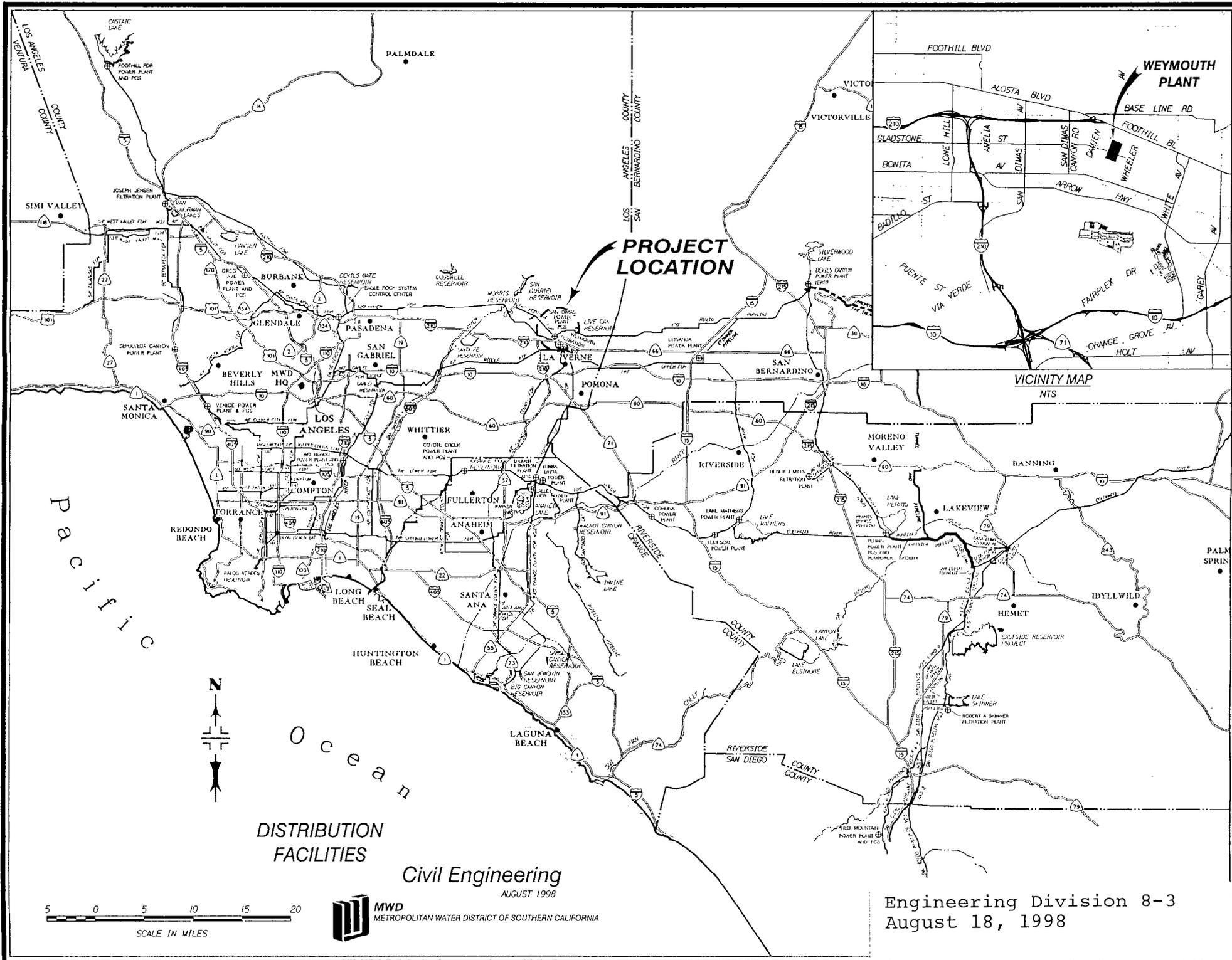
DWC/bm:rev9
(Weymouth Rehab Program)
(O:\Eng\102929\Wyrehab2.doc)

Attachment(s)

Financial Statement
 (Capital Program No. 97813-A)

A breakdown of Board Action No. 1 for Appropriation No. 15345 to finance the estimated cost for the Weymouth Filtration Plant Rehabilitation Program is as follows:

Program Summary	Board Action No. 1
Labor:	
Engineering Division	
Project Management	\$ 70,000
Engineering Studies and Preliminary Design	65,000
Final Design	240,000
Construction Support	40,000
Contracts Administration, Specifications and Estimating	40,000
Soils and Concrete/Corrosion Engineering	15,000
Operations Division	
Controls Systems	20,000
District Forces Construction	430,000
Water Quality Division	<u>10,000</u>
Total Labor	\$ 930,000
Materials and Supplies	\$ 830,000
Incidental Expenses	25,000
Operating Equipment	120,000
Administrative Overhead	580,000
Contingency	<u>375,000</u>
Program Total	\$2,860,000
 Source of Funds: Pay-As-You-Go Fund	
Capital Program for Fiscal Year 1998/99:	
Total Program Estimate:	\$3,020,000
Program Estimate for FY 1998/99	\$1,135,100
 Projected Expenditure of Funds:	
Through FY 1998/99	\$ 750,000
FY 1999/00	1,480,000
FY 2000/01	2,660,000
FY 2001/02	100,000
Contingency	<u>800,000</u>
Total	\$5,790,000



DISTRIBUTION FACILITIES

Civil Engineering

AUGUST 1998



MWD
METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

Engineering Division 8-3
August 18, 1998