

A. Identification and Coding Information

1. Project Number

Agency Number

Update Code

934855

W-127.01

Change

3. Project Name:

Bi-County Water Tunnel

4. Program:

Sanitation

2. Date:

October 1, 2013

Revised:

7. Pre PDF Pg.No.:

8. Req. Adeq. Pub. Fac.

5.Agency:

WSSC

6. Planning Area:

Bi-County

E. Annual Operating Budget Impact (000's)			FY of Impact
Program Costs	Staff .....		....
	Other .....		....
Facility Costs	Maintenance .....	329	....
	Debt Service .....	61	....
Total Costs.....		390	....
Impact on Water or Sewer Rate.....			....

B. Expenditure Schedule (000's)											
Cost Elements	(8) Total	(9) Thru FY '13	(10) Estimate FY '14	(11) Total 6 Years	(12) Year 1 FY '15	(13) Year 2 FY '16	(14) Year 3 FY '17	(15) Year 4 FY '18	(16) Year 5 FY '19	(17) Year 6 FY '20	(18) Beyond 6 Years
Planning, Design & Supervision	26,239	23,056	2,000	1,183	1,183						
Land											
Site Improvements & Utilities											
Construction	117,737	95,790	20,947	1,000	1,000						
Other	2,513		2,295	218	218						
Total	146,489	118,846	25,242	2,401	2,401						

C. Funding Schedule (000's)											
WSSC Bonds	700	690	10								
SDC	145,789	118,156	25,232	2,401	2,401						

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** Prince George's High Pressure Zone HG450A, Montgomery Main Pressure Zone HG495A

JUSTIFICATION

Plans & Studies

Montgomery and Prince George's Main Zone Facility Plan, Black and Veatch, Inc. (October, 1990); Technical Memoranda #s1, 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 decrease reflects the latest available estimates.

STATUS

Under Construction (WSSC Contract Nos. BL9972A94 , BL9972B94 , BL9972C94).

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 2014. Funding shown in FY'15 includes 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 separately. The relining of 450 feet of existing 96-inch diameter PCCP, at a cost of \$700,000, is not subject to SDC funding.

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

150,975

Present Cost Estimate

146,489

Approved Request, Last FY

14,442

Total Expenditures & Encumbrances

118,846

Approval Request FY 15

2,401

Supplemental Approval Request  
Current FY (14)

G. Status Information

Land Status:

Site selected

% Project Completion:

C-80%

Est. Completion Date:

July 2015

H. Map

Map Reference Code:

SEE ATTACHED MAP

**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.