

## EXECUTIVE RECOMMENDATION

### Blue Plains WWTP: Enhanced Nutrient Removal (P083800)

Project Category	WSSC	Date Last Modified	12/28/12
Project SubCategory	Sewerage Bi-County	Required Adequate Public Facility	No
Project Administering Agency	W.S.S.C. (AAGE23)	Relocation Impact	None
Project Planning Area	Bi-County	Status	TBA

#### EXPENDITURE SCHEDULE (\$000s)

	Total	Thru FY12	Est FY13	Total 6 Years	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	Beyond 6 Yrs
Planning, Design and Supervision	103,294	46,850	18,342	35,715	12,038	9,260	5,588	4,244	3,537	1,048	2,387
Land	0	0	0	0	0	0	0	0	0	0	0
Site Improvements and Utilities	0	0	0	0	0	0	0	0	0	0	0
Construction	297,648	43,005	64,497	187,803	48,324	51,079	39,717	35,022	13,650	11	2,343
Other	3,111	0	828	2,236	604	603	453	393	172	11	47
<b>Total</b>	<b>404,053</b>	<b>89,855</b>	<b>83,667</b>	<b>225,754</b>	<b>60,966</b>	<b>60,942</b>	<b>45,758</b>	<b>39,659</b>	<b>17,359</b>	<b>1,070</b>	<b>4,777</b>

#### FUNDING SCHEDULE (\$000s)

Municipal (WSSC only)	10,457	630	1,758	7,845	1,283	1,514	2,219	1,940	847	42	224
State Aid	213,580	78,379	51,646	82,858	37,594	33,361	5,340	4,324	1,938	301	697
WSSC Bonds	180,016	10,846	30,263	135,051	22,089	26,067	38,199	33,395	14,574	727	3,856
<b>Total</b>	<b>404,053</b>	<b>89,855</b>	<b>83,667</b>	<b>225,754</b>	<b>60,966</b>	<b>60,942</b>	<b>45,758</b>	<b>39,659</b>	<b>17,359</b>	<b>1,070</b>	<b>4,777</b>

#### COMPARISON (\$000s)

	Total	Thru FY12	Est FY13	6YR Total	FY14	FY15	FY16	FY17	FY18	FY19	Bey 6Yr	Approp.
Current Approved	395,287	107,051	73,377	212,289	59,813	46,120	50,593	43,635	12,128	0	2,570	0
Agency Request	407,890	89,855	76,429	233,800	70,592	54,708	45,823	42,920	18,241	1,516	7,806	70,592
Recommended	404,053	89,855	83,667	225,754	60,966	60,942	45,758	39,659	17,359	1,070	4,777	60,966

Change	TOTAL	%	6-YEAR	%	APPROP.	%
Agency Request vs Approved	12,603	3.2%	21,511	10.1%	70,592	0.0%
Recommended vs Approved	8,766	2.2%	13,465	6.3%	60,966	0.0%
Recommended vs Request	(3,837)	(0.9%)	(8,046)	(3.4%)	(9,626)	(13.6%)

#### Recommendation

APPROVE WITH MODIFICATIONS.

#### Comments

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

WSSC's request was based on cost estimates prepared in the early fall using available information from DC Water (formerly the District of Columbia Water and Sewer Authority or WASA). DC Water subsequently provided updated figures based on its Proposed FY 2012-2021 Capital Improvement Plan. The Executive recommends changes in the project estimates to align them with the amounts proposed in DC Water's FY 2012-2021 CIP.

The FY14 appropriation request for this project is \$60,966,000. Beginning in FY11, funding for this project reflects the March 18, 2010 agreement between WSSC and the State of Maryland that WSSC will cover 46% of the overall project's eligible costs and the City of Rockville will cover 2.7%, with the remaining 51.3% to be covered by the State. (The State's share varies year to year due to the differing funding percentages assigned to different subprojects.)

**A. Identification and Coding Information**

1. Project Number	Agency Number	Update Code	2. Date: October 1, 2012	7. Pre PDF Pg.No.:	8. Req. Adeq. Pub. Fac.
083800	S-22.10	Change	Revised:		

3. Project Name: Blue Plains WWTP: Enhanced Nutrient Removal  
 4. Program: **Sanitation** 6. Planning Area: Bi-County  
 5. Agency: **WSSC**

**E. Annual Operating Budget Impact (000's)** FY of Impact

Program Costs	Staff	.....	....
	Other	.....	....
Facility Costs	Maintenance	.....	....
	Debt Service	.....	14917
Total Costs.....			14917
Impact on Water or Sewer Rate.....			32¢

**B. Expenditure Schedule (000's)**

	(8) Total	(9) Thru FY '12	(10) Estimate FY '13	(11) Total 6 Years	(12) Year 1 FY '14	(13) Year 2 FY '15	(14) Year 3 FY '16	(15) Year 4 FY '17	(16) Year 5 FY '18	(17) Year 6 FY '19	(18) Beyond 6 Years
Cost Elements											
Planning, Design & Supervision	<b>102,297</b>	46,850	14,255	<b>37,729</b>	12,421	8,974	6,216	5,090	3,543	1,485	3,463
Land											
Site Improvements & Utilities											
Construction	<b>302,443</b>	43,005	61,417	<b>193,755</b>	57,472	45,192	39,153	37,405	14,517	16	4,266
Other	<b>3,150</b>		757	<b>2,316</b>	699	542	454	425	181	15	77
<b>Total</b>	<b>407,890</b>	<b>89,855</b>	<b>76,429</b>	<b>233,800</b>	<b>70,592</b>	<b>54,708</b>	<b>45,823</b>	<b>42,920</b>	<b>18,241</b>	<b>1,516</b>	<b>7,806</b>

**F. Approval and Expenditure Data (000's)**

Date First in Capital Program	FY 08
Date First Approved	FY 07
Initial Cost Estimate	648
Cost Estimate Last FY	395,287
Present Cost Estimate	407,890
Approved Request, Last FY	73,377
Total Expenditures & Encumbrances	89,855
Approval Request FY 14	70,592
Supplemental Approval Request Current FY (13)	

**C. Funding Schedule (000's)**

	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
WSSC Bonds	<b>194,404</b>	10,846	27,315	<b>148,868</b>	29,712	26,107	38,756	37,019	15,855	1,419	7,375
State Aid	<b>202,195</b>	78,379	47,527	<b>76,286</b>	39,154	27,085	4,816	3,751	1,465	15	3
City of Rockville	<b>11,291</b>	630	1,587	<b>8,646</b>	1,726	1,516	2,251	2,150	921	82	428

**D. Description & Justification**

**DESCRIPTION**  
 This project provides funding for WSSC's share of the Blue Plains Enhanced Nutrient Removal projects required to achieve nutrient removal to levels below BNR levels to meet the Chesapeake Bay water quality targets determined in the 2005 Tributary Strategy process. Sub-projects include: Nitrogen Removal Facilities, Centrate Treatment, Enhanced Clarification Facility, and Blue Plains Tunnel and Dewatering Pumping Station.

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

**JUSTIFICATION**

**Plans & Studies**  
 Chesapeake Bay Program Tributary Strategies Process (2005); Blue Plains Strategic Process Study, Metcalf & Eddy (2005); Selection of the Enhanced Nitrogen Removal Process Alternative for the Blue Plains Advanced Wastewater Treatment Facility, Metcalf & Eddy (2009); DCWASA Approved FY 2013 Capital Improvement Program, and the Blue Plains Intermunicipal Agreement of 2012.

**Specific Data**  
 The funding schedule reflects the final cost sharing agreement with the Maryland Department of the Environment.

**Cost Change**  
 Total project cost increase is based on revised construction cost estimates from DCWASA. Projects extending beyond those supported by State Aid include rehabilitation and upgrades to older projects.

**STATUS** Not Applicable (WSSC Contract Nos. CB4168L05 , CB4168Q05).

**OTHER**  
 The project scope has remained the same. Project costs are derived from the DCWASA Capital & Operating Budget 10-year forecast and latest project management data, and reflect DCWASA's current expenditure estimates and schedules.

**COORDINATION**  
 Maryland Department of the Environment, U.S. Environmental Protection Agency, Region III and District of Columbia Water & Sewer Authority (responsible for design and construction).

**NOTE** This project supports 100% Environmental Regulation.

**G. Status Information**

Land Status: Not applicable  
 % Project Completion: On-Going  
 Est. Completion Date: On-Going

**H. Map Map Reference Code:**

MAP NOT AVAILABLE