

<b>A. Identification and Coding Information</b>			2. Date: October 1, 2011	7. Pre PDF Pg.No.: 8. Req. Adeq. Pub. Fac.
1. Project Number	Agency Number	Update Code	Revised:	
073800	S-53.21	Change		
3. Project Name: Seneca WWTP Enhanced Nutrient Removal			5. Agency: <b>WSSC</b>	
4. Program: <b>Sanitation</b>			6. Planning Area: Lower Seneca P.A. 18	

B. Expenditure Schedule (000's)											
Cost Elements	(8) Total	(9) Thru FY '11	(10) Estimate FY '12	(11) Total 6 Years	(12) Year 1 FY '13	(13) Year 2 FY '14	(14) Year 3 FY '15	(15) Year 4 FY '16	(16) Year 5 FY '17	(17) Year 6 FY '18	(18) Beyond 6 Years
Planning, Design & Supervision	3,765	2,202	313	1,250	625	547	78				
Land											
Site Improvements & Utilities											
Construction	8,019		3,207	4,812	4,010	401	401				
Other	1,437		528	909	695	142	72				
<b>Total</b>	<b>13,221</b>	<b>2,202</b>	<b>4,048</b>	<b>6,971</b>	<b>5,330</b>	<b>1,090</b>	<b>551</b>				

C. Funding Schedule (000's)											
WSSC Bonds	8,198	1,365	2,510	4,323	3,305	676	342				
State Aid	5,023	837	1,538	2,648	2,025	414	209				

#### D. Description & Justification

##### DESCRIPTION

2012 This project provides for the planning, design, and construction of improvements at the Seneca WWTP necessary to meet the requirements of the Maryland Department of the Environment (MDE) Enhanced Nutrient Removal (ENR) Program at 20 MGD. The recommendations include modification of the existing basins to Flexible Modified Ludzack-Ettinger (MLE) mode, methanol storage and distribution system, upgrade of the existing 13 filters, and expansion of the filter gallery to include 3 new sand filters designed for phosphorous removal down to the permit goal of 0.18 mg/l at the maximum month flow of 33 MGD (design flow is 26 MGD).

**Service Area** Seneca Creek Drainage Basin

##### JUSTIFICATION

###### Plans & Studies

ENR Alternatives for the Seneca Wastewater Treatment Plant, Gannett Fleming (June 2005); Maryland Department of the Environment, Feasibility Study Approval Letter (July 27, 2005); WSSC Preliminary Engineering Report (September 2008); Design Criteria Report (November 2008).

###### Specific Data

The Bay Restoration Fund Enhanced Nutrient Removal (ENR) Program's purpose is to meet the commitments under the 2000 Chesapeake Bay Agreement. Reductions of nutrient pollutants from all sources including sewage treatment plants are necessary. The ENR strategy builds on the success of the Biological Nutrient Removal (BNR) Program already in place. The MDE is using the Bay Restoration Fund to upgrade the 66 major wastewater treatment plants which discharge to the Chesapeake Bay with ENR technologies. Once upgraded, these plants are expected to reduce nitrogen and phosphorus in the wastewater down to 3 mg/l total nitrogen and 0.3 mg/l total phosphorus, achieving approximately one-third of the needed reduction under the Chesapeake Bay 2000 Agreement. Other pollutants will continue to be reduced by more than 90%.

###### Cost Change

The cost estimate was revised downward to reflect the current construction cost estimate.

**STATUS** Under Construction (WSSC Contract Nos. CD4260A05, CD4260C05).

##### OTHER

The project scope has remained the same. The expenditures and schedule projections shown in Block B are based upon bids received. The funding schedule reflects the final cost sharing agreement with MDE.

E. Annual Operating Budget Impact (000's)				FY of Impact
Program Costs	Staff .....	.....		
	Other .....	.....		
Facility Costs	Maintenance .....	.....		
	Debt Service .....	583	.....	16
Total Costs.....		583	.....	16
Impact on Water or Sewer Rate.....		1¢	.....	16

#### F. Approval and Expenditure Data (000's)

Date First in Capital Program	FY 07
Date First Approved	FY 07
Initial Cost Estimate	22,862
Cost Estimate Last FY	14,618
Present Cost Estimate	13,221
Approved Request, Last FY	4,026
Total Expenditures & Encumbrances	2,202
Approval Request FY 13	5,330
Supplemental Approval Request Current FY (12)	

#### G. Status Information

Land Status: No land or R/W required  
 % Project Completion: C-0%  
 Est. Completion Date: January 2015

#### H. Map Map Reference Code:

**MAP NOT AVAILABLE**

D. DESCRIPTION & JUSTIFICATION (CONT.)

Agency Number: S - 53.21

Project Name: Seneca WWTP Enhanced Nutrient Removal

COORDINATION

Montgomery County Government, Montgomery County Department of Environmental Protection, Maryland Department of the Environment and WSSC Project S-53.22, Seneca WWTP Expansion, Part 2.

NOTE This project supports 100% Environmental Regulation.