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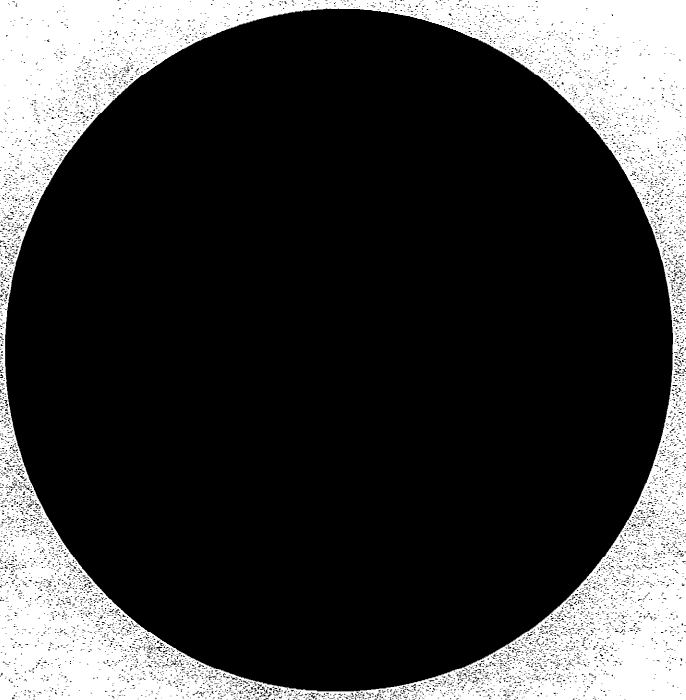


Document Seperator Sheet

This sheet identifies the beginning of a document section titled:

BL-7-2

APPROVED
By the Board of Directors of
The Metropolitan Water District
of Southern California
at its meeting held

SEP 12 1995

41572

MWD

METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

EXECUTIVE SECRETARY

7-2

August 29, 1995

To: Board of Directors (Engineering and Operations Committee—Action)
(Finance and Insurance Committee—Action)

From: General Manager

Subject: Appropriation No. 717 in the Amount of $ 680,000 to Expend Budgeted Funds to Finance All Estimated Costs for Improvement of the Lake Perris Pumpback Facility

RECOMMENDATION:

That the General Manager be authorized to have all work performed for Improvement of the Lake Perris Pumpback Facility.

Authorize Appropriation No. 717 in the amount of $ 680,000 from the Pay-As-You-Go Fund , to expend budgeted funds to finance all estimated costs for improvement of the Lake Perris Pumpback Facility.

John R. Wodraska
General Manager

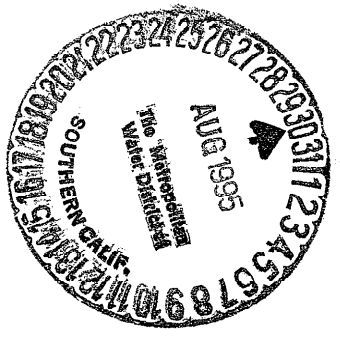
Submitted by:

Gary M. Snyder
Chief Engineer

Concur:

for John R. Wodraska
General Manager

(Jim:aj/08175)
(perris-3.doc)
Attachment


SOUTHERN CALIF.
The Metropolitan
Water District
AUG 1995

CAPITAL FUNDING REQUEST

PROJECT NAME:	LAKE PERRIS PUMPBACK IMPROVEMENT		
APPROPRIATION NO.: 717	**FUNDING REQUEST NO.:** NEW		**AMOUNT:** $ 680,000
SOURCE OF FUNDS:	PAY-AS-YOU-GO FUND		
FY 95-96 BUDGET: NO ☐ YES ☒ *SEE ATTACHMENT A	@$1,443,800	**Capital Program**	**Page No. Reference:** 1

Project Justification and Type:

- ☒ meet water demands
- ☐ mandated by law
- ☐ asset protection/risk mgt.
- ☐ cost avoidance
- ☐ Other_____

- ☐ new facility
- ☒ improvement
- ☐ replacement
- ☐ expansion

PROJECT DESCRIPTION :

Completion of construction of Expansion No. 2 of the Henry J. Mills Filtration Plant is anticipated in October, 1996. With completion of the expansion, the Mills plant will have a capacity of 500 cfs. The plant receives its major source of raw water from DWR's Santa Ana Valley Pipeline (SAVPL). Its only other source of raw water is through the Perris Pumpback Facility. The Pumpback Facility uses four 700 HP electric-driven pumps, and 500 HP and 1000 HP diesel-driven emergency standby pumps to push water northerly up the SAVPL to the Mills plant when the upper reach of the SAVPL is out of service. Power to operate the four electric-driven pumps is currently supplied from a single source.

Currently, the Pumpback Facility can supply about 150 cfs of non-emergency water (without the diesel-driven pumps) from Lake Perris or 95 cfs from the Colorado River Aqueduct. Due to concerns regarding the availability of State Project water during planned or unplanned outages of the SAVPL, a study to provide an alternative supply of water to the Mills plant was performed. Flow Science, Inc. assisted the District staff in hydraulic analyses in support of the study. The study resulted in a downsizing of the project from an estimated $8.1 million in the Fiscal Year 1994/95 Capital Program to $2.9 million in the Fiscal Year 1995/96 Capital Program. Additionally, by applying value engineering principles and techniques, it was determined that the existing Pumpback Facility could meet present and future needs for at least five years, that a proposed discharge pipeline could be eliminated, and that installation of additional electric pumps, motors, and surge tank could be delayed. The delay in installation of new electric pumps, motors and surge tank reduces the initial funding required to the requested $680,000.

It is proposed, based upon the recommendations resulting from the study, to instead increase the electrical reliability of the Pumpback Facility by installing an electrical backup source line from a different substation, and an automatic switchgear which provides switching between two power sources in the event of a power outage from the primary source. Controls and monitoring equipment are proposed to be installed at the Mills plant to remotely control the facility. Metropolitan will perform design, construction and installation with the exception of some electrical construction which will be handled by Southern California Edison, the sole source of power available in this area. Metropolitan will fully test, troubleshoot and commission the final system. Design is anticipated to be complete by December, 1995, with commissioning of the Facility by mid-1996.

Class One: Projects directly related to delivery of water, required for health and safety, or mandated by governmental requirements.

BENEFIT:

The proposed project will increase the reliability of an alternative source of water to the Mills plant in the event of a power outage of the primary electrical supply.

PROJECT PLAN:

PHASE	COST		1994	1995	1996
STUDY	$ 110,000	100% COMPLETE	$110,000 SPENT		
DESIGN	$ 82,000	0% COMPLETE	$0 SPENT		
CONSTRUCTION	$ 400,000	0% COMPLETE	$0 SPENT		
ACCEPTANCE TESTING	$ 10,000	0% COMPLETE	$0 SPENT		
CONTINGENCY	$ 78,000				
TOTAL	**$ 680,000**	**10%** COMPLETE; **$110,000** SPENT			

ALTERNATIVES TO PROPOSED ACTION:

The alternative to this proposed action is to continue to risk having a water supply backup facility that might not be operable if a power grid fails, resulting in decreased system reliability, decreased hours of operation, and the inability to meet treated water demands of member agencies in the Mills service area during a prolonged outage of DWR's Santa Ana Valley Pipeline.

CEQA COMPLIANCE / ENVIRONMENTAL DOCUMENTATION

The proposed action is categorically exempt from the provisions of the California Environmental Quality Act (CEQA) in that it consists of the minor alteration of existing public facilities involving negligible expansion of use beyond that previously existing and the construction of new, small facilities (CEQA State Guidelines, Sections 15301 and 15303).

FINANCIAL ANALYSIS (NEW PROJECTS ONLY)

EVALUATION PERIOD: 1 YEAR

A. PROJECTED COSTS (CAPITAL AND O&M):

	THROUGH FY 94/95	FY 95/96	FY 96/97	OUT YEARS	TOTAL
LABOR	$ 63,000	$ 108,000	$ 0	$ 0	$ 171,000
PROFESSIONAL SERVICES	12,000	0	0	0	12,000
OTHER	35,000	384,000	0	0	419,000
CONTINGENCY	0	78,000	0	0	78,000
TOTAL	$ 110,000	$ 570,000	0	0	$ 680,000

B. PROJECTED SAVINGS:

	FY 94/95	FY 95/96	FY 96/97	OUT YEARS	TOTAL
LABOR/ADDITIVES	$ 0	$ 0	$ 0	$ 0	$ 0
PROFESSIONAL SERVICES	0	0	0	0	0
OTHER	0	0	0	0	0
TOTAL	0	0	0	0	0
C. Difference (B-A)	$(110,000)	$(570,000)	0	0	$(680,000)
D. Cumulative Difference	$(110,000)	$(680,000)	0	0	$(680,000)

Payback Period: N/A Estimated Life of Project: 30 Years

Attachment A

FINANCIAL STATEMENT

(Program No. 5-0143-11)

A breakdown of the costs for design of the Lake Perris Pumpback Improvement is as follows:

Labor:

Study	$ 63,000
Engineering	53,000
Operations	55,000
Total Labor	$ 171,000
Materials and Supplies	$ 85,000
Incidental Expenses	10,000
Professional Services	12,000
Operating Equipment Use/Rental	10,000
Administrative Overhead	94,000
Southern California Edison Contract	220,000
Contingencies	78,000
Project Total	$ 680,000

Projected Expenditure of Funds:

Through Fiscal Year 1994/95	$ 100,000
Fiscal Year 1995/96	580,000
Total	$ 680,000

Source of Funds: Pay-As-You-Go Fund

Capital Program for Fiscal Year 1995/96

(Program No. 5-0143-11)

Total Program Estimate	$ 2,876,200
Program Estimate For Fiscal Year 1995/96	$ 1,443,800

Class One: Projects directly related to delivery of water required for Health and safety, or mandated By Governmental Requirements.

Project Benefit: The proposed project will increase the reliability of an alternative source of water to the Mills plant in the event of a power outage of the primary electrical supply.

JIM:aj/08175
(perris-3.att)