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|--|---------------|-------------|-----------------------------|--------------------|-------------------------|
| A. Identification and Coding Information | | | 2. Date: October 1, 2011 | 7. Pre PDF Pg.No.: | 8. Req. Adeq. Pub. Fac. |
| 1. Project Number | Agency Number | Update Code | | | |
| 973817 | S-22.08 | Change | | | |
| 3. Project Name: Blue Plains WWTP: Biological Nutrient Removal | | | 5. Agency: WSSC | | |
| 4. Program: Sanitation | | | 6. Planning Area: Bi-County | | |
| 2. Date: October 1, 2011 | | | 7. Pre PDF Pg.No.: | | |
| Revised: May 10, 2012 | | | 8. Req. Adeq. Pub. Fac. | | |

| E. Annual Operating Budget Impact (000's) | | | FY of Impact |
|---|--------------------|------|--------------|
| Program Costs | Staff | | |
| | Other | | |
| Facility Costs | Maintenance | | |
| | Debt Service | 3628 | 17 |
| Total Costs..... | | 3628 | 17 |
| Impact on Water or Sewer Rate..... | | 8¢ | 17 |

| 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 | 18,568 | 15,504 | 1,049 | 2,015 | 1,187 | 554 | 274 | | | | |
| Land | | | | | | | | | | | |
| Site Improvements & Utilities | | | | | | | | | | | |
| Construction | 68,172 | 47,857 | 3,530 | 16,785 | 9,267 | 5,019 | 2,191 | 308 | | | |
| Other | 235 | | 46 | 189 | 105 | 56 | 25 | 3 | | | |
| Total | 86,975 | 63,361 | 4,625 | 18,989 | 10,559 | 5,629 | 2,490 | 311 | | | |

| C. Funding Schedule (000's) | | | | | | | | | | | |
|-----------------------------|--------|--------|-------|-------|-------|-------|-------|-----|--|--|--|
| WSSC Bonds | 41,098 | 29,941 | 2,185 | 8,972 | 4,989 | 2,660 | 1,177 | 146 | | | |
| State Aid | 43,490 | 31,681 | 2,313 | 9,496 | 5,280 | 2,815 | 1,245 | 156 | | | |
| City of Rockville | 2,387 | 1,739 | 127 | 521 | 290 | 154 | 68 | 9 | | | |

D. Description & Justification

DESCRIPTION

This project provides funding for WSSC's share of the Blue Plains Biological Nutrient Removal Pilot Project and BNR Permanent Facility design and construction. The project includes modifications to the nitrification basins, methanol storage and feed facilities, a control building, addition of fine bubble diffusers, and improvements to the nitrification facilities (Phase II). This project is stipulated in the 1995 Consent Decree signed by the District of Columbia and the United States Department of Justice.

Service Area Bi-County Area **Capacity** 370 MGD

JUSTIFICATION

Plans & Studies
Porter, MacNamee & Seely Study (1992); Civil Action No. 90-163; Civil Action No. 84-2842 JGP; the DCWASA Master Plan (1998); and the DCWASA Approved FY 2011 - FY 2020 Capital Improvement Program (January 5, 2012).

Specific Data
The initial \$12.1 million Pilot Project was planned as a phased, four year, half-plant trial. For the Pilot, portions of the nitrification basins were converted to anoxic zones with methanol added as the carbon source. After the Pilot Project proved successful in the first two years, the third and fourth years were not required and the design and construction of permanent BNR facilities commenced. The Consent Decree acknowledged that applying this technology was experimental.

Cost Change
Cost increase is based upon actual expenditure data as Nitrification/Denitrification facilities progress through construction.

STATUS Under Construction

OTHER
The project scope has remained the same. The expenditure schedule shown above reflects the cost of permanent BNR facilities as required under the Consent Decree. Phase I and portions of Phase II are complete. The Maryland Department of the Environment (MDE) has, by agreement, committed to providing 50% grant funding for eligible costs.

COORDINATION
City of Rockville (responsible for a share of funding), Maryland Department of the Environment and District of Columbia Water & Sewer Authority (responsible for design and construction).

NOTE This project supports 100% Environmental Regulation.

F. Approval and Expenditure Data (000's)

Date First in Capital Program FY 96

Date First Approved FY 96

Initial Cost Estimate 12,189

Cost Estimate Last FY 84,265

Present Cost Estimate 86,975

Approved Request, Last FY 8,264

Total Expenditures & Encumbrances 63,361

Approval Request FY 13 10,559

Supplemental Approval Request Current FY (12)

G. Status Information

Land Status: Not applicable

% Project Completion: C-90%

Est. Completion Date: FY 2016

H. Map Map Reference Code:

MAP NOT AVAILABLE