

A. Identification and Coding Information

1. Project Number	Agency Number	Update Code
934855	W-127.01	Change

2. Date: October 1, 2009

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

Revised:

5. Agency: **WSSC**

3. Project Name: Bi-County Water Tunnel

4. Program: **Sanitation** 6. Planning Area: Bi-County

B. Expenditure Schedule (000's)

Cost Elements	(8) Total	(9) Thru FY '09	(10) Estimate FY '10	(11) Total 6 Years	(12) Year 1 FY '11	(13) Year 2 FY '12	(14) Year 3 FY '13	(15) Year 4 FY '14	(16) Year 5 FY '15	(17) Year 6 FY '16	(18) Beyond 6 Years
Planning, Design & Supervision	26,618	13,696	3,359	9,563	3,460	3,383	2,202	518			
Land											
Site Improvements & Utilities											
Construction	128,237		32,000	96,237	35,000	34,000	24,000	3,237			
Other	14,116		3,536	10,580	3,846	3,738	2,620	376			
Total	168,971	13,696	38,895	115,380	42,306	41,121	28,822	4,131			

C. Funding Schedule (000's)

	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
WSSC Bonds	700			700		400	300				
SDC	168,271	13,696	38,895	115,880	42,306	40,721	28,522	4,131			

D. Description & Justification

DESCRIPTION

This project provides for the design and construction of approximately 28,400 feet of 84-inch diameter water main between the intersection of Tuckerman Lane and Route I-270 and the western terminus of the Bi-County Water Tunnel near the area where Rock Creek crosses the Capital Beltway (Maryland Route 495). The project will be constructed as a deep tunnel, minimizing community and environmental impacts. The project also includes relining 450 feet of existing 96-inch PCCP with 84-inch steel pipe at the I-270 connection between this pipeline and the new tunnel.

Service Area Montgomery Main Pressure Zone HG495, Prince George's High Pressure Zone HG450

JUSTIFICATION

Plans & Studies

Montgomery and Prince George's Main Zone Facility Plan, Black and Veatch, Inc. (October, 1990); Technical Memoranda #1, 2, & 3 (Draft), Louis Berger & Associates (1997); Updated Water Demand Projections (dated April 6, 2001); and the General Plan. Final Alignment Report, Black and Veatch, Inc. (July, 2005).

Specific Data

This project will significantly increase transmission capacity from the Potomac Water Filtration Plant to the Montgomery County Main Zone and Prince George's County. The alignment study completed in July 2005 recommended that the water main be constructed as a pipeline with a deep rock tunnel from 90 to 250 feet below the ground surface.

Cost Change

The cost increase reflects current design, construction management and construction contract amounts.

STATUS Final Design (WSSC Contract Nos. BL9972A94 , BL9972C94 , BL9972B94).

OTHER

The project scope remains the same. Expenditures shown in Block B above are definitive and are the sum of the design services, construction management services and construction contract amounts. In late 2005, both Councils reviewed the results of the detailed alignment study and agreed upon the final alignment and construction method. Substantial completion of the tunnel is expected in June 2013. Funding shown in FY'14 is for punch-list items and site/landscaping restoration.

As part of the permit requirements for work within Cabin John and Rock Creek Parks, M-NCP&PC calls for stream restoration along Old Farm Creek. This work will be handled under a separate contract with costs tracked under a separate contract number. The relining of 450 feet of existing 96-inch PCCP, estimated to cost \$700,000, is being tracked under a separate contract and is not subject to SDC funding.

E. Annual Operating Budget Impact (000's)

Program Costs	Staff	Other	Maintenance	Debt Service	FY of Impact
Program Costs
Facility Costs			329	61	15
Total Costs			390		15
Impact on Water or Sewer Rate					

F. Approval and Expenditure Data (000's)

Date First in Capital Program	FY 93
Date First Approved	FY 93
Initial Cost Estimate	63,000
Cost Estimate Last FY	168,775
Present Cost Estimate	168,971
Approved Request, Last FY	40,403
Total Expenditures & Encumbrances	13,696
Approval Request FY 11	42,306
Supplemental Approval Request Current FY (10)	

G. Status Information

Land Status: Site selected
 % Project Completion: C-0%
 Est. Completion Date: June 2013

H. Map Map Reference Code:

SEE ATTACHED MAP

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D. DESCRIPTION & JUSTIFICATION (CONT.)

Agency Number: W - 127.01

Project Name: BI-County Water Tunnel

COORDINATION

Montgomery County Government, Prince George's County Government, Maryland-National Capital Park & Planning Commission (Mandatory Referral submissions are approved), Maryland Department of Natural Resources and Maryland State Department of Transportation.

NOTE This project supports 99% Growth and 1% System Improvement.

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