

E. Annual Operating Budget Impact (000's)				FY of Impact
Program Costs	Staff	Other		
Facility Costs	Maintenance		1377	10
Total Costs	Debt Service		1377	10
Impact on Water or Sewer Rate			3¢	10

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			34,316
Present Cost Estimate			34,814
Approved Request, Last FY			4,074
Total Expenditures & Encumbrances			19,125
Approval Request FY 07			4,352
Supplemental Approval Request Current FY (06)			

G. Status Information			
Land Status:			Not applicable
% Project Completion:			C-65%
Est. Completion Date:			FY 2009

H. Map Map Reference Code:

MAP NOT AVAILABLE

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

B. Expenditure Schedule (000's)												
Cost Elements	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	
	Total	Thru FY '05	Estimate FY '06	Total 6 Years	Year 1 FY '07	Year 2 FY '08	Year 3 FY '09	Year 4 FY '10	Year 5 FY '11	Year 6 FY '12	Beyond 6 Years	
Planning, Design & Supervision	6,148	4,056	524	1,568	596	544	428					
Land												
Site Improvements & Utilities												
Construction	28,498	15,056	251	13,191	3,713	6,361	3,117					
Other	168	13	8	147	43	69	35					
Total	34,814	19,125	783	14,906	4,352	6,974	3,580					

C. Funding Schedule (000's)						
WSSC Bonds	16,452	9,037	370	7,045	2,057	3,296
State Aid	17,408	9,563	392	7,453	2,176	3,487
City of Rockville	954	525	21	408	119	191

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 Adopted FY 2004 - FY 2013 Capital Improvement Program (January, 2005).
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 and incorporates reliability improvements in future years.

STATUS Under Construction
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.

25-6 **2. 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.