

EXECUTIVE RECOMMENDATION

Blue Plains WWTP: Biological Nutrient Removal - No. 973817

Category: WSSC
 Agency: W.S.S.C.
 Planning Area: Countywide
 Relocation Impact: None

Date Last Modified: December 16, 2010
 Required Adequate Public Facility: No

EXPENDITURE SCHEDULE (\$000)

Cost Element	Total	Thru		Est. 6 Year			Beyond				
		FY10	FY11	Total	FY12	FY13	FY14	FY15	FY16	FY17	6 Years
Planning, Design and Supervision	18,470	14,223	1,758	2,489	1,279	1,128	82	0	0	0	0
Construction	64,994	45,678	2,214	17,102	6,903	8,219	981	644	355	0	0
Other	801	565	40	196	82	93	11	6	4	0	0
Total	84,265	60,466	4,012	19,787	8,264	9,440	1,074	650	359	0	0

FUNDING SCHEDULE (\$000)

Municipal (WSSC only)	2,313	1,660	110	543	227	259	29	18	10	0	0
State Aid	42,133	30,233	2,006	9,894	4,132	4,720	537	325	180	0	0
WSSC Bonds	39,819	28,573	1,896	9,350	3,905	4,461	508	307	169	0	0

COMPARISON (\$000)

	Total	Thru		Est. 6 Year			Beyond					Approp. Request
		FY10	FY11	Total	FY12	FY13	FY14	FY15	FY16	FY17	6 Years	
Current Approved	80,261	56,314	7,506	16,441	12,001	4,440	0	0	0	0	0	0
Agency Request	83,628	60,466	6,185	16,977	12,511	4,466	0	0	0	0	0	12,511
Recommended	84,265	60,466	4,012	19,787	8,264	9,440	1,074	650	359	0	0	8,264
CHANGE				TOTAL	%	6-YEAR	%			APPROP.		
Agency Request vs Approved				3,367	4.2%	536	3.3%			12,511		0.0%
Recommended vs Approved				4,004	5.0%	3,346	20.4%			8,264		0.0%
Recommended vs Request				637	0.8%	2,810	16.6%			(4,247)		(33.9%)

Recommendation

APPROVE WITH MODIFICATIONS.

Comments

This project includes funding for WSSC's share of the Blue Plains Advanced Wastewater Treatment Plant "Biological Nutrient Removal" capital project.

WSSC's request was based on cost estimates prepared in the early fall using available information from the District of Columbia Water and Sewer Authority (WASA, now doing business as DC Water). WASA subsequently provided updated figures based on its Proposed 2010 - 2019 Capital Improvement Plan. The Executive recommends changes in the project estimates to align them with the amounts proposed by WASA in its FY2010 - 2019 CIP.

The FY12 appropriation request for this project is \$8,264,000.

A. Identification and Coding Information

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

2. Date: October 1, 2010 Revised:

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

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) Total	(9) Thru FY '10	(10) Estimate FY '11	(11) Total 6 Years	(12) Year 1 FY '12	(13) Year 2 FY '13	(14) Year 3 FY '14	(15) Year 4 FY '15	(16) Year 5 FY '16	(17) Year 6 FY '17	(18) Beyond 6 Years
Planning, Design & Supervision	18,168	14,223	1,724	2,221	1,499	722					
Land											
Site Improvements & Utilities											
Construction	64,666	45,878	4,400	14,588	10,888	3,700					
Other	794	565	61	168	124	44					
Total	83,628	60,466	6,185	16,977	12,511	4,466					

C. Funding Schedule (000's)

WSSC Bonds	39,517	28,573	2,922	8,022	5,912	2,110					
State Aid	41,815	30,233	3,093	8,489	6,256	2,233					
City of Rockville	2,296	1,660	170	466	343	123					

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 2009 - FY 2018 Capital Improvement Program (February, 2010).

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 revised estimates from DCWASA.

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.

E. Annual Operating Budget Impact (000's)

Program Costs	Staff	Other	Maintenance	Debt Service	FY of Impact
Program Costs
Facility Costs
Total Costs	3429	14
Impact on Water or Sewer Rate	7¢	14

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	81,051
Present Cost Estimate	83,628
Approved Request, Last FY	7,506
Total Expenditures & Encumbrances	60,466
Approval Request FY 12	12,511
Supplemental Approval Request Current FY (11)	

G. Status Information

Land Status: Not applicable

% Project Completion: C-90%

Est. Completion Date: FY 2013

H. Map Map Reference Code:

MAP NOT AVAILABLE