

A. Identification and Coding Information			2. Date: October 1, 2004	7. Pre PDF Pg.No.:	8. Req. Adeq. Pub. Fac.
1. Project Number	Agency Number	Update Code	Revised: May 12, 2005		
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		

E. Annual Operating Budget Impact (000's)				FY of Impact
Program Costs	Staff	.....	.....
	Other	.....	.....
Facility Costs	Maintenance	.....	.....
	Debt Service	.....	1201	09
Total Costs	.....		1201	09
Impact on Water or Sewer Rate	.....		3¢	09

B. Expenditure Schedule (000's)											
Cost Elements	(8) Total	(9) Thru FY '04	(10) Estimate FY '05	(11) Total 6 Years	(12) Year 1 FY '06	(13) Year 2 FY '07	(14) Year 3 FY '08	(15) Year 4 FY '09	(16) Year 5 FY '10	(17) Year 6 FY '11	(18) Beyond 6 Years
Planning, Design & Supervision	4,595	2,408	154	2,033	498	981	506	48			
Land											
Site Improvements & Utilities											
Construction	29,544	14,010	1,091	14,443	3,536	6,970	3,596	341			
Other	177		12	165	40	80	41	4			
Total	34,316	16,418	1,257	16,641	4,074	8,031	4,143	393			

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	32,877
Present Cost Estimate	34,316
Approved Request, Last FY	1,743
Total Expenditures & Encumbrances	16,418
Approval Request FY 06	4,074
Supplemental Approval Request Current FY (05)	

C. Funding Schedule (000's)											
WSSC Bonds	16,214	7,758	594	7,862	1,925	3,795	1,957	185			
State Aid	17,160	8,209	629	8,322	2,037	4,016	2,072	197			
City of Rockville	942	451	34	457	112	220	114	11			

G. Status Information	
Land Status:	Not applicable
% Project Completion:	C-57%
Est. Completion Date:	FY2008

D. Description & Justification

DESCRIPTION

This project includes funding for WSSC's share of the Blue Plains Biological Nitrogen Removal Pilot Project and BNR Permanent Facility design and construction. 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, 1992 Study; Civil Action No. 90-163 and Civil Action No. 84-2842 JGP; the WASA Master Plan (1998); and the DC-WASA Proposed FY 2003 - FY 2012 Capital Improvement Program (10/16/03).

Specific Data
The Pilot Project was a phased, four year, half-plant trial. Portions of the nitrification basins were converted to anoxic zones and methanol added as the carbon source. The Pilot Project was not carried out for the third and fourth years as the process proved to be successful during the first two years. The Consent Decree acknowledged that applying this technology to the Blue Plains WWTP was experimental. Based on the results of the pilot project, permanent BNR facilities are being designed and constructed at Blue Plains. These facilities include 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).

Cost Change
Cost increase reflects the latest estimate from DCWASA for improvements to reliability in future years.

STATUS Various Stages of Planning & Design

OTHER
The project scope has remained the same.
Project History: This project was first included in the FY96 CIP and represents WSSC's share of costs for Biological Nitrogen Removal (BNR) at Blue Plains. The initial cost for this project, estimated at \$12.1 million, reflected only the cost of the pilot program to determine the efficacy of methanol addition for BNR. Upon successful completion of the pilot program, a consent decree required that permanent facilities were to be constructed. The expenditure schedule reflects the cost of permanent BNR facilities. 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 in the amount shown. However, MDE has not yet agreed that all of the Phase II costs are grant eligible.

H. Map Map Reference Code:

MAP NOT AVAILABLE

D. DESCRIPTION & JUSTIFICATION (CONT.)

Agency Number: S - 22.08

Project Name: Blue Plains WWTP: Biological Nutrient Removal

COORDINATION

District of Columbia Water & Sewer Authority (responsible for design and construction).

NOTE This project supports 100% Environmental Regulation.