

Patuxent Raw Water Pipeline

A. Identification and Coding Information			PDF Date	October 1, 2020	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'20	Estimate FY'21	Total 6 Years	Year 1 FY'22	Year 2 FY'23	Year 3 FY'24	Year 4 FY'25	Year 5 FY'26	Year 6 FY'27	Beyond 6 Years
Planning, Design & Supervision	3,593	3,243	50	300	150	100	50				
Land	306	306									
Construction	28,514	10,162	4,187	14,165	8,500	3,090	2,575				
Other	1,871		424	1,447	865	319	263				
Total	34,284	13,711	4,661	15,912	9,515	3,509	2,888				

C. Funding Schedule (000's)

WSSC Bonds	34,284	13,711	4,661	15,912	9,515	3,509	2,888				
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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, cleaning of the existing water lines, and replacement of valves.

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 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

Not applicable.

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 design. Expenditure and schedule estimates for the new raw water pipeline may change based upon design constraints and permitting issues. 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	\$387	25
Debt Service	\$2,230	25
Total Cost	\$2,617	25
Impact on Water and Sewer Rate	\$0.05	25

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	30,901
Present Cost Estimate	34,284
Approved Request Last FY	9,570
Total Expense & Encumbrances	13,711
Approval Request Year 1	9,515

G. Status Information

Land Status	Land Acquired
Project Phase	Design
Percent Complete	100 %
Estimated Completion Date	July 2023

Growth	
System Improvement	100%
Environmental Regulation	
Population Served	
Capacity	

H. Map

MAP NOT AVAILABLE