

A. Identification and Coding Information

1. Project Number	Agency Number	Update Code
894832	W-73.12	Change

2. Date: October 1, 2007

7. Pre PDF Pg.No.: 8. Req. Adeq. Pub. Fac.

Revised:

3. Project Name: Potomac WFP Hydropneumatic Surge Tanks

5. Agency: **WSSC**4. Program: **Sanitation** 6. Planning Area: Bi-County**B. Expenditure Schedule (000's)**

Cost Elements	(8) Total	(9) Thru FY '07	(10) Estimate FY '08	(11) Total 6 Years	(12) Year 1 FY '09	(13) Year 2 FY '10	(14) Year 3 FY '11	(15) Year 4 FY '12	(16) Year 5 FY '13	(17) Year 6 FY '14	(18) Beyond 6 Years
Planning, Design & Supervision	3,310	2,993	8	75	50	25					234
Land											
Site Improvements & Utilities											
Construction	9,949	7,211									2,738
Other	310		1	12	8	4					297
Total	13,569	10,204	9	87	58	29					3,269

C. Funding Schedule (000's)

WSSC Bonds	13,569	10,204	9	87	58	29					3,269
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D. Description & Justification**DESCRIPTION**

This project provides for the design and construction of hydropneumatic surge tanks at the Potomac Water Filtration Plant to protect the water distribution system from high and low pressure extremes that result from surge events created by pump trips (power shut-off) at the Plant. Two spherical tanks are needed to serve the Prince George's and Montgomery County Main Zones. This project also includes a 36-inch diameter connection from the main zone piping to the filter backwash system, as recommended by the Potomac WFP Reliability Study, and surge monitoring equipment.

Service Area Montgomery High Pressure Zone HG660, Montgomery Main Pressure Zone HG495, Prince George's Main Pressure Zone HG320

JUSTIFICATION**Plans & Studies**

Project 80 Main Zone Surge Study, Boyle Engineering, Inc.; Hydropneumatic Storage Facility Evaluation (1990); Dr. C. Samuel Martin's - Evaluation of Surge Protection Needs (1992); Phase I Report: Network and Demand Improvements Surge Analysis (1994); Phase II Report: Calibration Scenario Development and Modeling (1994); Letter Reports I, II and III (1995); Potomac WFP Facility Plan (September, 2002).

Cost Change

Costs were increased for inflation.

STATUS Structurally Complete (WSSC Contract Nos. BF7592A88 , BF7592C88).

OTHER

The project scope has remained the same. Hydropneumatic surge control tanks were constructed and placed in service at the Potomac Plant in FY 2007. The effectiveness of these tanks in providing surge control for the Main Zones and the potential need for surge control in the Montgomery High Zone need to be evaluated. Expenditures shown in FY 2009 and FY 2010 provide for surge monitoring equipment for long term monitoring. Depending on the results of the monitoring, additional surge control measures may be recommended. Costs beyond six years are for surge tanks for the Montgomery High Zone, HG 660, if needed. The estimated completion date shown in Block G refers to the completion date of the hydropneumatic surge control tanks.

COORDINATION

Montgomery County Government and Montgomery County Department of Environmental Protection.

NOTE This project supports 100% System Improvement.

E. Annual Operating Budget Impact (000's) FY of Impact

Program Costs	Staff
	Other
Facility Costs	Maintenance
	Debt Service	1087
Total Costs.....		1087
Impact on Water or Sewer Rate.....	2¢	08

F. Approval and Expenditure Data (000's)

Date First in Capital Program	FY 89
Date First Approved	FY 89
Initial Cost Estimate	6,581
Cost Estimate Last FY	12,982
Present Cost Estimate	13,569
Approved Request, Last FY	
Total Expenditures & Encumbrances	10,204
Approval Request FY 09	58
Supplemental Approval Request Current FY (08)	

G. Status Information

Land Status:	Not determined
% Project Completion:	C-100%
Est. Completion Date:	October 2006

H. Map Map Reference Code:

MAP NOT AVAILABLE