

A. Identification and Coding Information

1. Project Number: 973817 | Agency Number: S-22.08 | Update Code: Change

2. Date: October 1, 2008 | Revised: May 7, 2009

3. Project Name: Blue Plains WWTP: Biological Nutrient Removal

4. Program: Sanitation | 5. Agency: WSSC | 6. Planning Area: Bi-County

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

B. Expenditure Schedule (000's)

Cost Elements	(8) Total	(9) Thru FY '08	(10) Estimate FY '09	(11) Total 6 Years	(12) Year 1 FY '10	(13) Year 2 FY '11	(14) Year 3 FY '12	(15) Year 4 FY '13	(16) Year 5 FY '14	(17) Year 6 FY '15	(18) Beyond 6 Years
Planning, Design & Supervision	12,585	5,474	1,603	5,508	2,387	1,922	1,038	161			
Land											
Site Improvements & Utilities											
Construction	75,647	20,800	14,855	39,992	18,746	14,349	6,255	629	13		
Other	883	263	165	455	211	163	73	8			
Total	89,115	26,537	16,623	45,955	21,344	16,434	7,366	798	13		

C. Funding Schedule (000's)

	(8) Total	(9) Thru FY '08	(10) Estimate FY '09	(11) Total 6 Years	(12) Year 1 FY '10	(13) Year 2 FY '11	(14) Year 3 FY '12	(15) Year 4 FY '13	(16) Year 5 FY '14	(17) Year 6 FY '15	(18) Beyond 6 Years
WSSC Bonds	42,111	12,540	7,855	21,716	10,086	7,766	3,481	377	6		
State Aid	44,559	13,269	8,312	22,978	10,672	8,217	3,683	399	7		
City of Rockville	2,445	728	456	1,261	586	451	202	22			

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 WASA Master Plan (1998); and the DC-WASA Approved FY 2008 - FY 2017 Capital Improvement Program information (January, 2009).

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
The cost increase is due to the transfer of the Nitrification/Denitrification Facilities initial upgrade and Lower Priority Work projects from project S-22.06, Blue Plains WWTP: Liquid Train.

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
Maryland Department of the Environment and District of Columbia Water & Sewer Authority (responsible for design and construction).

NOTE This project supports 100% Environmental Regulation.

E. Annual Operating Budget Impact (000's)

		FY of Impact
Program Costs	Staff
	Other
Facility Costs	Maintenance
	Debt Service	3672 15
Total Costs.....		3672 15
Impact on Water or Sewer Rate.....	8¢	15

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	57,785
Present Cost Estimate	89,115
Approved Request, Last FY	14,706
Total Expenditures & Encumbrances	26,537
Approval Request FY 10	21,344
Supplemental Approval Request Current FY (09)	

G. Status Information

Land Status: Not applicable
 % Project Completion: C-80%
 Est. Completion Date: FY 2014

H. Map | **Map Reference Code:**

MAP NOT AVAILABLE

9-159