

Resolution No:	<u>16-1379</u>
Introduced:	<u>May 27, 2010</u>
Adopted:	<u>May 27, 2010</u>

**COUNTY COUNCIL  
FOR MONTGOMERY COUNTY, MARYLAND**

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By: County Council

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**SUBJECT:** Approval of the FY11-16 Capital Improvements Program for the Washington Suburban Sanitary Commission

**Background**

1. As required by Article 29, Sections 7-101, 7-103, and 7-104 of the Maryland Code, before October 1 of each year, the Washington Suburban Sanitary Commission (WSSC) must prepare and submit to the County Executive and County Council of Montgomery County a 6-year Capital Improvements Program (CIP) for water and sewer facilities.
2. On October 1, 2009, WSSC transmitted its Proposed CIP for Fiscal Years 2011-2016.
3. On January 15, 2010, the County Executive transmitted his recommendations regarding the FY 2011-2016 WSSC CIP.
4. On January 20, 2010, WSSC transmitted a mid-cycle update to its Proposed CIP for Fiscal Years 2011-2016. This update included proposed changes to 7 CIP projects.
5. Article 29, Section 7-105(d)(1) authorizes the Council to approve, disapprove, or modify the WSSC CIP.
6. Article 29, Section 7-105(b)(1) requires that before final action on the WSSC CIP is taken, public hearings must be held on the Program. The Council held public hearings on the CIP on February 16, 2010 and February 17, 2010.
7. The Council considered the recommendations of the Executive and the Montgomery County Planning Board with respect to the CIP and reviewed the project description forms.
8. The Council recognizes that the information and documentation contained in the CIP is an integral part of the Comprehensive Water Supply and Sewerage Systems Plan which must be submitted to the State Department of the Environment in accordance with Section 9-501 et seq. of the Environment Article of the Maryland Code.

9. On May 13, 2010, the Montgomery County and Prince George's County Councils jointly reviewed their respective proposed additions to, deletions from, increases to, and decreases in the WSSC capital and operating budgets and further considered all proposed changes. The Councils agree on changes to the WSSC capital and operating budgets.

**Action**

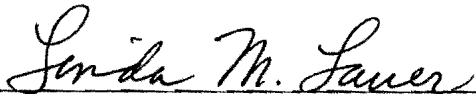
The County Council for Montgomery County, Maryland approves the following resolution for the Washington Suburban Sanitary Commission:

1. The Council approves the projects in the WSSC Proposed CIP for FY11-16 as transmitted on October 1, 2009, except those projects which are approved as modified by the Montgomery and Prince George's County Councils. Amended project description forms are attached to this resolution and are identified by the following WSSC project numbers:

S-22.06, S-22.07, S-22.08, S-22.09, S-22.10, S-22.11, S-170.09

2. The Council approves the close out of the projects in Part I.

This is a correct copy of Council action.

  
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Linda M. Lauer, Clerk of the Council

<b>A. Identification and Coding Information</b>			2. Date: October 1, 2009	7. Pre PDF Pg.No.: 8. Req. Adeq. Pub. Fac.
1. Project Number	Agency Number	Update Code	Revised: January 20, 2010	
954811	S-22.06	Change		
3. Project Name: Blue Plains WWTP: Liquid Train Projects, Part 2			5. Agency: <b>WSSC</b>	
4. Program: <b>Sanitation</b>			6. Planning Area: Bi-County	

B. Expenditure Schedule (000's)											
Cost Elements	(8) Total	(9) Thru FY '09	(10) Estimate FY '10	(11) Total 6 Years	(12) Year 1 FY '11	(13) Year 2 FY '12	(14) Year 3 FY '13	(15) Year 4 FY '14	(16) Year 5 FY '15	(17) Year 6 FY '16	(18) Beyond 6 Years
Planning, Design & Supervision	42,562	32,205	2,140	6,603	490	1,015	2,310	842	823	1,123	1,614
Land											
Site Improvements & Utilities											
Construction	195,441	173,380	4,362	14,639	2,316	4,734	3,983	778	796	2,032	3,060
Other	2,380	2,056	65	212	28	57	63	16	16	32	47
<b>Total</b>	<b>240,383</b>	<b>207,641</b>	<b>6,567</b>	<b>21,454</b>	<b>2,834</b>	<b>5,806</b>	<b>6,356</b>	<b>1,636</b>	<b>1,635</b>	<b>3,187</b>	<b>4,721</b>

C. Funding Schedule (000's)											
WSSC Bonds	227,187	196,243	6,207	20,275	2,678	5,487	6,007	1,546	1,545	3,012	4,462
City of Rockville	13,196	11,398	360	1,179	156	319	349	90	90	175	259

#### D. Description & Justification

##### DESCRIPTION

This project provides funding for WSSC's share of Blue Plains liquid train projects for which construction began after June 30, 1993. Major projects include: Filtration and Disinfection Rehabilitation; and Dual Purpose Sedimentation Basins Rehabilitation.

**Service Area** Bi-County Area

**Capacity** 370 MGD

##### JUSTIFICATION

###### Plans & Studies

The Blue Plains Intermunicipal Agreement of 1985; the DCWASA Master Plan (1998); and the DCWASA Proposed FY 2009 - FY 2018 Capital Improvement Program information (October, 2009).

###### Specific Data

This is a continuation of the DCWASA's upgrading of the Blue Plains Wastewater Treatment Plant.

###### Cost Change

The cost increase is due to revised higher design and construction cost estimates for Filtration and Disinfection Facilities, process research and pilot projects, and associated project management.

**STATUS** Not Applicable

##### OTHER

The project scope has remained the same. Project costs are derived from the DCWASA Capital & Operating Budget 10-year forecast of spending and DCWASA's latest project management data, and fully reflect DCWASA's current cost estimates and expenditure schedules. Given the open-ended nature of the Blue Plains projects, this PDF does not fully reflect the total project costs. These projects are, in fact, expected to continue indefinitely. As new sub-projects are added to the Blue Plains facility plans, the associated costs will be added to this project. The funding schedule also indicates the calculated Rockville share of the cost.

##### COORDINATION

District of Columbia Water & Sewer Authority (responsible for design and construction). (Biological Nutrient Removal costs are carried on WSSC Project S-22.08). (Enhanced Nutrient Removal costs are carried on WSSC Project S-22.10).

**NOTE** This project supports 100% System Improvement.

E. Annual Operating Budget Impact (000's)		FY of Impact
Program Costs	Staff .....	....
	Other .....	....
Facility Costs	Maintenance .....	....
	Debt Service .....	19555 ....
Total Costs.....		19555 ....
Impact on Water or Sewer Rate.....		42¢ ....

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

Date First in Capital Program	FY 95
Date First Approved	FY 95
Initial Cost Estimate	69,745
Cost Estimate Last FY	224,120
Present Cost Estimate	240,383
Approved Request, Last FY	4,803
Total Expenditures & Encumbrances	207,641
Approval Request FY 11	2,834
Supplemental Approval Request Current FY (10)	

#### G. Status Information

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

#### H. Map Map Reference Code:

**MAP NOT AVAILABLE**

Attachment to Resolution No.: 16-1379

**A. Identification and Coding Information**

1. Project Number	Agency Number	Update Code
954812	S-22.07	Change

2. Date: October 1, 2009

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

Revised: January 20, 2010

3. Project Name: Blue Plains WWTP: Biosolids Management, Part 2

5. Agency: **WSSC**4. Program: **Sanitation** 6. Planning Area: Bi-County**B. Expenditure Schedule (000's)**

Cost Elements	(8) Total	(9) Thru FY '09	(10) Estimate FY '10	(11) Total 6 Years	(12) Year 1 FY '11	(13) Year 2 FY '12	(14) Year 3 FY '13	(15) Year 4 FY '14	(16) Year 5 FY '15	(17) Year 6 FY '16	(18) Beyond 6 Years
Planning, Design & Supervision	<b>78,662</b>	36,070	5,996	<b>36,037</b>	8,958	11,027	10,353	4,858	375	466	559
Land											
Site Improvements & Utilities											
Construction	<b>278,101</b>	61,576	7,090	<b>207,278</b>	29,636	91,093	49,221	29,716	2,508	5,104	2,157
Other	<b>3,568</b>	976	131	<b>2,434</b>	386	1,021	596	346	29	56	27
<b>Total</b>	<b>360,331</b>	<b>98,622</b>	<b>13,217</b>	<b>245,749</b>	<b>38,980</b>	<b>103,141</b>	<b>60,170</b>	<b>34,920</b>	<b>2,912</b>	<b>5,626</b>	<b>2,743</b>

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

WSSC Bonds	<b>340,549</b>	93,208	12,491	<b>232,258</b>	36,840	97,479	56,867	33,003	2,752	5,317	2,592
City of Rockville	<b>19,782</b>	5,414	726	<b>13,491</b>	2,140	5,662	3,303	1,917	160	309	151

**D. Description & Justification****DESCRIPTION**

This project includes funding for WSSC's share of the Blue Plains Wastewater Treatment Plant biosolids handling projects for which construction began after June 30, 1993. Major projects include: new digestion facilities; gravity and centrifuge thickener facilities; area electrical substation #6; and solids processing building/dewatered sludge loading facility.

Service Area Bi-County Area

Capacity 370 MGD

**JUSTIFICATION****Plans & Studies**

The Blue Plains Intermunicipal Agreement of 1985; the DCWASA Master Plan (1998); EPMC IV Facility Plan (CH2MHILL, 2001); the Biosolids Management at DCWASA Blue Plains Wastewater Treatment Plant Phase II - Design and Cost Considerations for Treatment Alternatives Report (December 2007); and the DCWASA Proposed FY 2009 - FY 2018 Capital Improvement Program information (October, 2009).

**Specific Data**

This project is needed to implement a set of facilities which will provide a permanent biosolids management program for Blue Plains.

**Cost Change**

The cost increase is primarily due to refinements in design and construction of the new Digester Facilities and associated program management.

**STATUS** Not Applicable**OTHER**

The project scope has remained the same. Project costs are derived from the DCWASA Capital & Operating Budget 10-year forecast of spending and DCWASA's latest project management data, and fully reflect DCWASA's current cost estimates and expenditure schedules. Given the open-ended nature of the Blue Plains projects, this PDF does not fully reflect the total project costs. These projects are, in fact, expected to continue indefinitely. As new sub-projects are added to the Blue Plains facility plans, the associated costs will be added to this project. The funding schedule also indicates the calculated Rockville share of the cost.

**COORDINATION**

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

**NOTE** This project supports 100% System Improvement.**E. Annual Operating Budget Impact (000's)**

FY of Impact

Program Costs	Staff .....	....
	Other .....	....
Facility Costs	Maintenance .....	....
	Debt Service .....	29895 ....
Total Costs.....		29895 ....
Impact on Water or Sewer Rate.....		64¢ ....

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

Date First in Capital Program	FY 95
Date First Approved	FY 95
Initial Cost Estimate	77,296
Cost Estimate Last FY	310,198
Present Cost Estimate	360,331
Approved Request, Last FY	16,351
Total Expenditures & Encumbrances	98,622
Approval Request FY 11	38,980
Supplemental Approval Request Current FY (10)	

**G. Status Information**

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

**H. Map Map Reference Code:****MAP NOT AVAILABLE**

<b>A. Identification and Coding Information</b>			2. Date: October 1, 2009	7. Pre PDF Pg.No.: 8. Req. Adeq. Pub. Fac.
1. Project Number	Agency Number	Update Code		
973817	S-22.08	Change	Revised: January 20, 2010	
3. Project Name: Blue Plains WWTP: Biological Nutrient Removal			5. Agency: <b>WSSC</b>	
4. Program: <b>Sanitation</b>			6. Planning Area: Bi-County	

B. Expenditure Schedule (000's)											
Cost Elements	(8) Total	(9) Thru FY '09	(10) Estimate FY '10	(11) Total 6 Years	(12) Year 1 FY '11	(13) Year 2 FY '12	(14) Year 3 FY '13	(15) Year 4 FY '14	(16) Year 5 FY '15	(17) Year 6 FY '16	(18) Beyond 6 Years
Planning, Design & Supervision	17,446	12,434	1,479	3,533	1,473	1,336	724				
Land											
Site Improvements & Utilities											
Construction	62,803	31,080	11,546	20,177	5,959	10,546	3,672				
Other	802	435	130	237	74	119	44				
<b>Total</b>	<b>81,051</b>	<b>43,949</b>	<b>13,155</b>	<b>23,947</b>	<b>7,506</b>	<b>12,001</b>	<b>4,440</b>				

C. Funding Schedule (000's)											
WSSC Bonds	38,300	20,768	6,216	11,316	3,547	5,671	2,098				
State Aid	40,527	21,975	6,578	11,974	3,753	6,001	2,220				
City of Rockville	2,224	1,206	361	657	206	329	122				

#### 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 Proposed FY 2009 - FY 2018 Capital Improvement Program information (October, 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 decrease is due to sub-projects moving through construction.

**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 .....	3307	14
Total Costs.....		3307	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	89,115
Present Cost Estimate	81,051
Approved Request, Last FY	21,344
Total Expenditures & Encumbrances	43,949
Approval Request FY 11	7,506
Supplemental Approval Request Current FY (10)	

#### G. Status Information

Land Status: Not applicable  
 % Project Completion: C-85%  
 Est. Completion Date: FY 2014

#### H. Map Map Reference Code:

**MAP NOT AVAILABLE**

**A. Identification and Coding Information**

1. Project Number	Agency Number	Update Code
023805	S-22.09	Change

2. Date: October 1, 2009

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

Revised: January 20, 2010

5. Agency: **WSSC**

3. Project Name: Blue Plains WWTP: Plant-wide Projects

4. Program: **Sanitation** 6. Planning Area: Bi-County**B. Expenditure Schedule (000's)**

Cost Elements	(8) Total	(9) Thru FY '09	(10) Estimate FY '10	(11) Total 6 Years	(12) Year 1 FY '11	(13) Year 2 FY '12	(14) Year 3 FY '13	(15) Year 4 FY '14	(16) Year 5 FY '15	(17) Year 6 FY '16	(18) Beyond 6 Years
Planning, Design & Supervision	44,172	35,077	1,558	6,705	1,062	2,207	1,123	1,121	880	312	832
Land											
Site Improvements & Utilities											
Construction	133,961	93,694	6,531	31,294	8,625	5,599	5,190	6,877	4,374	629	2,442
Other	1,782	1,288	81	380	97	78	63	80	53	9	33
<b>Total</b>	<b>179,915</b>	<b>130,059</b>	<b>8,170</b>	<b>38,379</b>	<b>9,784</b>	<b>7,884</b>	<b>6,376</b>	<b>8,078</b>	<b>5,307</b>	<b>950</b>	<b>3,307</b>

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

WSSC Bonds	170,040	122,920	7,722	36,273	9,247	7,451	6,026	7,635	5,016	898	3,125
City of Rockville	9,875	7,139	448	2,106	537	433	350	443	291	52	182

**D. Description & Justification****DESCRIPTION**

This project provides funding for WSSC's share of Blue Plains plant-wide projects for which construction began after June 30, 1993. Major projects include: Process Control Computer Systems; Electrical Power Systems Additions, Phases I & II; High Priority Rehabilitation Program; and Plant-wide Fine Bubble Aeration Conversion.

Service Area Bi-County Area

Capacity 370 MGD

**JUSTIFICATION****Plans & Studies**

The Blue Plains Intermunicipal Agreement of 1985; the WASA Master Plan (1998); and the DCWASA Proposed FY 2009 - FY 2018 Capital Improvement Program information (October, 2009).

**Specific Data**

This is a continuation of the DCWASA's upgrading of the Blue Plains Wastewater Treatment Plant.

**Cost Change**

Expenditures shown above now exclude costs for currently active projects "outside the fence" of the wastewater treatment plant. Beginning with the FY 2011 CIP, those costs have been split out and are shown under project S-22.11: Blue Plains Pipelines and Appurtenances. However, the design and construction costs for Electrical Power System Switch Gear and Process Computer Control System have increased.

**STATUS** Not Applicable**OTHER**

The project scope has been revised for the FY 2011 CIP to exclude expenditures for currently active projects outside the fence of plant. 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. Given the open-ended nature of the project, this PDF does not fully reflect the total project costs. These projects are, in fact, expected to continue indefinitely. As new sub-projects are added to the Blue Plains facility plans, the associated costs will be added to this project. The funding schedule also indicates the calculated Rockville share of the cost.

**COORDINATION**

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

**NOTE** This project supports 100% System Improvement.**E. Annual Operating Budget Impact (000's)**

FY of Impact

Program Costs	Staff .....	....
	Other .....	....
Facility Costs	Maintenance .....	....
	Debt Service .....	15070
Total Costs.....		15070
Impact on Water or Sewer Rate.....		32¢

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

Date First in Capital Program	FY 95
Date First Approved	FY 02
Initial Cost Estimate	84,650
Cost Estimate Last FY	197,842
Present Cost Estimate	179,915
Approved Request, Last FY	18,126
Total Expenditures & Encumbrances	130,059
Approval Request FY 11	9,784
Supplemental Approval Request Current FY (10)	

**G. Status Information**

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

**H. Map Map Reference Code:****MAP NOT AVAILABLE**

**A. Identification and Coding Information**

1. Project Number: 083800    Agency Number: S-22.10    Update Code: Change

2. Date: October 1, 2009    Revised: January 20, 2010

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

4. Program: Sanitation    6. Planning Area: Bi-County

5. Agency: WSSC

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

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

Cost Elements	(8) Total	(9) Thru FY '09	(10) Estimate FY '10	(11) Total 6 Years	(12) Year 1 FY '11	(13) Year 2 FY '12	(14) Year 3 FY '13	(15) Year 4 FY '14	(16) Year 5 FY '15	(17) Year 6 FY '16	(18) Beyond 6 Years
Planning, Design & Supervision	63,573	1,571	7,843	48,055	7,057	9,366	11,765	9,161	6,960	3,746	6,104
Land											
Site Improvements & Utilities											
Construction	364,816		2,947	297,572	27,579	70,384	82,577	36,947	32,915	47,170	64,297
Other	4,284	16	108	3,456	346	798	943	461	399	509	704
<b>Total</b>	<b>432,673</b>	<b>1,587</b>	<b>10,898</b>	<b>349,083</b>	<b>34,982</b>	<b>80,548</b>	<b>95,285</b>	<b>46,569</b>	<b>40,274</b>	<b>51,425</b>	<b>71,105</b>

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

State Aid	432,673	1,587	10,898	349,083	34,982	80,548	95,285	46,569	40,274	51,425	71,105
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**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 Proposed FY 2009 - FY 2018 Capital Improvement Program information (October, 2009).

**Specific Data**

The costs for this program are anticipated to be covered by the Bay Restoration Fund.

**Cost Change**

The cost increase is due to revised estimates from DCWASA and a higher negotiated WSSC cost share.

**STATUS** Various Stages of Planning & Design (WSSC Contract Nos. CB4168L05, CB4168Q05).

**OTHER**

The project scope has remained the same. Expenditures and schedule shown in Block B are planning level estimates and may change based upon site conditions and design constraints.

**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.

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

Program Costs    Staff .....    .....

                                 Other .....    .....

Facility Costs    Maintenance .....    .....

                                 Debt Service .....    .....

Total Costs.....    .....

Impact on Water or Sewer Rate.....    .....

**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	290,352
Present Cost Estimate	432,673
Approved Request, Last FY	8,413
Total Expenditures & Encumbrances	1,587
Approval Request FY 11	34,982
Supplemental Approval Request Current FY (10)	

**G. Status Information**

Land Status: Not Applicable

% Project Completion: P-65%

Est. Completion Date: FY 2019

**H. Map    Map Reference Code:**

**MAP NOT AVAILABLE**

**A. Identification and Coding Information**

1. Project Number	Agency Number	Update Code
113804	S-22.11	Change

3. Project Name: Blue Plains: Pipelines &amp; Appurtenances

4. Program: **Sanitation** 6. Planning Area: Bi-County

2. Date: October 1, 2009

Revised: January 20, 2010

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

5. Agency: **WSSC****E. Annual Operating Budget Impact (000's)**

FY of Impact

Program Costs	Staff .....	.....
	Other .....	.....
Facility Costs	Maintenance .....	.....
	Debt Service .....	8475 .....
Total Costs .....		8475 .....
Impact on Water or Sewer Rate .....		18¢ .....

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

Cost Elements	(8) Total	(9) Thru FY '09	(10) Estimate FY '10	(11) Total 6 Years	(12) Year 1 FY '11	(13) Year 2 FY '12	(14) Year 3 FY '13	(15) Year 4 FY '14	(16) Year 5 FY '15	(17) Year 6 FY '16	(18) Beyond 6 Years
Planning, Design & Supervision	20,901	1,129	2,896	13,639	3,134	1,907	2,892	2,320	1,968	1,418	3,237
Land											
Site Improvements & Utilities											
Construction	80,915	6,434	15,332	48,944	6,105	4,313	14,344	11,688	6,360	6,134	10,205
Other	1,017	76	182	625	92	62	172	140	83	76	134
<b>Total</b>	<b>102,833</b>	<b>7,639</b>	<b>18,410</b>	<b>63,208</b>	<b>9,331</b>	<b>6,282</b>	<b>17,408</b>	<b>14,148</b>	<b>8,411</b>	<b>7,628</b>	<b>13,576</b>

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

WSSC Bonds	97,187	7,220	17,399	59,737	8,819	5,937	16,452	13,371	7,949	7,209	12,831
City of Rockville	5,646	419	1,011	3,471	512	345	956	777	462	419	745

**D. Description & Justification****DESCRIPTION**

This project provides funding for WSSC's share of Blue Plains-associated projects which are "outside the fence" of the treatment plant. Major projects include: Potomac Interceptor Rehabilitation; Upper Potomac Interceptor; Potomac Sewage Pumping Station Rehabilitation; Influent Sewers Rehabilitation; and the new projects associated with the Combined Sewer Overflow (CSO) Long Term Control Plan (e.g. Anacostia Tunnel).

Service Area Bi-County Area

Capacity Various

**JUSTIFICATION****Plans & Studies**

The Blue Plains Intermunicipal Agreement of 1985; the WASA Master Plan (1998); and the DCWASA Proposed FY 2009 - FY 2018 Capital Improvement Program information (October, 2009).

**Specific Data**

This is a continuation of DCWASA's upgrading of the Blue Plains-associated projects outside the fence.

**Cost Change**

The cost for this project has increased due to increased costs for design and construction for Potomac Interceptor projects and, the addition of the Anacostia Tunnel portion of the Long Term Control Program.

**STATUS** Not Applicable**OTHER**

The project scope was developed for the FY 2011 CIP as a split from the existing, S-22.09, Blue Plains WWTP: Plant-wide Projects. The creation of this Pipelines & Appurtenances project is justified by language in the Blue Plains Intermunicipal Agreement, and the expected increases in costs for new and existing projects outside the fence. Expenditures shown above include costs for currently active projects outside the fence which were previously shown in the Plant-wide project. Project costs are derived from the DC-WASA Capital & Operating Budget 10-year forecast and latest project management data, and reflect WASA's current expenditure estimates and schedules. Given the open-ended nature of the project, this PDF does not fully reflect the total project costs. These projects are, in fact, expected to continue indefinitely. As new sub-projects are added to the Blue Plains facility plans, the associated costs will be added to this project. The funding schedule also indicates the calculated Rockville share of the cost.

**COORDINATION**

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

**NOTE** This project supports 45% System Improvement and 55% Environmental Regulation.**F. Approval and Expenditure Data (000's)**

Date First in Capital Program	FY 11
Date First Approved	FY 02
Initial Cost Estimate	102,833
Cost Estimate Last FY	
Present Cost Estimate	102,833
Approved Request, Last FY	
Total Expenditures & Encumbrances	7,639
Approval Request FY 11	9,331
Supplemental Approval Request Current FY (10)	

**G. Status Information**

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

**H. Map Map Reference Code:****MAP NOT AVAILABLE**



**D. DESCRIPTION & JUSTIFICATION (CONT.)**

**Agency Number: S - 22.11**

**Project Name: Blue Plains: Pipelines & Appurtenances**

**A. Identification and Coding Information**

1. Project Number	Agency Number	Update Code
113805	S-170.09	Add

2. Date: October 1, 2009  
Revised: January 20, 2010

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

5. Agency: **WSSC**

3. Project Name: Trunk Sewer Reconstruction Program

4. Program: **Sanitation** 6. Planning Area: Bi-County

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

Cost Elements	(8) Total	(9) Thru FY '09	(10) Estimate FY '10	(11) Total 6 Years	(12) Year 1 FY '11	(13) Year 2 FY '12	(14) Year 3 FY '13	(15) Year 4 FY '14	(16) Year 5 FY '15	(17) Year 6 FY '16	(18) Beyond 6 Years
Planning, Design & Supervision	121,768		14,172	107,596	17,162	34,223	29,045	13,910	10,157	3,099	
Land											
Site Improvements & Utilities											
Construction	307,476			307,476	16,055	91,588	94,335	58,029	40,310	7,159	
Other	75,749		2,501	73,248	5,862	22,202	21,773	12,695	8,906	1,810	
<b>Total</b>	<b>504,993</b>		<b>16,673</b>	<b>488,320</b>	<b>39,079</b>	<b>148,013</b>	<b>145,153</b>	<b>84,634</b>	<b>59,373</b>	<b>12,068</b>	

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

WSSC Bonds	504,993		16,673	488,320	39,079	148,013	145,153	84,634	59,373	12,068	
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**D. Description & Justification****DESCRIPTION**

The Trunk Sewer Reconstruction Program provides for the inspection, evaluation, planning, design and construction required for the rehabilitation of sewer mains 15-inches in diameter and larger and their associated manholes.

**JUSTIFICATION****Plans & Studies**

WSSC Sanitary Sewer Overflow Consent Decree (December 7, 2005)

**Specific Data**

Under the terms of the Consent Decree the WSSC Trunk Sewer Inspection program will inspect approximately 625 miles of sewers in 21-basins by December 2010. Sewer System Evaluation Surveys (SSES) will be conducted for 9 basins by December 2013, and WSSC shall conduct rainfall, groundwater and flow monitoring to determine I/I rates and identify areas of limited capacity through collection system modeling. Where appropriate, WSSC shall use additional means to identify sources of I/I, including CCTV, smoke and/or dye testing.

Once the Trunk Sewer Inspections, SSES work and other related collection system evaluations are complete, a Sewer Basin Repair, Replacement, Rehabilitation Plan (SR3 Plan) for each basin will be completed as required by Article 6 of the Consent Decree. To date, five SR3 Plans have been submitted to the EPA and MDE including Broad Creek (SSES), Rock Creek (SSES), Oxon Run (non-SSES), Northwest Branch (non-SSES), and Sligo Creek (non-SSES). Another 16 SR3 Plans are scheduled for submission in FY10 totaling approximately 215 miles of trunk sewers identified for rehabilitation.

**Cost Change**

Not applicable.

**STATUS** Planning

**OTHER**

The project scope was developed for the FY2011 CIP and has a total project cost of \$504,993,000. This project was split out from the existing S-1.01, Sewer Reconstruction Program in the Information Only section of the CIP to separately identify the 15-inch diameter and larger trunk sewers included in WSSC's overall plans for sewer reconstruction. Expenditures shown above in FY 2010 were previously included in the S-1.01, Sewer Reconstruction Program. The expenditures and schedule shown in Block B above are preliminary planning level estimates and are expected to change as the individual basin designs are completed and construction contracts are bid. The design work for the SR3 Plans pertaining to Trunk Sewer reconstruction will begin in FY 2010 and is projected to be completed by the end of FY 2013. Construction will begin in each basin as the individual designs are completed over the three-year period.

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

FY of Impact

Program Costs	Staff .....	....	
	Other .....	....	
Facility Costs	Maintenance .....	....	
	Debt Service .....	44035	17
Total Costs.....		44035	17
Impact on Water or Sewer Rate.....		95¢	17

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

Date First in Capital Program	FY 11
Date First Approved	FY 11
Initial Cost Estimate	504,993
Cost Estimate Last FY	
Present Cost Estimate	504,993
Approved Request, Last FY	
Total Expenditures & Encumbrances	
Approval Request FY 11	39,079
Supplemental Approval Request Current FY (10)	

**G. Status Information**

Land Status: Right-of-Way may be required  
% Project Completion: P-30%  
Est. Completion Date: FY 2016

**H. Map Map Reference Code:**

**NOT APPLICABLE**

**D. DESCRIPTION & JUSTIFICATION (CONT.)****Agency Number: S - 170.09****Project Name: Trunk Sewer Reconstruction Program**

For FY 2011, construction is scheduled to begin in the Broad Creek, Rock Creek and Sligo Creek Basins, encompassing approximately 13 miles of mainline reconstruction and including pipeline protection from high stream flows and stream bank erosion where required.

The reconstruction that will be performed in each sewer basin will be prioritized to most effectively prevent SSOs and backups. Reconstruction work will include: reduction of inflow and infiltration; replacement of substandard sewer segments; in situ lining of sewer segments; pipeline and manhole protection; rebuilding of manholes; and correction of structural defects and poor alignment. The Consent Decree requires that all rehabilitation work be substantially complete by December 5, 2015.

**COORDINATION**

Maryland State Highway Administration, Montgomery County Department of Public Works and Transportation, Maryland-National Capital Park & Planning Commission, Maryland Department of the Environment, Prince George's County Department of Public Works & Transportation, U.S. Environmental Protection Agency, Region III and WSSC Project S-1.01, Sewer Reconstruction Program.

**NOTE** This project supports 100% System Improvement.

**PART I: WASHINGTON SUBURBAN SANITARY COMMISSION  
CAPITAL PROJECTS TO BE CLOSED OUT**

**The Washington Suburban Sanitary Commission has authorized the close out of the following Montgomery County and Bi-County Projects.**

<b><u>COUNTY NUMBER</u></b>	<b><u>CATEGORY</u></b>	<b><u>PROJECTS</u></b>
894832	Bi-County	Potomac WFP Hydropneumatic Surge Tanks
083809	Bi-County	Wastewater System Master Plan
083806	Bi-County	Water System Master Plan