

Patuxent Raw Water Pipeline

A. Identification and Coding Information			PDF Date	October 1, 2021	Pressure Zones	Prince George's Main HG320A
Agency Number	Project Number	Update Code	Date Revised		Drainage Basins	
W - 000172.07	063804	Change			Planning Areas	Bi-County

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'21	Estimate FY'22	Total 6 Years	Year 1 FY'23	Year 2 FY'24	Year 3 FY'25	Year 4 FY'26	Year 5 FY'27	Year 6 FY'28	Beyond 6 Years
Planning, Design & Supervision	3,144	2,944	90	110	100	7	3				
Land	306	306									
Construction	25,846	11,346	6,500	8,000	7,300	500	200				
Other	1,470		659	811	740	51	20				
Total	30,766	14,596	7,249	8,921	8,140	558	223				

C. Funding Schedule (000's)

WSSC Bonds	30,766	14,596	7,249	8,921	8,140	558	223				
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D. Description & Justification

DESCRIPTION

This project provides for the planning, design, and construction of approximately 2.5 miles of new 48-inch diameter raw water pipeline from the Rocky Gorge Raw Water Pumping Station to the Patuxent Water Filtration Plant (Plant), cleaning of the existing water lines, and replacement of valves.

BENEFIT

System Reliability: This project will improve service reliability through fewer and shorter service interruptions.; System Capacity: This project will enhance existing infrastructure by building additional capacity in order to meet existing and/or future demand.; Infrastructure Reinvestment: This project replaces existing infrastructure that has exceeded its useful life.

JUSTIFICATION

The existing raw water supply facilities are hydraulically limited to 72 MGD with all pumps running at the Rocky Gorge Pumping Station. In order to convey more than 72 MGD of raw water, a new raw water pipeline is required. A fourth raw water pipeline from the Rocky Gorge Pumping Station to the Patuxent Water Filtration Plant and modification/expansion of the Rocky Gorge Pumping Station will provide a firm raw water pumping transmission capacity of 110 MGD. These improvements, in conjunction with expansion of the Patuxent Water Filtration Plant, will give the Plant a firm nominal capacity of 72 MGD, with an emergency capacity of 110 MGD.

Patuxent WFP Facility Plan (April 1997); In-House Study (April 2002).

COST CHANGE

The schedule and expenditure projections were revised based upon actual bids and updated material cost information.

OTHER

The project scope has remained the same. The Rocky Gorge Valve Replacement and the cleaning of existing raw water pipelines are 100% complete. The new raw water pipeline is currently in construction. The schedule and expenditure projections for the new raw water pipeline shown in Block B above are based upon actual bids received. The project has been delayed due to a lengthy permit and right-of-way acquisition process. Due to County permitting requirements the project design and construction schedule was split into two phases. As with any construction project, areas disturbed by construction will be restored. This restoration includes paving of impacted roads in accordance with Prince George's County Policy and Specifications for Utility Installation and Maintenance Manual (Section 4.7.2).

COORDINATION

Coordinating Agencies: Baltimore Gas & Electric; Interstate Commission on the Potomac River Basin; Local Community Civic Associations;(West Laurel Civic Association); Maryland Department of the Environment; Maryland-National Capital Park & Planning Commission; Montgomery County Government; Prince George's County Government

Coordinating Projects: W - 000172.08 - Rocky Gorge Pump Station Upgrade

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance	\$391	26
Debt Service	\$1,779	26
Total Cost	\$2,170	26
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

Date First in Program	FY'06
Date First Approved	FY'03
Initial Cost Estimate	18,750
Cost Estimate Last FY	34,284
Present Cost Estimate	30,766
Approved Request Last FY	9,515
Total Expense & Encumbrances	14,596
Approval Request Year 1	8,140

G. Status Information

Land Status	Land Acquired
Project Phase	Construction
Percent Complete	5 %
Estimated Completion Date	June 2025

Growth	
System Improvement	100%
Environmental Regulation	
Population Served	
Capacity	

H. Map

MAP NOT AVAILABLE