

**A. Identification and Coding Information**

|                   |               |             |
|-------------------|---------------|-------------|
| 1. Project Number | Agency Number | Update Code |
| 083802            | S-53.22       | Change      |

2. Date: October 1, 2007

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

Revised:

5. Agency: **WSSC**

3. Project Name: Seneca WWTP Expansion, Part 2

4. Program: **Sanitation** 6. Planning Area: Lower Seneca P.A. 18**B. Expenditure Schedule (000's)**

| Cost Elements                  | (8)<br>Total  | (9)<br>Thru<br>FY '07 | (10)<br>Estimate<br>FY '08 | (11)<br>Total<br>6 Years | (12)<br>Year 1<br>FY '09 | (13)<br>Year 2<br>FY '10 | (14)<br>Year 3<br>FY '11 | (15)<br>Year 4<br>FY '12 | (16)<br>Year 5<br>FY '13 | (17)<br>Year 6<br>FY '14 | (18)<br>Beyond<br>6 Years |
|--------------------------------|---------------|-----------------------|----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------|
| Planning, Design & Supervision | <b>4,097</b>  |                       | 1,200                      | <b>2,897</b>             | 1,400                    | 870                      | 540                      | 87                       |                          |                          |                           |
| Land                           |               |                       |                            |                          |                          |                          |                          |                          |                          |                          |                           |
| Site Improvements & Utilities  |               |                       |                            |                          |                          |                          |                          |                          |                          |                          |                           |
| Construction                   | <b>17,991</b> |                       |                            | <b>17,991</b>            |                          | 8,500                    | 9,000                    | 491                      |                          |                          |                           |
| Other                          | <b>2,209</b>  |                       | 120                        | <b>2,089</b>             | 140                      | 937                      | 954                      | 58                       |                          |                          |                           |
| <b>Total</b>                   | <b>24,297</b> |                       | <b>1,320</b>               | <b>22,977</b>            | <b>1,540</b>             | <b>10,307</b>            | <b>10,494</b>            | <b>636</b>               |                          |                          |                           |

**C. Funding Schedule (000's)**

|     |               |  |       |               |       |        |        |     |  |  |  |
|-----|---------------|--|-------|---------------|-------|--------|--------|-----|--|--|--|
| SDC | <b>24,297</b> |  | 1,320 | <b>22,977</b> | 1,540 | 10,307 | 10,494 | 636 |  |  |  |
|-----|---------------|--|-------|---------------|-------|--------|--------|-----|--|--|--|

**D. Description & Justification****DESCRIPTION**

This project provides for the planning, design, and construction of improvements at the Seneca WWTP necessary to meet the projected growth in this service area while adhering to the requirements of MDE's Environmental Nutrient Removal (ENR) Program at 26 MGD (an increase from 20 MGD). The preliminary recommendation is to provide an additional aeration basin, an additional 150-foot clarifier, expansion of the filter gallery to include four 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 26 MGD), and sludge system improvements. The sludge improvements consist of an additional centrifuge and sludge conveyance modifications which will provide system redundancy. The electrical distribution system will also be evaluated.

**Service Area** Seneca Creek Drainage Basin

**JUSTIFICATION****Plans & Studies**

ENR Alternatives for the Seneca Wastewater Treatment Plant, Gannett Fleming (June, 2005)

**Specific Data**

The Maryland Department of the Environment introduced the ENR Strategy in May, 2003, requiring Maryland wastewater plants to be upgraded to the "limits of technology" for nutrient removal. The ENR Strategy calls for eventual enforceable limits and more stringent goals regarding effluent concentrations of nitrogen and phosphorous. The ENR strategy also requires the creation of an ENR grant program to provide a funding mechanism for wastewater treatment plant upgrades.

**Cost Change**

The cost has increased significantly for this project due to: differences between initial planning level estimates and preliminary design cost proposals; new construction estimates relating to solids improvements (not included in the original estimate); electrical improvements; a larger secondary clarifier; and inflation.

**STATUS** Preliminary Design

**OTHER**

The project scope has remained the same. Expenditures shown in Block B are planning level estimates only and may change further based upon site specific conditions, design constraints and negotiations with the Maryland Department of the Environment.

**COORDINATION**

Montgomery County Government, Montgomery County Department of Environmental Protection, Maryland Department of the Environment and WSSC Project S-53.21, Seneca WWTP Enhanced Nutrient Removal.

**NOTE** This project supports 100% Growth.

**E. Annual Operating Budget Impact (000's)**

FY of Impact

|                                    |                    |      |
|------------------------------------|--------------------|------|
| Program Costs                      | Staff .....        | .... |
|                                    | Other .....        | .... |
| Facility Costs                     | Maintenance .....  | .... |
|                                    | Debt Service ..... | .... |
| Total Costs.....                   |                    | .... |
| Impact on Water or Sewer Rate..... |                    | .... |

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

|  |        |
|--|--------|
| Date First in Capital Program                    | FY 08  |
| Date First Approved                              | FY 07  |
| Initial Cost Estimate                            | 16,478 |
| Cost Estimate Last FY                            | 16,478 |
| Present Cost Estimate                            | 24,297 |
| Approved Request, Last FY                        | 1,786  |
| Total Expenditures & Encumbrances                |        |
| Approval Request FY 09                           | 1,540  |
| Supplemental Approval Request<br>Current FY (08) |        |

**G. Status Information**

|                       |                          |
|-----------------------|--------------------------|
| Land Status:          | Public/Agency owned land |
| % Project Completion: | D-0%                     |
| Est. Completion Date: | August 2011              |

**H. Map Map Reference Code:****MAP NOT AVAILABLE**