ADOPTED CIP CAPITAL IMPROVEMENTS PROGRAM





Washington Suburban Sanitary Commission

Washington Suburban Sanitary Commission

Adopted

Six-Year Capital Improvements Program Fiscal Years 2011 - 2016

June 16, 2010

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PAGE NO.

LEGAL AUTHORITY AND RESPONSIBILITY

| STATUTORY BASIS | 1 |
|-------------------------|---|
| WSSC'S ROLE | 1 |
| WSSC'S RESPONSIBILITIES | 2 |

PROGRAM OVERVIEW

| OBJECTIVE |
|--|
| SPENDING AFFORDABILITY AND FISCAL IMPLICATIONS |
| MAJOR ASSUMPTIONS |
| FUNDING SOURCES |
| FUNDING GROWTH |
| GROWTH FUNDING GAP7 |
| EXPENDITURES |
| EXPENDITURE CATEGORIES |
| CIP DEVELOPMENT |
| PROGRAM DESCRIPTION |

CIP PLANNING PROCESS

| WATER TREATMENT/DISTRIBUTION SYSTEMS | 2 |
|--|------------|
| WASTEWATER TREATMENT/COLLECTION SYSTEMS1 | 3 |
| ENVIRONMENTAL CONCERNS | 15 |
| ENVIRONMENTAL SPENDING1 | 6 |
| PUBLIC OUTREACH | 7 |
| THE PLANNING PROCESS | 7 |
| PROJECT DEVELOPMENT AND APPROVAL PROCESS | 9 |
| HOW PROJECTS ENTER THE CIP | 20 |
| DEVELOPMENT SERVICES PROCESS | 21 |
| PROJECT DEVELOPMENT CRITERIA | !1 |
| PROJECT ESTIMATES | 22 |
| PLANNING FOR FUTURE GENERATIONS | 24 |
| | |
| SIX-YEAR PROGRAM EXPENDITURES BY MAJOR CATEGORY CHART | <u>'</u> 5 |
| SIX-YEAR PROGRAM & BUDGET YEAR - FUNDING BY SOURCE CHART | 26 |
| NEW PROJECTS | 27 |
| ALL PROJECTS PENDING CLOSE-OUT | 28 |
| FINANCIAL SUMMARY - TOTAL WSSC CIP | 29 |

PAGE NO.

SECTION 1 - MONTGOMERY COUNTY WATER PROJECTS

| FINANCIAL SUMMARY | | |
|-------------------|--|--|
| ACTIVE PROJECTS | | |
| W- 3.02 | Olney Standpipe Replacement | |
| W- 46.14 | Clarksburg Area Stage 3 Water Main, Parts 1, 2, & 3 | |
| W- 46.15 | Clarksburg Elevated Water Storage Facility | |
| W- 46.18 | Newcut Road Water Main, Part 2 | |
| W- 46.24 | Clarksburg Area Stage 3 Water Main, Part 4 | |
| W-113.19 | Countryside Drive Water Loop | |
| W-138.02 | Shady Grove Standpipe Replacement | |
| W-153.00 | Laytonsville Elevated Tank & Pumping Station | |
| W-200.00 | Land & Rights-of-Way Acquisition - Montgomery County | |
| PROJECTS PENDING | CLOSE-OUT | |
| W-46.13 | Clarksburg Town Center Water Main | |
| | SUMMARY | |
| NEW PROJE | CTS LISTING | |
| ACTIVE PROJECTS | | |
| S- 25.03 | Twinbrook Commons Sewer | |
| S- 38.01 | Preserve at Rock Creek Wastewater Pumping Station | |
| S- 38.02 | Preserve at Rock Creek WWPS Force Main | |
| S- 53.21 | Seneca WWTP Enhanced Nutrient Removal | |
| S- 53.22 | Seneca WWTP Expansion, Part 2 | |
| S- 61.01 | Reddy Branch WWPS Augmentation | |
| S- 84.46 | Clarksburg Triangle Outfall Sewer, Part 1 | |
| S- 84.47 | Clarksburg Triangle Outfall Sewer, Part 2 | |
| S- 84.60 | Cabin Branch Wastewater Pumping Station | |
| S- 84.61 | Cabin Branch WWPS Force Main | |
| S- 84.64 | Casey West Property Sewer Main | |
| S- 84.65 | Tapestry Wastewater Pumping Station | |
| S- 84.66 | Tapestry WWPS Force Main | |

PAGE NO.

MONTGOMERY COUNTY SEWER PROJECTS (Continued)

| | S- 94.11 | Damascus Centre WWPS Replacement Damascus WWTP Enhanced Nutrient Removal | . 2-20 |
|----------|-----------------|---|--------|
| | | | |
| | S-103.15 | White Flint East (North Bethesda Center) Sewer Main | . 2-23 |
| | S-201.00 | Land & Rights-of-Way Acquisition - Montgomery County | . 2-24 |
| PROJECT | TS PENDING CLOS | SE-OUT | |
| | S-49.15 | Rock Creek Wastewater Facilities | . 2-25 |
| | | | |
| SECTION | 3 - BI-COUNTY W | ATER PROJECTS | |
| | FINANCIAL SUMM | ARY | 3-1 |
| | | | 2.2 |
| | NEW PROJECTS I | ISTING | 3-2 |
| ACTIVE F | PROJECTS | | |
| | W- 73.16 | Potomac WFP Improvements | 3-4 |
| | W- 73.18 | Power Reliability and Arc Flash Studies | 3-5 |
| | W- 73.19 | Potomac WFP Outdoor Substation No. 2 Replacement | 3-6 |
| | W- 73.20 | Potomac WFP Stage 2 Disinfection Byproducts Rule Implementation | |
| | W- 73.30 | Potomac WFP Submerged Channel Intake | 3-8 |
| | W-127.01 | Bi-County Water Tunnel | |
| | W-139.02 | Duckett & Brighton Dam Upgrades | |
| | W-161.01 | Large Diameter Pipe Rehabilitation Program | . 3-14 |
| | W-172.05 | Patuxent WFP Phase II Expansion | . 3-17 |
| | W-172.07 | Patuxent Raw Water Pipeline | . 3-18 |
| | W-172.08 | Rocky Gorge Pump Station Upgrade | . 3-20 |
| | W-202.00 | Land & Rights-of-Way Acquisition - Bi-County | . 3-21 |

SECTION 4 - BI-COUNTY SEWER PROJECTS

| FINANCIAL SUMMARY | 4-1 |
|-------------------|-----|
| | |
| | |

ACTIVE PROJECTS

| S- 22.06 Blue Plains WWTP: Liquid Train Projects, Part 2 |
|--|
|--|

PAGE NO.

SECTION 4 - BI-COUNTY SEWER PROJECTS (Continued)

| S- 22.07 | Blue Plains WWTP: Biosolids Management, Part 2 | 4-5 |
|----------|--|--------|
| S- 22.08 | Blue Plains WWTP: Biological Nutrient Removal | 4-6 |
| S- 22.09 | Blue Plains WWTP: Plant-wide Projects | 4-7 |
| S- 22.10 | Blue Plains WWTP: Enhanced Nutrient Removal | |
| S- 22.11 | Blue Plains: Pipelines & Appurtenances | 4-9 |
| S- 89.22 | Anacostia Storage Facility | . 4-10 |
| S- 89.23 | Anacostia No. 2 Screenings Handling Facilities | . 4-12 |
| S-170.06 | Sewer Basin Planning Program | . 4-13 |
| S-170.07 | Wastewater Pumping Station Capacity Evaluation | . 4-14 |
| S-170.08 | Septage Discharge Facility Planning & Implementation | . 4-15 |
| S-170.09 | Trunk Sewer Reconstruction Program | . 4-16 |

SECTION 5 - PRINCE GEORGE'S COUNTY WATER PROJECTS

| INANCIAL SUMMARY |
|---------------------|
| EW PROJECTS LISTING |

ACTIVE PROJECTS

| W- 12.02 | Prince Georg | ge's County HG415 Zone Water Main | 5-3 |
|----------|---------------|---|------|
| W- 34.02 | Old Branch A | ge's County HG415 Zone Water Main Avenue Water Main | |
| W- 69.03 | Accokeek Ele | evated Water Storage Facility | |
| W-111.05 | Hillmeade Ro | evated Water Storage Facility oad Water Main | 5-6 |
| W-119.01 | John Hansor | n Highway Water Main, Part 1 | 5-7 |
| W-123.16 | Marlboro Mea | n Highway Water Main, Part 1 adows System eeland Roads Water Main, Part 2 | |
| W-123.20 | Oak Grove/L | eeland Roads Water Main, Part 2 | 5-10 |
| W-129.12 | Church Road | 1 Water Main & PRV Part 2 | 5-11 |
| W-147.00 | Collington El | evated Water Storage Facility | 5-12 |
| W-147.01 | Marlboro Zor | evated Water Storage Facility ne Water Storage Facility eptual Design Water Projects Clinton Zone Water Storage Facility | 5-13 |
| W-197.00 | DSP & Conce | eptual Design Water Projects | 5-14 |
| | W- 62.04 | Clinton Zone Water Storage Facility | 5-16 |
| | W- 65.09 | Prince George's County High Zone Storage Study | 5-16 |
| | W- 84.02 | Prince George's County High Zone Storage Study Prince George's High Zone Water Main | 5-16 |
| | W- 84.03 | Smith Home Farms Water Main | |
| | W- 93.01 | Konterra Town Center East Water Main | |
| | W-105.01 | Marlton Section 18 Water Main, Lake Marlton Avenue | |
| | W-109.09 | Central Avenue Pumping Station Expansion | 5-16 |
| | | | |

PAGE NO.

PRINCE GEORGE'S COUNTY WATER PROJECTS (Continued)

| | W-120.14 Lakeview at Brandywine Water Main, Part 1 | |
|----------------------|---|--|
| | W-120.15 Lakeview at Brandywine Water Main, Part 2 | |
| | W-120.16 Lakeview at Brandywine Water Main, Part 3 | |
| | W-120.18 Mattawoman/Brandywine Commerce Center, Part 6 | |
| | W-120.19 Mattawoman/Brandywine Commerce Center, Part 7 | |
| | W-123.14 Old Marlboro Pike Water Main | |
| | W-137.01 South Potomac Supply Improvement | |
| | DSP Project Maps | |
| W-204.00 | Land & Rights-of-Way Acquisition - Prince George's County | |
| PROJECTS PENDING | CLOSE-OUT | |
| W-140.01 | Sheriff Road Water Main Replacement | |
| | | |
| SECTION 6 - PRINCE (| GEORGE'S COUNTY SEWER PROJECTS | |
| | | |
| FINANCIAL S | SUMMARY | |
| NEW PROJE | CTS LISTING | |
| ACTIVE PROJECTS | | |
| S- 43.02 | Broad Creek WWPS Augmentation | |
| S- 57.92 | Western Branch Facility Upgrade | |
| S- 57.93 | Western Branch WWTP Enhanced Nutrient Removal | |
| S- 75.21 | Mattawoman WWTP Upgrades | |
| S- 77.18 | Parkway WWTP Enhanced Nutrient Removal | |
| S- 77.19 | Parkway WWTP Biosolids Facility Plan | |
| S- 96.12 | Piscataway WWTP Enhanced Nutrient Removal | |
| S-187.00 | DSP & Conceptual Design Sewer Projects | |
| | S- 28.18 Konterra Town Center East Sewer | |
| | S- 28.19 Konterra Town Center East Sewer, Part 2 | |
| | S- 68.01 Landover Mall Redevelopment | |
| | S- 75.19 Brandywine Woods Wastewater Pumping Station | |
| | S- 75.20 Brandywine Woods WWPS Force Main | |
| | S- 86.19 Karington Subdivision Sewer | |
| | S- 87.15 Rodenhauser Wastewater Pumping Station | |
| | S- 87.16 Rodenhauser WWPS Force Main | |
| | S- 89.19 Greenbelt Station Trunk Sewer | |
| | S-114.06 Science Center WWPS & Green Branch WWPS Upgrade | |

PAGE NO.

PRINCE GEORGE'S COUNTY SEWER PROJECTS (Continued)

| | S-114.15 MD Science & Technology Center Force Main & Trunk Sewer | |
|---------------------|---|------|
| | S-114.23 Maryland Science & Technology Center Trunk Sewer | |
| | S-131.05 Ridges III Sewer Main | |
| | S-131.07 Pleasant Valley Sewer Main | |
| | S-131.08 Preserves of Piscataway WWPS | |
| | S-131.09 Preserves of Piscataway Force Main | |
| | S-149.00 Mataponi Wastewater Pumping Station | |
| | S-149.01 Mataponi WWPS Force Main | |
| | DSP Project Maps | |
| S-205.00 | Land & Rights-of-Way Acquisition - Prince George's County | |
| PROJECTS PENDING C | | |
| S- 75.13 | Lakeview at Brandywine Sewer | 6-22 |
| S- 75.17 | Mattawoman WWTP Enhanced Nutrient Removal | 6-22 |
| 0 /0.17 | | 0 22 |
| | | |
| SECTION 7 - INFORMA | TION ONLY PROJECTS | |
| FINANCIAL SU | JMMARY | |
| NEW PROJEC | TS LISTING | |
| ACTIVE PROJECTS | | |
| W- 1.00 | Water Reconstruction Program | 7-3 |
| S- 1.01 | Sewer Reconstruction Program | 7-5 |
| A-102.00 | Engineering Support Program | 7-7 |
| A-103.00 | Energy Performance Program | 7-8 |
| A-103.01 | Anaerobic Digestion/Combined Heat & Power (Seneca & Piscataway WWTPs) | 7-11 |
| A-104.00 | Entrepreneurial Projects | |
| A-105.00 | Water Storage Pacility Rehabilitation Program | |
| A-106.00 | Utility Master Plan | |
| A-107.00 | Pressure Reducing Valve Rehabilitation Program | |
| | | |

APPENDICES

- A. WSSC Resolution No. 2010-1873 and CUS 98-01, System Development Charge Levy and Collection
- B. SP ENG 04-01, SDC Applicant Credits and Reimbursements
 C. SP PD 93-01, Procedure for Determining Percent Growth for CIP Projects
- D. SDC Eligible Projects

WASHINGTON SUBURBAN SANITARY COMMISSION ADOPTED CAPITAL IMPROVEMENTS PROGRAM FISCAL YEARS 2011-2016

LEGAL AUTHORITY AND RESPONSIBILITY

Statutory Basis

Under Article 29, Washington Suburban Sanitary District, Title 7, WSSC Capital Improvements Program, Annotated Code of Maryland, the Washington Suburban Sanitary Commission (WSSC) is responsible for annually preparing a Six-Year Capital Improvements Program (CIP) for major water and sanitary sewerage facilities and transmitting it to the County Council and the County Executive of Montgomery County and the County Executive of Prince George's County by October 1 each year. The Commission, where required by the two County Councils' final action on the program, must revise the same and then, prior to the commencement of the first fiscal year of the six-year program, adopt the Capital Improvements Program.

Article 29 as amended by Chapter 685 (1987) defines major projects for inclusion in the CIP as water mains at least 16 inches in diameter, sewer mains at least 15 inches in diameter, water or sewage pumping stations, force mains, storage facilities, and other major facilities. Project information presented in this document complies with all legal requirements of the ten-year water and sewerage plans and is in direct support of the two counties' approved land use plans and policies for orderly growth and development. The Adopted FYs 2011-2016 CIP reflects the actions of the Prince George's County Council by Resolution No. CR-37-2010 dated May 27, 2010, and the Montgomery County Council by Resolution No. 16-1379 dated May 27, 2010. By WSSC Resolution No. 2010-1875 dated June 16, 2010, the Commission adopted the FYs 2011-2016 CIP as amended.

WSSC's Role

The Commission is a bi-county agency established in 1918 by an act of the Maryland General Assembly. The WSSC is responsible for planning, designing, constructing, operating, and maintaining water and sewerage systems, and acquiring facility sites and rights-of-way in order to provide potable water and sanitary sewer services to residents, businesses, and federal, state, and local municipalities within the Washington Suburban Sanitary District (WSSD). The WSSD encompasses nearly all of Montgomery and Prince George's Counties and provides water and sewer service to approximately 1.8 million customers in an area of nearly 1,000 square miles. A board of six commissioners directs the WSSC, three appointed by the County Executive of Prince George's County and confirmed by the Prince George's County Council, and three appointed by the Montgomery County Executive and confirmed by the Montgomery Council. Commissioners serve four-year staggered terms.

WSSC's Responsibilities

The WSSC's primary responsibilities include:

- protecting the health and safety of the residents of both counties by providing an adequate supply of safe drinking water;
- meeting fire-fighting requirements;
- collecting and adequately treating wastewater before it is returned to the waters of the State of Maryland;
- managing and safeguarding the watershed and the water supply by implementing sound forestation and land use practices, and by discouraging development within the watershed buffer;
- monitoring the collection and treatment of wastewater;
- discharging an effluent cleansed of nutrients, pollutants, and hazardous materials;
- managing treated wastewater solids responsibly;
- maintaining the existing water and wastewater systems;
- planning for the orderly growth of the Sanitary District and WSSC services to meet the needs of the communities it serves;
- monitoring adherence to all plumbing and gasfitting standards and ensuring proper coordination with other public utilities; and
- managing operations to provide efficient service to its customers while keeping costs as low as possible.

The projects contained in this Capital Improvements Program represent the WSSC's plan to successfully meet its responsibilities. The WSSC strives to maintain a balance between the use of valuable, resources and the public's demand for clean water.

PROGRAM OVERVIEW

Objective

The principal objective of the Capital Improvements Program (CIP) is the six-year programming of planning, design, land acquisition, and construction activities on a yearly basis for major water and sewerage facilities. These facilities may be necessary for system improvements and/or service to existing customers, to comply with federal and/or state environmental mandates, and to support new development in accordance with the counties' approved plans and policies for orderly growth and development.

Spending Affordability and Fiscal Implications

Projects in this CIP are primarily financed with funds from the Water Supply and Sewage Disposal Bond Funds. The Commission largely finances these projects with the proceeds from the sale of long-term debt. Water supply bonds are issued to finance the planning, design, and construction of major water treatment, storage, and transmission facilities. Sewage disposal bonds are issued to finance the planning, design, and construction of major sewage collection, treatment, and disposal facilities.

The water supply and sewage disposal bonds are repaid to bond holders over a 20-year period by annual principal and interest payments known as debt service. In this manner, the initial high cost of capital improvements is spread over time and paid for by future customers who will benefit from the facilities, as well as by current customers. The annual debt service on outstanding bonds is paid from the Commission's operating funds. The primary funding source for the repayment of debt is the revenue generated by water consumption and sewer use charges. Water and sewer charges are set on an annual basis to cover both operational and debt service costs (associated with the water supply and sewage disposal bonds) of the Commission. It is through this capital project financing process that the size of the CIP impacts the size of water and sewer bond issues, the associated debt service costs, and, ultimately, our customers' water and sewer bills.

Several capital spending and funding practices are noteworthy. The Commission:

- continues an aggressive program to rehabilitate or replace the older portions of the Commission's 5,500 miles of water mains and 5,400 miles of sewer mains;
- finances capital facilities needed to accommodate growth with the System Development Charge (SDC). This charge is reviewed annually by the County Councils. (Refer to Appendices A and B for details. A comparison of SDC revenues and estimated growth spending for the six-year program period is displayed on the table titled "Growth Funding Gap" in the Funding Growth section of this document.);

- uses PAYGO (Pay-As-You-Go): the practice of using current revenues to the extent practical to help fund the capital program, thereby reducing the need for debt financing;
- maximizes and manages the collection of funding from alternative sources including state and federal grants, and payments from other jurisdictions for projects which specifically benefit them. The amount of these collections varies from year to year. The WSSC's reliance on rate-supported debt to build the capital program is reduced to the extent that these sources are available to help fund capital projects; and
- does not allow the use of rate-supported debt to fund CIP-sized water and sewer projects requested by Applicants in support of new development. These projects, identified as Development Services Process (DSP) projects, may only proceed if built at the Applicant's expense. (An explanation of the DSP process is included in the Development Services Process section of this document.) However, since these projects are eligible for SDC credits (to the extent that SDC funds are available), the Applicants should eventually recoup their costs. (Refer to Appendix B for definitions and details.)

In May 1993, the Montgomery and Prince George's County Councils created the Bi-County Working Group on WSSC Spending Controls (Working Group) to review WSSC finances and recommend spending control limits. The Working Group's January 1994 report recommended "the creation of a spending affordability process that requires the Counties to set annual ceilings on the WSSC's rates and debt (debt in this context means both bonded indebtedness and debt service), and then place corresponding limits on the size of the capital and operating budgets of the Commission." The objective of this process is to create a framework for controlling costs and achieving low or moderate water/sewer bill increases, as well as slowing the rate at which the WSSC is incurring debt, thus reducing the portion of WSSC water/sewer bills dedicated to paying off debt. This valuable process focuses debate on the need to balance affordability considerations against providing the resources necessary to serve existing customers, meet environmental mandates, and provide the facilities needed for growth.

The Commission has submitted a CIP and budget, which generally conforms to the Spending Affordability Guidelines (SAG) established by both county governments since 1994. Over the five-year period from FY'96 through FY'00, CIP spending was reduced by a total of \$85.9 million. Over the period from FY'01 to FY'07, the Commission submitted budgets that did not require any further reductions. For the FY'08 CIP, capital reductions totaling \$44.8 million were made to meet Spending Affordability Guidelines. The FY'09 CIP did not require any reductions. For the FY'10 CIP, capital reductions and deferrals totaling \$51 million were made to the CIP.

The FY'11 expenditures are estimated at \$332.9 million, which represents an increase of approximately \$118.5 million from the approved funding level for FY'10. The primary reasons for the increase are due to the addition of the new Trunk Sewer Reconstruction Program and the ramping up of construction work for the Patuxent Water Filtration Plant Expansion, Duckett Dam Upgrades, and the Western Branch WWTP projects.

Major Assumptions

The primary assumptions guiding the overall preparation of the WSSC's CIP include:

- postponing projects where there is no impact to existing customers;
- giving funding priority to projects under construction and to projects deemed critical to meeting established service levels; and
- displaying contributed funding for all Development Services Process projects (100% growth) which, by law, are to be built solely at the Applicant's expense.

The WSSC's mission is to provide safe and reliable water to our customers and to return clean water to the environment in an ethically and financially responsible manner. The Commission, in working with the county governments, has been successful in carrying out this mission and meeting spending affordability limits.

Funding Sources

The projects included in this Capital Improvements Program are funded primarily by issuance of water and sewer rate-supported debt (WSSC Bonds). To a lesser degree, projects may also be funded by the following:

- State Grants a share of the support provided on a local level in conjunction with the Federal Grants Program. The State of Maryland also provides additional funding under a separate grants program for nutrient removal at existing wastewater treatment plants as part of the Chesapeake Bay Program and Federal Clean Water Act. Additional funding from the state for projects needed to meet environmental mandates will be pursued;
- Local Government Contributions payments to the WSSC for co-use of regional facilities, or funding provided by county governments for projects they are sponsoring;
- PAYGO the practice of using current revenues to the extent practical to help fund the capital program, thereby reducing the need for debt financing;
- SDC anticipated revenue from the System Development Charge (SDC); and
- Contribution/Other projects funded by Applicants for growth projects where the County Councils directed that no WSSC rate-supported debt is used to pay for the project.

A graph is provided on page 26 which displays the funding allocations for the major funding categories.

Funding Growth

The portion of the CIP needed to accommodate growth is approximately \$282 million, which equals 15% of all expenditures in the six-year program. The major funding sources for this part of the program are System Development Charge (SDC) revenues and payments by Applicants. In the event that growth costs are greater than the income generated by growth funding sources, rate-supported water/sewer bonds may be used to close any gap.

The Maryland General Assembly, in 1993, first approved legislation authorizing the Montgomery and Prince George's County Councils to establish, and the WSSC to impose, a System Development Charge. This is a charge on new development to pay for that part of the Commission's Capital Improvements Program needed to accommodate growth in the WSSC's customer base. In accordance with the enabling legislation, the Councils approved, and the Commission began to phase in, this charge beginning in FY'94. The SDC charge was eventually approved at the maximum rate of \$160 per fixture unit by Commission Resolution No. 95-1457, adopted May 24, 1995, and became effective July 1, 1995. In the 1998 legislative session, the General Assembly modified the charge by passage of House Bill 832 setting the fee at \$200 per fixture unit with a provision for annual inflation adjustments. Subsequent resolutions have established a process for approving partial and full exemptions for elderly housing and biotechnology properties, as well as exemptions for properties in designated economic revitalization areas and for youth facilities. For FY'11, the Prince George's and Montgomery County Councils increased the maximum allowable charge by the 2.1% increase in the CPI, but maintained the current rate of \$203 per fixture unit by Resolution Numbers CR-41-2010 approved May 27, 2010, and, 16-1353 approved May 19, 2010, respectively. The Commission adopted the Councils' actions by Resolution Number 2010-1873 dated June 16, 2010. Policies and information associated with the System Development Charge are included in this document as Appendices A, B, C, and D.

It is estimated that there will be an overall growth funding gap of \$138.3 million over the six-year program period. The gap between growth funding sources (SDC, developer contributions, and Applicant payments under System Extension Permits) and the estimated growth-related expenditures vary over the six-year period. Further, it is anticipated that additional growth projects will evolve in the later years of the six-year period. (A listing of SDC-eligible projects is included in Appendix D.)

An estimate of the gap or surplus for each fiscal year is presented in the table that follows. To estimate the gap/surplus for an individual fiscal year, it is assumed that 80% of the eligible expenditures will actually be incurred in a given year due to scheduling and other delays. The projected gap/surplus is the difference between the eligible expenditures adjusted for completion and the sum of the various funding sources.

| | <u>GROWTH FUNDING GAP</u> (In Millions) | | | | | | |
|---|--|--------------------------------|---------------------------------------|--------------------------------|-------------------------------|-------------------------------------|--|
| CIP GROWTH EXPENDITURES Expenditures Adjusted for Completion | FY'11 \$82.4 65.9 | FY'12 \$88.3 87.1 | <u>FY'13</u> \$78.2 80.3 | FY'14 \$28.7 38.6 | FY'15 \$2.6 7.8 | <u>FY'16</u> \$1.8 1.9 | 6 YEAR <u>TOTAL</u> \$282.0 281.6 |
| FUNDING SOURCES Privately Funded Projects Estimated SDC Revenue Less SDC Developer Credits Less SDC Exemptions ¹ | 9.8 22.4 (2.4) (1.0) | 8.4 22.5 (2.4) (1.0) | 3.3 22.6 (2.4) (1.0) | 1.1 23.4 (2.4) (1.0) | 1.3 23.6 (2.4) (1.0) | 1.2 24.1 (2.4) (1.0) | 25.1 138.6 (14.4) (6.0) |
| TOTAL FUNDING SOURCES | \$28.8 | \$27.5 | \$22.5 | \$21.1 | \$21.5 | \$21.9 | \$143.3 |
| FUNDING GAP ADJUSTED FOR COMPLETION | \$37.1 | \$59.6 | \$57.8 | \$17.5 | (\$13.7) | (\$20.0) | \$138.3 |

¹Each County may grant SDC exemptions for biotechnology, elderly, or revitalization projects totaling up to \$500,000 per fiscal year as provided for in Maryland State Law (Article 29, Section 6-113(c)(iv)). Unused exemption amounts are available for use in future fiscal years. Cumulative unused SDC exemptions totaled approximately \$3.5 million for Montgomery County and \$3.8 million for Prince George's County through April 30, 2010.

Expenditures

The FYs 2011-2016 Capital Improvements Program includes 96 projects for a grand total of nearly \$2.9 billion dollars. Expenditures for the six-year program period are estimated at \$1.9 billion. FY'11 expenditures are estimated at \$332.9 million, which is \$118.5 million greater than the funding level approved for FY'10. Of the \$332.9 million, \$102.3 million is for the Water Program and \$230.6 million is for the Sewerage Program. Nearly half of the projects in this CIP are Development Services Process (DSP) growth projects. The DSP projects' estimated six-year program cost is \$25.9 million, with approximately \$12.7 million programmed in FY'11, approximately the same amount approved last year. There are 9 new CIP projects and one new Information Only project, totaling \$598.0 million in the six-year program period. These projects are shown on the New Projects Listing near the end of this section. A table comparing the Adopted FYs 2010-2015 CIP to the Adopted FYs 2011-2016 CIP follows:

WSSC CIP - ALL PROGRAMS

| | (In The | ousands) | |
|-----------------------|-------------|----------------|------------------------|
| | TOTAL | TOTAL | BUDGET YEARS |
| | PROJECTS | <u>6 YEARS</u> | <u>FY'10 vs. FY'11</u> |
| Adopted FYs 2010-2015 | \$2,031,569 | \$1,223,084 | \$214,431 |
| Adopted FYs 2011-2016 | 2,884,605 | 1,896,373 | 332,851 |
| Change | \$853,036 | \$673,289 | \$118,420 |

Six-year program expenditures are estimated at approximately \$1.9 billion, \$384 million for the Water Program and \$1.5 billion for the Sewerage Program. This is a \$673.3 million increase from the six-year total in the Adopted FYs 2010-2015 CIP. The net increase is primarily due to the addition of the new Trunk Sewer Reconstruction and Large Diameter Pipe Rehabilitation Programs, partially offset by the Potomac Water Filtration Plant Improvements and Bi-County Water Tunnel projects moving forward through construction.

Expenditure Categories

Expenditures are divided into three main categories: projects needed for growth, projects needed to implement environmental regulations, and projects needed for system improvements. The categories are defined as follows:

<u>Growth</u> – any water or sewerage project, or part of a project, that increases the demand for treatment and delivery of potable water and/or increases system requirements to collect and treat more sewage in response to new, first time, service hookups to the WSSC's existing customer base.

<u>Environmental Regulations</u> – any improvement to an existing facility which is required to meet changes in federal regulations, such as the Clean Water Act, or in response to more stringent state operating permit requirements, but does not increase system capacity. Any part of this type of a project that provides for additional capacity is for growth.

<u>System Improvements</u> – any project which improves or replaces components of existing water and sewerage systems or provides for mainline relocations required in response to county or state transportation department road projects where the intended purpose is not to increase the capacity of any system components. This category also includes program-sized water main extensions for which the primary function is to provide water supply redundancy to pressure zones or smaller areas in the Sanitary District. Any part of this type of a project not dictated by

maintenance or rehabilitation needs and that provides for additional capacity is for growth. (Refer to Figure 3, which displays funding allocations for all three categories.)

CIP Development

The CIP production cycle spans 13 months, beginning in May of each year. The organizational units responsible for project initiation submit project description forms (commonly referred to as PDFs) to the WSSC's Finance Office (Budget Group). The proposals, expenditures, and schedules displayed on each PDF represent the WSSC's best estimate of the cost and the time it will take to plan, design, and construct a project. These submissions are comprehensively reviewed with the General Manager/CEO and Senior Staff each June to assess the addition of new projects, changes in cost or scope, criticality, priority, environmental sensitivity, adherence to county growth and public outreach policies, and construction schedule changes.

Following this comprehensive review, worksessions are conducted by the WSSC Budget Group with the Prince George's and Montgomery County Governments, Maryland-National Capital Park and Planning Commission (M-NCP&PC), and local municipality representatives to solicit their input, and a draft document is presented to the WSSC's Commissioners for their consideration. Draft CIP Public Hearing documents are published and distributed and the Commissioners' public hearings are held in September. The hearings are advertised in a major newspaper circulated in Prince George's and Montgomery Counties, and special notices are sent to the Prince George's and Montgomery Counties' State Senators and Delegates, County Council members, County Government and M-NCP&PC staffs, civic associations, building and industry associations, civic federations, environmental groups, and the WSSC's Customer Advisory Board. In addition, a notice is included with each water bill mailed to WSSC customers throughout the months of June, July, and August inviting them to participate in the public hearings. After considering all relevant comments, the Commissioners approve the Proposed CIP document for transmittal to both county governments on or before October 1, in accordance with state law.

After January of the following year, the Prince George's and Montgomery County Executives transmit their recommendations to their respective County Councils. Each County Council conducts separate public hearings and worksessions to consider additional modifications to the Proposed CIP. On or before May 15th, the County Councils meet jointly to agree on required changes, and on or before June 1st each year, enact formal resolutions identifying project modifications and approving the addition of new projects. The WSSC then adopts these changes and additions before the beginning of the new fiscal year on July 1. If the Councils do not jointly agree on changes by June 1, under law, the CIP is approved as proposed by the WSSC.

Program Description

Individual project information is displayed on the project description forms. The content of these forms, as prescribed under Article 29, Section 7-103, of the Annotated Code of Maryland, includes as applicable: estimated diameter, length, and location of pipelines; design capacity and approximate location; maximum population and area to be served; project justification; project expenditure schedule showing the estimated cost and funding sources; and a map. Project description forms are organized within the following major sections: Montgomery County Water, Montgomery County Sewer, Bi-County Water, Bi-County Sewer, Prince George's County Water, Prince George's County Sewer, and Information Only Projects. A financial summary of expenditures by major section is included at the end of this narrative. Project number prefixes indicate a water (W-), sewerage (S-), or administrative (A-) project. Administrative projects are included in the Information Only section and refer to projects that may include a combination of water and sewerage sub-projects.

Each major section includes a financial summary for the projects in that section, a list of new projects, a PDF for each project, and a list of projects that are being closed out in the section. Several of the sections also contain "composite" PDFs that include multiple, active projects on one form. In the Prince George's County Water and Sewer Projects sections, conceptual design projects are combined with Development Services Process projects onto composite project forms (W-197.00 and S-187.00, respectively). The conceptual design projects are in the final stages of facility planning or early design, for which reliable design and construction costs and completion schedules were not available when the CIP was prepared. The WSSC's intent is to begin preliminary design for projects requiring final planning phase approval, consultant design contract negotiations, sub-surface investigations, and land and rights-of-way acquisition. Further, these projects may require in-house review and county government interaction as detailed design data is developed. As projects progress beyond the 30% design stage for facility projects and the 60% design stage for pipeline projects, a separate, stand-alone PDF may be prepared for display in the next CIP cycle. These projects will include updated costs and completion schedules.

Anticipated land and rights-of-way acquisition costs are consolidated onto composite PDFs (refer to W/S-200.00 series). This format provides flexibility in expending funds in a specific fiscal year and permits the WSSC to respond to the uncertainty of implementation schedules, unpredictable delays, unanticipated rights-of-way requirements, and the need to assure the WSSC an equitable negotiation position by avoiding project-specific cost displays prior to contacting property owners. When a land purchase has been concluded, this cost is transferred back to the individual project.

A Projects Pending Close-Out List is included at the end of each major section. Each list contains projects which were approved and included in the prior adopted CIP, but which do not appear in this program for reasons such as expected construction completion or project cancellation.

The CIP document also contains an Information Only Projects Section. Projects in this section are not required to be in the program under Article 29 of the Annotated Code of Maryland, but may be included for any number of reasons such as: fiscal planning purposes; the reader's improved understanding of the full scope of a specific set of projects; or responding to requests from county governments. Expenditures for Information Only projects are not included as part of the CIP six-year program costs, but are shown separately on the bottom line of the financial summary at the end of this section for informational purposes.

Funding requirements for the first year of the six-year program, as shown on each project description form (PDF) in Block B, Column 12, are included in the Commission's capital and operating budgets. In addition to approving a six-year CIP, the Montgomery and Prince George's County Governments also annually review and approve the WSSC's capital and operating budget.

The following symbols are used on the individual project maps to represent different types of water and sewerage system components:

Water Main/Gravity Sewer
Water/Wastewater Pumping Station
Sewage Force Main
Water/Sewage Storage Facility
Water/Sewage Storage Facility
Water Filtration Plant Project
Wastewater Treatment Plant Project
Study Area or Undetermined Site Locations

CIP PLANNING PROCESS

Water Treatment/Distribution Systems

The provision of potable water involves three major areas: supply, treatment, and distribution. The Potomac and Patuxent Rivers are the two sources of water supply for the Washington Suburban Sanitary District (WSSD), with the majority of water coming from the Potomac. Raw water is taken directly from the natural flow of the Potomac River into the Potomac Water Filtration Plant in Montgomery County. Water from the Patuxent River is impounded in two reservoirs by the Brighton and T. Howard Duckett Dams, which are the sources of supply to the Patuxent Water Filtration Plant in northern Prince George's County. The Triadelphia and T. Howard Duckett reservoirs have a combined storage capacity of approximately 10.2 billion gallons of water. The two filtration plants have produced an average of 168 million gallons of potable water per day over the last five fiscal years.

The natural flow in the Potomac River can be augmented during low flow conditions by two other reservoirs. The Jennings Randolph Reservoir impounds 13 billion gallons of emergency raw water supply. The reservoir is located on the North Fork of the Potomac River in West Virginia, and is owned and operated by the U.S. Army Corps of Engineers. Little Seneca Lake in Montgomery County provides an additional 3.8 billion gallons of useable raw water storage, and is owned and operated by the WSSC. Both reservoirs are shared by users in the Washington Metropolitan area, including the U.S. Army Corps of Engineers, the Fairfax County Water Authority, and the WSSC. Withdrawal during low flow conditions is restricted by the terms of the Potomac Low Flow Allocation Agreement of 1981, and is administered by the Interstate Commission on the Potomac River Basin.

As raw water enters a plant, it goes through several stages of filtration and purification. Much of the finished water produced at the WSSC's plants has to be pumped into the distribution system. Pumping stations are strategically located throughout the Sanitary District to help move water to higher topographic elevations to maintain adequate system pressure. The WSSD is divided into 17 major pressure zones that represent hydraulically separated segments of the water system. The pipelines within each of the zones must be designed to serve not only customers within the confines of that zone, but also customers in adjacent interconnected zones. Water to zones at higher elevations must be pumped; water to lower elevations must be closely controlled with pressure regulating valves. A system under pressure enables the pipes to be laid uphill or downhill, with the flow direction independent of the slope of the ground. The design and operation of a water system is a complex task which requires detailed knowledge of the interrelationships between the source of supply, the location of pumping stations, pump characteristics, pressure reducing valves, storage facilities, pipe diameters and capacity characteristics, consumption patterns throughout the day, operating techniques and costs, and location of our customers spread out over our 1,000 square mile service area.

More than 40 elevated tanks, standpipes, and ground-level storage structures in the distribution system are filled with finished, filtered water to meet daily peak customer demand and to provide reserves for fire protection and emergencies. A network of more than 5,500 miles of underground

water pipeline delivers water to homes, apartments, schools, hospitals, businesses, and all other types of buildings where water meters measure the amount of water used. Customers are billed based upon individual usage. These facilities are operated and maintained by the WSSC 24 hours a day, 7 days a week, including holidays throughout the year, in order to provide safe and reliable service to our customers.

Wastewater Treatment/Collection Systems

Wastewater facilities are divided into two functions: treatment and conveyance of sewage. Sewage treatment is accomplished through a network of facilities, the base of which is the regional treatment plant. The WSSC owns and operates 7 wastewater treatment plants, which receive and process waste from residences, businesses (where waste is a by-product of the manufacturing process), restaurants, hospitals, and other commercial and industrial users.

During the treatment process, solid material is removed, harmful organisms are destroyed, and excess disinfection products are neutralized before the remaining liquid is sent back to the river. The WSSC's 7 treatment plants have a combined treatment capacity of 89 million gallons per day (mgd). These plants include Piscataway, Western Branch, Marlboro Meadows, Parkway, Seneca, Damascus, and Hyattstown. Unlike the water system, operation of the sewerage system is highly dependent upon other area jurisdictions and, for this reason, the WSSC has purchased 169 mgd of treatment capacity at the Blue Plains Regional Wastewater Treatment Plant located in the District of Columbia, 3 mgd of capacity at the Mattawoman Wastewater Treatment plant located in northern Charles County, and 20,000 gallons per day of capacity in the Town of Poolesville's wastewater treatment plant. The capital costs of the Blue Plains and Mattawoman plants are shared among the users based upon treatment capacity allocations. The WSSC also pays to the District of Columbia and Charles County a share of the operating, maintenance, and overhead costs at each plant, in proportion to actual flows. These cost-sharing arrangements were agreed to in the Intermunicipal Agreement of 1985 and the Mattawoman Agreement of 1980, respectively. Sewer capacity purchased by the WSSC in the Poolesville plant is in accordance with the May 1984 agreement between the WSSC, the Town of Poolesville, and the Montgomery County Government to alleviate health hazards from failing septic systems in the Jonesville and Jerusalem communities. The 7 WSSC-owned-and-operated plants were built to augment treatment in the Blue Plains service area and to serve areas that are out of reach of the Blue Plains system.

The other function of the sewerage system is to convey waste flows from the point of origin (for example, from a customer's home) to a point of treatment. The sewerage network contains more than 5,400 miles of pipeline, with pipe sizes ranging from 6 to 102 inches in diameter, and is predominantly a gravity system. This means the flow travels in a downhill direction without any other help and, therefore, sewers need to be located generally along streambeds at the lowest elevation in a basin. The sewers in one drainage basin are independent of those in other basins. There are 13 major drainage basins in the Sanitary District.

The largest diameter pipelines (interceptor sewers) run from the treatment plant to the major lines (trunk lines) within individual drainage basins. Smaller diameter pipelines (outfall) run up sub-basins from the major lines. Even smaller lines (lateral), usually built in or along subdivision

streets to provide service to abutting properties, lead to hundreds of thousands of individual service connections (hookups from the pipe in the street to a private home or building) to be served by the remainder of the conveyance system. Ideally, the entire system would provide for the gravitational flow of waste from the individual houses, businesses, and other sources through the subdivision lines to the outfall pipelines to the larger diameter main lines to the treatment plant. Because gravity cannot always be used to accomplish this ideal pattern of flow, the WSSC has more than 40 wastewater pumping stations in operation, and others in standby status, throughout the Sanitary District. These pumping stations range from 0.08 to 306 mgd in capacity. Pumping stations lift wastewater through a pressure line called a force main, over ridges or from stream valleys that have no continuous trunk sewer, into the gravity-flow system of an adjacent drainage basin that contains existing pipeline and treatment facilities. Pipeline projects to extend service to new customers and to augment the service capability of this network are among the most numerous types in this document. These facilities are also operated and maintained by the WSSC 24 hours a day, 7 days a week, including holidays throughout the year, in order to provide safe and reliable service to all of our customers.

Approximately 65% of all wastewater originating in Montgomery County and central Prince George's County follows the Anacostia, Rock Creek, and Potomac River Valleys, to the Blue Plains Wastewater Treatment Plant. All WSSC wastewater flows through enclosed trunk line systems. The WSSC's proportionate share of capital costs to meet suburban Maryland's treatment requirements represents major expenditure appropriations in this document.

In addition, small pressure systems exist throughout the Sanitary District. A typical system is comprised of a grinder pump (one for each dwelling unit grouped in a small residential development) contained in a 60-gallon sump, pumping 11 gallons per minute through a 1¹/₄-inch diameter plastic force main, and then connecting to a gravity sewer line located nearby. This type of system is limited in size, and is necessary to overcome minor changes in topography to avoid the construction of a conventional gravity line in another direction where the distance to an existing sewer would be considerably greater and less cost effective.

The WSSC's wastewater collection and treatment systems are nationally recognized as components of one of the country's most effective pollution control networks. All of the above-mentioned sewage treatment plants go beyond conventional, second-stage treatment to provide "tertiary treatment," which is an advanced treatment process. With the completion of the Piscataway WWTP's biological nutrient removal (BNR) project in 2004, all of the WSSC's plants now have integrated nutrient removal processes to significantly reduce the amount of nitrogen and phosphorous reaching the Chesapeake Bay. These features ensure that the quality of the effluent (treated wastewater discharged from the plants) is <u>better</u> than the natural waters into which it is returned. The purpose of the projects contained in this document and their associated cost is to expand, replace, or rehabilitate the existing water and sewerage systems described above; to continue a very high level of continuous service and reliability; and to protect the health of current and new customers, while mitigating impacts on the environment.

Environmental Concerns

By adoption of a resolution dated January 29, 1992, the Commission reaffirmed its commitment to protect the natural environment of Prince George's and Montgomery Counties as it carries out its mandate to provide sanitary sewer and drinking water services. This commitment focuses on those unique natural and manmade features (waterways, woodlands, and wetlands, as well as parklands, historical sites, and residential areas) that have been indicated by federal, state, and local environmental protection laws and regulations. Specific impact information must accompany the evaluation of all alternatives during the Commission's Facility Planning Process, if the environment features will be affected by the proposed construction of a project. Six areas are addressed as appropriate:

- Stream Valleys identify the classification of the stream and, in general terms, the published water quality. From published maps, show the topography including the 100-year floodplain;
- Wetlands (Tidal and Non-tidal) using published maps, show the locations of these and give their classification;
- Woodlands or Forested Areas using aerial photographs or published maps, show the location of these and identify their type;
- Parklands using published maps, show the location of all land holdings of the Maryland-National Capital Park and Planning Commission, the Department of Natural Resources, and the National Park Service;
- Steep Slopes using published maps, show all slopes greater than 15%; and,
- Historical/Archaeological Sites the Maryland Geological Survey (State Archaeologist) and Maryland Historical Trust will provide information on sites near the project alternatives. The Maryland-National Capital Park and Planning Commission or county government may provide additional information of local interest.

A further extension of these protections has been funded by the approximately \$540 million included in the six-year program which is attributable to meeting environmental regulations. These projects, currently estimated at 28% of the total six-year costs in this CIP, are mandated by the U.S. Environmental Protection Agency and the State of Maryland in response to pollution controls embodied in the Federal Clean Water Act and to more stringent state discharge permit requirements. The environmental component is allocated among the projects listed below, and project details can be found on the individual project description forms included elsewhere in this document.

Environmental Spending

| | | (dollars in millions) |
|----|--|-----------------------|
| ٠ | W-73.16, Potomac WFP Improvements | \$0.5 |
| • | W-73.20, Potomac WFP Stage 2 Disinfection Byproducts Rule Implementat | ion 7.1 |
| • | W-172.05, Patuxent WFP Phase II Expansion | 21.1 |
| ٠ | S-22.08, Blue Plains WWTP: Biological Nutrient Removal | 23.9 |
| ٠ | S-22.10, Blue Plains WWTP: Enhanced Nutrient Removal | 349.1 |
| ٠ | S-22.11, Blue Plains: Pipelines & Appurtenances | 34.8 |
| ٠ | S-53.21, Seneca WWTP Enhanced Nutrient Removal | 11.0 |
| ٠ | S-57.93, Western Branch WWTP Enhanced Nutrient Removal | 33.3 |
| ٠ | S-77.18, Parkway WWTP Enhanced Nutrient Removal | 17.9 |
| ٠ | S-89.22, Anacostia Storage Facility | 30.7 |
| ٠ | S-94.12, Damascus WWTP Enhanced Nutrient Removal | 4.2 |
| ٠ | S-96.12, Piscataway WWTP Enhanced Nutrient Removal | 6.4 |
| ٠ | S-170.07, Wastewater Pumping Station Capacity Evaluation | <u>0.1</u> |
| То | tal Six-Year Program Expenditures Allocated to Environmental Regulations | \$540.1 |
| То | tal Six-Year Program Expenditures Allocated to Environmental Regulations | \$540.1 |

The Customer Advisory Board (CAB) was created in the spring of 1989 to provide WSSC, Commissioners and staff with customer input on current practices and proposed policies and to augment communication with our customers. The CAB assists in meeting environmental protection challenges. This committee provides for volunteer members from the general public. Among other responsibilities, the CAB reviews major projects

challenges. This committee provides for volunteer members from the general public. Among other responsibilities, the CAB reviews major projects and makes recommendations pertaining to environmental policy to the WSSC's General Manager/CEO and staff.

Public Outreach

The Commission's proactive community outreach program is an integral part of the Facility Planning Process to include early public involvement in all potentially challenging projects. The objective is to inform affected communities about the WSSC's plans, actively seek their input, and respond to their concerns. The WSSC's planning approach is an open process, receptive to public comment and involvement. Residents of Prince George's and Montgomery Counties are given the opportunity to review clear, accessible documents that describe the rationale behind program planning and project decisions. The overall outreach goals are to:

- identify community and public policy issues early in the planning stage;
- address the known community concerns and environmental issues that are within the reasonable context of the facility planning effort;
- promote community understanding of system needs and demands and the planning process used by the WSSC to maintain public health standards and water quality protection;
- provide constructive forums for community involvement and information throughout the planning process;
- provide a clear understanding of the decision-making process;
- address potential health and environmental risks; and
- establish and maintain open lines of communication.

The process advocates achieving facility-planning goals through a collaborative effort among WSSC staff, technical experts, citizens and/or organizations, and public officials. While community involvement does not guarantee absolute public acceptance, such involvement allows the WSSC to be responsive and sensitive to community concerns, to define the best approach to addresses customers' concerns, and to garner community support while meeting public health objectives.

The Planning Process

Effective planning is the application of a well-thought-out process that combines engineering data, environmental requirements, economic factors, and public interaction to establish a sound basis for making competent decisions, for efficiently conducting and documenting specific work tasks, and for successfully implementing needed solutions. The WSSC's Facility Planning Process includes a complex study to identify needs, develop and evaluate alternative solutions, organize public outreach, and identify a preferred solution. An important goal in the process is to produce a result that is acceptable to citizens, elected officials, regulatory agencies, and the WSSC at a reasonable cost.

A number of outside influences affect the WSSC's project planning. Water and sewer projects are essentially an infrastructure response to land use decisions made by the two county governments and demographic information (population forecasts) provided by the Washington Council of Governments and the Maryland-National Capital Park and Planning Commission. These elements are used by the WSSC to calculate projected water and sewerage demands. The WSSC must also consider environmental consequences and compliance with federal and state regulations such as the Clean Water Act. The WSSC's needs analysis is also influenced by both county governments' guidance on service policies as contained in the Comprehensive Ten-Year Water and Sewerage Plans. Generally stated, the goals, purposes, and concepts provided by the Prince George's and Montgomery County Governments require that the water and sewerage systems be consistent with officially-approved local and general plans, and provide adequate capacity to accommodate the foreseeable development of the area served based upon population and employment projections. This requirement corresponds with what has always been Commission policy: to provide utility service to the type and location of development that each county governing body has approved, if economically and otherwise feasible. Figure 1, on the following page, displays the overall project planning and approval process.

FIGURE 1 **PROJECT DEVELOPMENT & APPROVAL PROCESS** Citizen Citizen Environmental Input Input M-NCP&PC Concerns Population Forecast WSSC **Facility Plan** Council Needs Adopted Assessment Comprehensive Master Plans Water & Sewer Plan PRG Service Policies Regulatory Input Compliance Citizen Citizen M-NCP&PC Input Input General Manager **County Councils Projects Enter** & Recommended CIP Commissioners **Final Project** Document Decision & County Executives Funding PRG Recommendations Comprehensive Water & Sewer Plan

Amendment

How Projects Enter the CIP

The facility planning process is a systematic approach to implementing water and wastewater projects, and is the primary source of new projects. Figure 2 depicts some of the important elements common to WSSC facility planning efforts.

| PHASE I | | PHASE II | PHASE III | |
|-------------------------|---|---|----------------------|--|
| Genesis | Project Initiation and Organization | Draft Facility Plan Development | Review and Approvals | |
| • Establishment of Need | • Planning Team | • Technical Analysis and Documentation | Public Comment | |
| • Funding | • Scope | Coordination | • County Governments | |
| | Consultant Selection Community Outreach Program Design | Community Outreach Program Implementation | • WSSC CIP | |

FIGURE 2

The WSSC's needs assessments may identify other potential projects. Projects needed for rehabilitation (due to age or deteriorated condition of a pipe in a particular area), for relief/replacement (due to extensive monitoring of sewage flows in an existing trunk line), or from maintenance reports (chronic breakage of older water and sewer lines which may have been constructed at a non-standard depth or with materials that were state-of-the-art 30 or 40 years ago), may be added into the CIP. A project may be added in response to relocation requirements due to road improvements or the need to construct a small segment of pipe in advance of paving. Projects may also be included at the request of either county government, usually to provide service to a planned county service facility, such as a new youth soccer complex, or in response to a request for service from an Applicant for new development. Projects may also enter the CIP when they are split from previously approved projects. Projects may be split either at the request of the Applicant or for administrative reasons such as to afford better project management or to provide greater clarity to the reader.

Development Services Process

Development Services Process (DSP) projects are undertaken to support future growth. Service to properties approved under the DSP almost always require the extension of small diameter subdivision lines and may involve program-sized pipes that must be included in the WSSC's CIP. This document includes only the portion of an Applicant's total pipe extension or pumping facility requirements and associated costs that conform to the definition provided in the section titled "Statutory Basis" at the beginning of this narrative.

To initiate a project, the WSSC will review the Applicant's subdivision preliminary plan submissions to the respective M-NCP&PC for water and/or sewer service, including a determination if the property to be served is located within the appropriate "service category." (Service category designations are a staging tool employed by and strictly administered in the Comprehensive Ten-Year Water and Sewerage Plans by both county governments. If the property is not in the correct service category, the Applicant must then contact the appropriate county office to begin a County Ten-Year Plan amendment process for reconsideration of the service area designation currently assigned to the property. If a designation change is approved later by the County Council, the Applicant may proceed with the construction of the project.) Once it has been determined that the property to be served is located within the appropriate service category, and a request for hydraulic planning analysis is made and completed, the WSSC issues a Letter of Findings which delineates the project conditions that must be met prior to the start of construction. When the project contains complex water and sewer issues such as the need for a CIP sized project, the WSSC will require that the Applicant submit a feasibility study. If necessary, a revised Letter of Findings is issued. Finally, the WSSC will perform a review for system integrity of the design plans. Construction can begin when design plans have been approved, all necessary construction permits and rights-of-way have been obtained, and the Applicant has satisfied all project conditions. Almost half of the projects in this document are DSP-related.

For those projects serving one new residence or providing relief from a residential health hazard, the WSSC will prepare the feasibility study and issue a Letter of Findings. The Letter of Findings will again delineate any project conditions and advise the Applicant of their cost responsibilities. If the Applicant elects to proceed with the project, the WSSC will prepare the design plans and obtain any necessary construction permits and rights-of-way. Once the Applicant has met all the project conditions, the design plans are approved, and all permits and rights-of-way are acquired, the WSSC will proceed with the construction of the project. However, such projects rarely include CIP-sized mains.

Project Development Criteria

It has been the WSSC's policy to have facilities in service when or before they are needed so that new development demands on the system do not result in a reduction of the level of service provided to existing customers. This policy provides for unrestricted water supply and no sewage overflows and avoids a water or sewer connection moratorium. This general service policy has guided the planning and sizing of the WSSC's systems for many years and requires that both the water and wastewater systems are sized to handle the peak or maximum demands, adjusted for weather-related usage. The task is to balance cost and spending affordability limits with environmental consequences and system reliability.

Water and wastewater systems are composed of functionally different sub-systems: treatment, transmission, distribution, collection, and storage. Ideally, the capacity of each component should match the capacity of the other parts of the system. An example of a real situation from the past is the comparison of the Blue Plains Wastewater Treatment Plant to the Muddy Branch and Seneca Creek wastewater transmission systems. The plant had enough capacity to last beyond the year 2000 but, in contrast, probable peak flows in the sewers exceeded pipeline capacity. These were part of the same network, yet one of the sub-systems had excess capacity, while other parts, although connected, were deficient. Transmission projects to correct this imbalance were completed in these basins, restoring capacity to handle future flows in the conveyance systems.

For most facilities, the WSSC plans enough capacity to last 20 years or more. When it seems clear that adding capacity incrementally will not be economical, feasible, or is significantly disruptive, longer range planning is done. A pipeline is sized for full development, or "build out" of its service area, to avoid repeated environmental and community disruption caused by construction. In most cases this results in a service life that extends beyond 20 years. Since the weather-related usage and future population projections are broad-based estimates of future conditions used in the calculation of future flow demands, the rate at which predicted flows increase or decrease in a pipeline system is somewhat variable, but still useful in providing a long-range target for timing the WSSC's project construction. The WSSC conservatively estimates the lead time required to plan, design, and construct a facility, and projects enter the CIP on that basis. It is not unusual for 10 or more years to elapse before a major facility project, such as a treatment plant, is finished following its initial appearance in this document.

Twenty-year estimates of increases in customer demand are based on the most recent M-NCP&PC demographic forecasts of population, dwelling units, and employment. Estimates of full development demands are based on the most current land use and zoning information available from the M-NCP&PC. This data is organized by Traffic Analysis Zones in Montgomery County and by Policy Analysis Zones in Prince George's County. The information is then disaggregated for the WSSC by sub-basins for use in the planning and sizing of projects.

Project Estimates

Pipeline cost estimates are developed through the use of a detailed checklist of cost elements. The comprehensiveness and uniformity of planning-level cost estimates has significantly improved through the inclusion of more site-specific details, previously not considered until advanced stages of design. The number of projects with cost increases that typically occur when a project transitions from the preliminary planning phase to the design phase has been greatly reduced. Many of the estimates in earlier CIP documents were based upon planning studies and reports that included average costs calculated solely from past construction contracts.

Actual design plans and profiles, if available, are analyzed together with United States Geological Survey soil maps. Additional factors such as site access, excessive traffic, known jurisdictional constraints, presence of rock or running sand, work through existing neighborhoods or open fields, and proximity to other existing utility lines are taken into consideration. The base prices upon which the estimates are predicated have been derived from historical data. The specific final unit prices are increased or decreased, dependent upon factors such as those listed above. In addition, all environmental mitigation costs for efforts such as reforestation are already included in the individual project costs. Regardless of the extensive checklist, some additional costs may be required by permitting agencies to reflect unpredictable requirements for things such as more complex traffic management plans or for changes in permit requirements for more stringent erosion protection measures at construction sites. The need for these kinds of features is project specific and is identified on individual project description forms (PDFs) when appropriate.

Cost estimates for major facility projects (e.g., treatment plants and pumping stations) in the planning and design phases are normally based on estimates developed by consulting engineers. By nature, these estimates are complex, and from the point of conceptual design (when facility projects first appear in the CIP), details change, project scopes are redefined, processes are modified, equipment and piping are reconfigured or resized, decisions are made on elements such as equipment redundancy, and costs are subjected, selectively, to a Value Engineering review. All of these adjustments result in cost modifications. The WSSC requires that projects be re-evaluated by consulting engineers at the 30% and 70% stages of design. Estimated construction costs, reflecting these modifications, are identified on the individual PDFs, if applicable, and displayed in the CIP. Because the costs displayed in the CIP are estimates and not actual costs, construction contingencies may be added.

The "Other" cost element, displayed in Block B, Line 5 in the Expenditure Schedule on each PDF, is a broad estimate of the direct and indirect expenses associated with the implementation of each project and is not covered by the other major cost categories. These costs include direct support costs for a project such as salaries, wages, and related personnel costs (social security, retirement), and materials, services, rentals, supplies, mileage, and other expenses. (General overhead costs, which may be allocated to a project, are not included.) This element is estimated for the majority of the projects in this document by multiplying the sum of the project's Planning, Design and Supervision, Land, and Construction cost elements in each column on the PDF by a constant 15%. There are exceptions: a value, based upon 1%, is applied to Blue Plains project costs; and, a constant of 10% is used to more realistically estimate these expenses for projects with a total estimated cost of \$10 million or more.

A project's previous expenditures, which include overhead, are shown under Column (9) of the Expenditure Schedule in Block B of the PDF. These expenditures are accessed from the WSSC's financial information system through the period ending April 30th of each year. End of the fiscal year expenditures were not available in time for the development of project expenditure schedules and are estimated.

Planning for Future Generations

One of the WSSC's top priorities, in the core strategy of Infrastructure Asset Management, is to improve capital investment management. A key task is to develop a Utility Master Plan for the Commission to address the existing and future capacity, regulatory, and rehabilitation/ repair/replacement requirements for the next 30 years. The objective of the "Utility-Wide Master Plan" (UMP) is to identify infrastructure needs and investment strategies for the next 30 years, and develop and implement an asset management framework for optimal investment decision making. The UMP will provide input to the Commission's multi-year financial forecasting and will develop and refine a 30-year capital investment projection based on the following requirements: regulatory, capacity, maintenance, rehabilitation/replacement, process control, energy conservation, and reliability.

The UMP will be completed in phases. Phase 1A, completed in July 2007, provided a high level assessment of the WSSC's assets and was completed in an accelerated time frame in order to have input into both the Fiscal Year 2009 capital planning process and the 10-Year Fiscal Plan. Each group of assets identified in Phase 1A was evaluated with respect to several areas of focus, including: compliance with existing regulatory requirements; providing adequate system capacity for current and future customers; adequately maintaining, rehabilitating, and replacing the existing systems; incorporating energy conservation and reliability measures at existing facilities; and providing process control systems that allow for optimization of the systems. The main outcomes of Phase 1A included: a 30-year investment projection; financial data for the 10-Year Fiscal Plan; asset summary profiles for each of the major asset groups; identification of key strategic drivers, trends, and levels of service; and recommendations for subsequent phases of the UMP. Phase 1B, which refined the asset hierarchy and provided a roadmap for development of asset management plans in future phases, was completed in December 2007. The development of an Asset Management Strategy was completed in April 2008, and included assessment of current asset management processes and practices, a gap analysis, and an Asset Management Implementation Plan (AMIP).

Phase 2 of the UMP, which started in September 2008, includes the development of 5 Asset Management Plans (AMP) and implementation of 13 projects to begin addressing the recommendations identified in the AMIP to improve asset management practices and processes. At the completion of Phase 2, estimated for spring 2011, WSSC will have detailed asset management plans for the Water Distribution and Transmission Systems, Piscataway WWTP, Broad Creek WWPS, and Broad Creek Basin. The organization will also have improved guidelines and processes to define its level of services, assess the condition of water and wastewater assets, determine business risk associated with the assets, improve maintenance and operations strategies, determine assets life cycle cost, and optimize investment decisions.

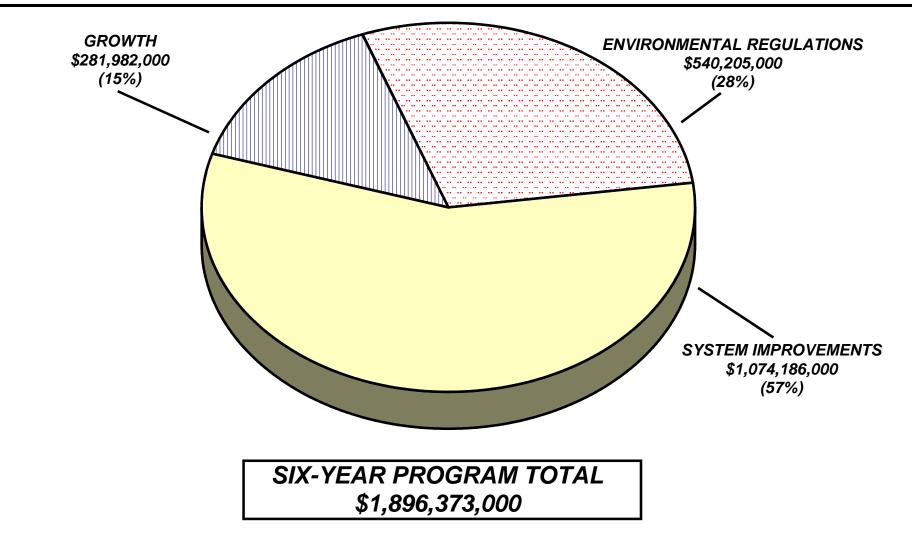
In each phase of the UMP, the core concepts of asset management will be applied more comprehensively to the individual components of the aggregated assets from Phase 1A to provide a highly detailed and well-defined evaluation of life-cycle cost for all assets throughout the WSSC. The results will include a much-refined 30-year investment projection and the ability to do optimized investment decision-making. In addition, the recommendations outlined in the AMIP will be implemented to start transitioning to an organization-wide asset management program.

The outcomes of future phases are expected to identify new capital investment requirements which will be included in future CIPs

FIGURE 3

WSSC ADOPTED FYS 2011-16 CIP

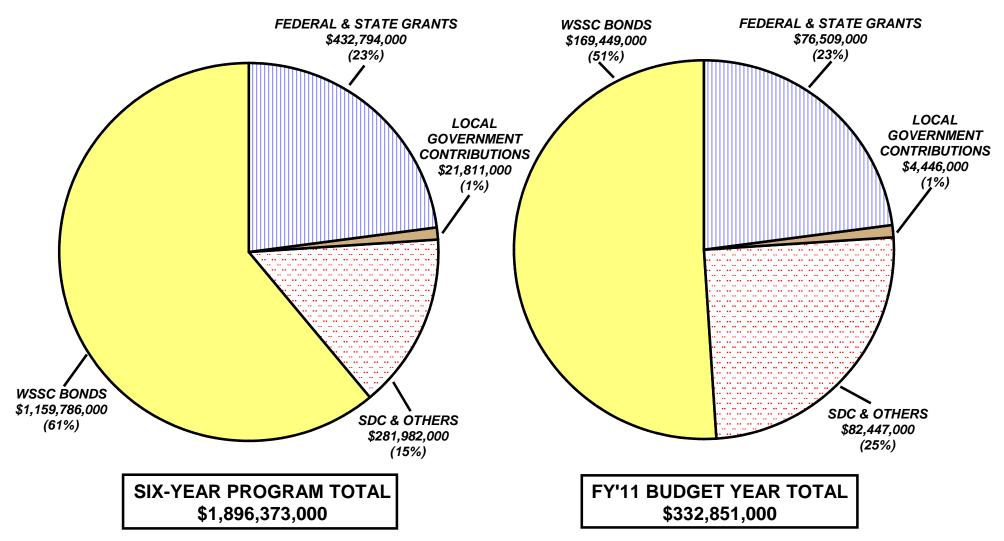
SIX-YEAR PROGRAM EXPENDITURES BY MAJOR CATEGORY*



* Totals do not include \$1,098,315,000 in System Improvements project capital expenditures for Information Only projects.

WSSC ADOPTED FYS 2011-16 CIP

FUNDING BY SOURCE*



* Totals do not include \$1,098,315,000 and \$162,875,000 in capital expenditures for Information Only projects in the six-year program and budget year, respectively.

WSSC FYS 2011 - 2016 CIP NEW PROJECTS LISTING (costs in thousands)

| Agency Number | Project Name | Total Project Cost | 6 Year Program Cost | Budget Year Cost | % of Growth |
|------------------|---|--------------------------|---------------------------|------------------------|----------------|
| Montgomery (| County Sewer Projects | | | | |
| S-61.01 | Reddy Branch WWPS Augmentation | \$172 | \$172 | \$172 | 100% |
| Bi-County Wa | ter Projects | | | | |
| W-73.19 | Potomac WFP Outdoor Substation No. 2 Replacement | 7,934 | 7,934 | 132 | 0% |
| W-73.20 | Potomac WFP Stage 2 Disinfection Byproducts Rule Implementation | 7,959 | 7,131 | 4,531 | 0% |
| W-161.01 | Large Diameter Pipe Rehabilitation Program | 60,000 | 60,000 | 5,000 | 0% |
| Bi-County Sev | ver Projects | | | | |
| S-170.09 | Trunk Sewer Reconstruction Program | 504,993 | 488,320 | 39,079 | 0% |
| Prince George | 's County Water Projects | | | | |
| W-12.02 | Prince George's County HG415 Zone Water Main | 1,074 | 1,062 | 69 | 0% |
| Prince George | 's County Sewer Projects | | | | |
| S-68.01 | Landover Mall Redevelopment | 1,108 | 1,050 | 12 | 100% |
| S-131.08 | Preserves of Piscataway WWPS | 500 | 500 | 190 | 100% |
| S-131.09 | Preserves of Piscataway WWPS Force Main | 77 | 77 | 23 | 100% |
| Information O | nly Projects | | | | |
| A-107.00 | Pressure Reducing Valve Rehabilitation Program | 17,560 | 15,070 | 3,630 | 0% |
| | TOTALS | <u>\$601,377</u> | <u>\$581,316</u> | <u>\$52,838</u> | |

10 New Projects

WSSC FYS 2011 - 2016 CIP

ALL PROJECTS PENDING CLOSE-OUT

(costs in thousands)

| Agency Number | Project Name | Estimated Total Cost | Expenditures Thru FY'09 | Estimated Expenditures FY'10 | Remarks |
|------------------|---|----------------------------|-------------------------------|------------------------------------|---------------------------------------|
| Montgomery V | Vater Projects | | | | |
| W-46.13 | Clarksburg Town Center Water Main | \$1,185 | \$991 | \$194 | Project completion expected in FY'10. |
| Montgomery S | Sewer Projects | | | | |
| S-49.15 | Rock Creek Wastewater Facilities | 5,839 | 5,839 | 0 | Project completed. |
| Prince George | 's County Water Projects | | | | |
| W-140.01 | Sheriff Road Water Main Replacement | 3,624 | 3,381 | 243 | Project completion expected in FY'10. |
| Prince George | 's County Sewer Projects | | | | |
| S-75.13 | Lakeview at Brandywine Sewer | 0 | 0 | 0 | Project reduced to non-CIP size. |
| S-75.17 | Mattawoman WWTP Enhanced Nutrient Removal | 3,636 | 3,636 | 0 | Project completed. |
| | TOTALS | <u>\$14,284</u> | <u>\$13,847</u> | <u>\$437</u> | |
| 5 Projects Pend | ding Close-Out | | | | |

FINANCIAL SUMMARY

DATE: October 1, 2009 REVISED: May 13, 2010

TOTAL WSSC CIP

(ALL FIGURES IN THOUSANDS)

| AGENCY | PROJECT | EST. | EXPEND | EST. | TOTAL | | EX | PENDITUR | E SCHEDUI | _E | | BUDGET | PDF |
|--------|--|-----------|---------|---------|-----------|---------|---------|----------|-----------|---------|---------|---------|------|
| NUMBER | NAME | TOTAL | THRU | EXPEND | SIX | YR 1 | YR 2 | YR 3 | YR 4 | YR 5 | YR 6 | REQUEST | PAGE |
| | | COST | 09 | 10 | YEARS | 11 | 12 | 13 | 14 | 15 | 16 | 11 | NUM |
| | Montgomery County Water Projects | 30,118 | 2,431 | 4,139 | 23,548 | 7,925 | 10,254 | 5,369 | 0 | 0 | 0 | 7,925 | 1-1 |
| | Prince George's County Water Projects | 96,384 | 28,094 | 6,113 | 58,427 | 17,917 | 21,035 | 14,007 | 4,357 | 803 | 308 | 17,917 | 5-1 |
| | Bi-County Water Projects | 501,977 | 135,455 | 64,539 | 301,983 | 76,479 | 92,985 | 65,843 | 24,796 | 23,932 | 17,948 | 76,479 | 3-1 |
| | TOTAL WATER PROJECTS | 628,479 | 165,980 | 74,791 | 383,958 | 102,321 | 124,274 | 85,219 | 29,153 | 24,735 | 18,256 | 102,321 | |
| | Montgomery County Sewerage Projects | 78,537 | 10,862 | 12,736 | 54,939 | 24,502 | 20,366 | 10,030 | 41 | 0 | 0 | 24,502 | 2-1 |
| | Prince George's County Sewerage Projects | 220,216 | 23,509 | 17,777 | 177,936 | 54,478 | 56,548 | 40,519 | 22,809 | 1,984 | 1,598 | 54,478 | 6-1 |
| | Bi-County Sewerage Projects | 1,957,373 | 491,466 | 90,915 | 1,279,540 | 151,550 | 382,741 | 351,815 | 194,638 | 117,912 | 80,884 | 151,550 | 4-1 |
| | TOTAL SEWERAGE PROJECTS | 2,256,126 | 525,837 | 121,428 | 1,512,415 | 230,530 | 459,655 | 402,364 | 217,488 | 119,896 | 82,482 | 230,530 | |
| | TOTAL WSSC PROGRAM | 2,884,605 | 691,817 | 196,219 | 1,896,373 | 332,851 | 583,929 | 487,583 | 246,641 | 144,631 | 100,738 | 332,851 | |
| | Total Information Only Projects | 1,268,321 | 26,046 | 132,890 | 1,105,715 | 164,071 | 169,805 | 185,900 | 190,143 | 190,824 | 204,972 | 164,071 | 7-1 |
| | | | | | | | | | | | | | |

Notes for costs beyond six years:

Includes 3,750 for Prince George's County Water Projects. Includes 3,750 for Water Projects Total Cost. Includes 994 for Prince George's County Sewerage Projects. Includes 95,452 for Bi-County Sewerage Projects. Includes 96,446 for Sewerage Projects Total Cost.

Includes 100,196 for WSSC Program Total Cost.

Section 1 - Montgomery County Water Projects

FINANCIAL SUMMARY

(ALL FIGURES IN THOUSANDS)

MONTGOMERY COUNTY WATER PROJECTS

| AGENCY | PROJECT | EST. | EXPEND | EST. | TOTAL | | EXF | PENDITURE | SCHEDULE | 1 | | BUDGET | PDF |
|----------|---|---------------|------------|--------------|--------------|------------|------------|------------|------------|------------|------------|---------|-------------|
| NUMBER | NAME | TOTAL COST | THRU 09 | EXPEND 10 | SIX YEARS | YR 1 11 | YR 2 12 | YR 3 13 | YR 4 14 | YR 5 15 | YR 6 16 | REQUEST | PAGE NUM |
| W-3.02 | Olney Standpipe Replacement | 5,365 | | | 4,591 | 1,334 | 2,582 | 675 | 0 | 0 | 0 | 1,334 | |
| W-46.14 | Clarksburg Area Stage 3 Water Main, Parts 1, 2, & 3 | 3,586 | 141 | 656 | 2,789 | 2,238 | 551 | 0 | 0 | 0 | 0 | 2,238 | 1-4 |
| W-46.15 | Clarksburg Elevated Water Storage Facility | 4,092 | 132 | 25 | 3,935 | 328 | 2,069 | 1,538 | 0 | 0 | 0 | 328 | 1-5 |
| W-46.18 | Newcut Road Water Main, Part 2 | 825 | 75 | 115 | 635 | 236 | 399 | 0 | 0 | 0 | 0 | 236 | 1-6 |
| W-46.24 | Clarksburg Area Stage 3 Water Main, Part 4 | 1,954 | 68 | 276 | 1,610 | 1,455 | 155 | 0 | 0 | 0 | 0 | 1,455 | 1-7 |
| W-113.19 | Countryside Drive Water Loop | 303 | 10 | 284 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 9 | 1-8 |
| W-138.02 | Shady Grove Standpipe Replacement | 8,058 | 0 | 289 | 7,769 | 288 | 4,325 | 3,156 | 0 | 0 | 0 | 288 | 1-9 |
| W-153.00 | Laytonsville Elevated Tank & Pumping Station | 4,519 | 700 | 1,840 | 1,979 | 1,979 | 0 | 0 | 0 | 0 | 0 | 1,979 | 1-10 |
| W-200.00 | Land & Rights-of-Way Acquisition - Montgomery County | 231 | 0 | 0 | 231 | 58 | 173 | 0 | 0 | 0 | 0 | 58 | 1-12 |
| | Projects Pending Close-Out | 1,185 | 991 | 194 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1-13 |
| | TOTAL MONTGOMERY COUNTY WATER PROJECTS | 30,118 | 2,431 | 4,139 | 23,548 | 7,925 | 10,254 | 5,369 | 0 | 0 | 0 | 7,925 | |

| A. Identification and Coding Info | ormation | | 2. Da | te: Octo | ber 1, 200 |)9 | 7. Pre PD | F Pg.No.: | 8. Req. | Adeq. Pu | ub. Fac. | E. Annual Operating Budget Impact (00 | 10's) FY | of Impact |
|---|---|-------------------------------------|----------------------------------|----------------------|-----------------------------|----------------|----------------|----------------|----------------|----------------|----------------|---|--------------------|-----------|
| 1. Project Number Agency Numb | er Update | Code | | | , | [| | | | | | Program Costs Staff | | |
| 063801 W-3.02 | Change | | Revis | ed: | | L | | | | | | Other Facility Costs Maintenance | | |
| 3. Project Name: Olney Standpip | e Replaceme | nt | | | | | 5.Agency: | W | SSC | | | Debt Service | 468 | 14 |
| 4. Program: Sanitation | 6. Planning | g Area: | Olney | & Vicinit | y P.A. 23 | | | | | | | Total Costs Impact on Water or Sewer Rate | 468 | 14 |
| В. | | E | xpenditu | re Schec | lule (000' | s) | | | | | | F. Approval and Expenditure Data (000 | 's) | |
| | (8) | (9) Thru | (10) Estimate | (11) Total | (12) Year 1 | (13) Year 2 | (14) Year 3 | (15) Year 4 | (16) Year 5 | (17) Year 6 | (18) Beyond | | - | |
| Cost Elements | Total | FY '09 | FY '10 | 6 Years | FY '11 | FY '12 | FY '13 | FY '14 | FY '15 | FY '16 | 6 Years | Date First in Capital Program | | FY 06 |
| Planning, Design & Supervision | 1,196 | 314 | 400 | 482 | 216 | 180 | 86 | | | | | Date First Approved | | FY 06 |
| Land | | | | | | | | | | | | Initial Cost Estimate | | 3,911 |
| Site Improvements & Utilities | | | | | | | | | | | | Cost Estimate Last FY | , | 4,556 |
| Construction | 3,510 | | | 3,510 | 944 | 2,065 | 501 | | | | | Present Cost Estimate | | 5,365 |
| Other | 659 | | 60 | 599 | 174 | 337 | 88 | | | | | Approved Request, Last FY | | 475 |
| Total | 5,365 | 314 | 460 | 4,591 | 1,334 | 2,582 | 675 | | | | | Total Expenditures & Encumbrances | | 314 |
| С. | | | Funding | Schedu | le (000's) | | | | | | | Approval Request FY 11 | 1 | 1,334 |
| WSSC Bonds | 5,365 | 314 | 460 | 4,591 | . , | 2,582 | 675 | | | | | | | |
| D. Description & Justification | | | | | | | | | | | | Supplemental Approval Request Current FY (10) | | |
| DESCRIPTION | | | | | | | | | | | | | | |
| This project provides for the c elevated storage to serve the | | | | | | | | | llion gallo | ns (MG) d | of | G. Status Information Land Status: Not determined | d | |
| Service Area Montgomery | High Pressure | e Zone H | G660 | | | | Ca | bacity 1. | 5 MG | | | % Project Completion: P-60% | | |
| JUSTIFICATION | | | | | | | | | | | | Est. Completion Date: January 2013 | | |
| Plans & Studies | | | | | | | | | | | | H. Map Map Reference Code: | | |
| Montgomery County High Zor March 22, 2004; Water Stora | | | | | | Memoran | dum from | Jeff Asne | er to Karei | n Wright (| dated | CORE OF THE OCKEVILLE | CRE CRE | EEK |
| Specific Data | | | | | | | | | | | | And a manufactor and a start and and the | | VERI |
| The efforts of the Systems Co the THM concentrations in the residuals and results in low-pi storage requires constant atte | e distribution ressure comp | system. plaints du | However, ring the d | these eff rawdown | orts still le efforts. T | eave the (| Olney area | with trou | blesome | chlorine | | | 3.02 | |
| Cost Change | | | | • | | | | | | | | | AT THE | CT CT |
| The increase in construction of capacity will allow the Commin periods of time during emerged the volume increase is compare STATUS Facility Planning (WSS) | ission to max encies, and d atible with the | imize red lecrease t Olney lo | uced ene he need f cation. | rgy rates, | provide g | reater fle | xibility in n | naintainin | g service | for longe | r | TOWN CENTRE 3 AM TO THE CAME DAKE | STIMBERLAN ESTS | |

OTHER

The project scope has remained the same. Expenditures shown are planning level estimates only and may change depending on sitespecific conditions and design constraints.

COORDINATION

Montgomery County Government and Maryland-National Capital Park & Planning Commission (anticipates receiving Mandatory Referral submissions from WSSC as the project reaches the preliminary design stage).

NOTE This project supports 100% System Improvement.

Existing Olney stand pipe

2991 ft

224NW03

10 11 14

<u>GERMANTOWN/CLARKSBURG AREA PROJECTS</u> (costs in thousands)

| PROJECT NUMBER | PROJECT NAME | ADOPTED FY'10 TOTAL COST | ADOPTED FY'11 TOTAL COST | CHANGE \$ | CHANGE % | SIX-YEAR COST | COMPLETION DATE (est) |
|-------------------|--|-----------------------------|-----------------------------|--------------|-------------|------------------|--------------------------|
| W-46.14 | Clarksburg Area Stage 3 Water Main, Parts 1, 2 & 3 | \$4,694 | \$3,586 | (\$1,108) | -23.6% | \$2,789 | Developer Dependent |
| W-46.15 | Clarksburg Elevated Water Storage Facility | 3,957 | 4,092 | 135 | 3.4% | 3,935 | FY 2013 |
| W-46.18 | Newcut Road Water Main, Part 2 | 825 | 825 | 0 | 0.0% | 635 | Developer Dependent |
| W-46.24 | Clarksburg Area Stage 3 Water Main, Part 4 | split | 1,954 | 1,954 | | 1,610 | Developer Dependent |
| | TOTALS | \$9,476 | \$10,457 | \$981 | 10.4% | \$8,969 | |

Summary: These projects are in response to the growth in the up-county area including Germantown and Clarksburg. The projects were identified in the General Plan, Clarksburg Master Plan, Montgomery County High Zone Supply Facility Plan-1990, Maryland-National Capital Park & Planning Commission Round 6.2 population forecasts, and numerous other studies. A portion of the Clarksburg Area Stage 3 Water Main, Parts 1, 2 & 3 project (W-46.14) to serve the areas designated as "Stage 3" in the Clarksburg Master Plan and Hyattstown Special Study Area was split out to create the Clarksburg Area Stage 3 Water Main, Part 4 project which will now be built by WSSC due to the developer moving forward to slowly to meet WSSC demand needs. The Clarksburg Elevated Water Storage Facility project (W-46.15) provides funding for a .75 million gallon elevated water storage facility, which is needed as the Clarksburg area continues to develop. The Newcut Road Water Main, Part 2 project (W-46.18) will build 5,700 feet of water main along Newcut Road. The Clarksburg Town Center Water Main project (W-46.13) is expected to by completed in FY'10 and was removed from this table.

Cost Impact: Revised total cost estimates reflect the project split and adjustments for inflation.

| 4. Destant Monthese American Monthese | nation | | 2 Dat | e Octol | per 1, 2009 | | 7. Pre PD | F Pg.No.: | 8. Req. | Adeq. Pu | ub. Fac. | E. Annual Operating Budget Impact (000's) | FY of Impact |
|---|-------------|---------------|------------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---|--------------|
| 1. Project Number Agency Number | Update C | Code | | | , | | | | | | | Program Costs Staff | |
| 973818 W-46.14 | Change | | Revise | ea: | | | | | | | | Other | 13 |
| 3. Project Name: Clarksburg Area S | tage 3 Wat | er Main, P | arts 1, 2 | 2&3 | | | 5.Agency: | W | SSC | | | Debt Service | |
| 4. Program: Sanitation | 6. Planning | Area: | Clarks | sburg & V | icinity P.A. | 13 | | | | | | Total Costs | 13 |
| | | | | | | | | | | | | Impact on water of Sewer Rate | |
| В. | | Ex | penditu | re Sched | ule (000's) | | | 1 | 1 | | | F. Approval and Expenditure Data (000's) | |
| | (8) | (9) Thru E | (10) Estimate | (11) Total | (12) Year 1 | (13) Year 2 | (14) Year 3 | (15) Year 4 | (16) Year 5 | (17) Year 6 | (18) Beyond | Date First in Capital Program | FY 97 |
| Cost Elements | Total | FY '09 | FY '10 | 6 Years | FY '11 | FY '12 | FY '13 | FY '14 | FY '15 | FY '16 | 6 Years | | |
| Planning, Design & Supervision | 581 | 141 | 320 | 120 | 96 | 24 | 1 | | | | | Date First Approved | FY 97 |
| Land | | | | | | | | | | | | Initial Cost Estimate | 3,376 |
| Site Improvements & Utilities | | | | | | | | | | | | Cost Estimate Last FY | 4,694 |
| Construction | 2,555 | | 250 | 2,305 | 1,850 | 455 | 5 | | | | | Present Cost Estimate | 3,586 |
| Other | 450 | | 86 | 364 | 292 | 72 | 2 | | | | | Approved Request, Last FY | 2,231 |
| Total | 3,586 | 141 | 656 | 2,789 | 2,238 | 551 | | | | | | Total Expenditures & Encumbrances | 141 |
| C . | | F | unding | Schedul | e (000's) | | | | | | | Approval Request FY 11 | 2,238 |
| Contribution/Other | 3,586 | 141 | 656 | 2,789 | 2,238 | 551 | | | | | | | |
| D Description & Justification | | | | | | | | | | | | Current FY (10) | |
| Other 450 86 364 292 72 Approved Request, Last FY 2,231 Total 3,586 141 656 2,789 2,238 551 Image: Constraint of the state o | | | | | | | | | | | | | |

| A. Identification and Coding Inform | nation | | 2. Da | te: Octo | ber 1, 200 | 9 | 7. Pre PDF | Pg.No.: | 8. Req. | Adeq. Pub. Fac. | E. Annual Operating Budget Impact (000's) FY of Impact |
|---|-------------|-------------|------------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------------------|---|
| 1. Project Number Agency Number | Update | Code | | | | | | | | | Program Costs Staff |
| 973819 W-46.15 | Change | | Revis | ea: | | L | | | | | Other |
| 3. Project Name: Clarksburg Elevate | d Water S | Storage Fa | acility | | | | 5.Agency: | W | SSC | | Debt Service |
| 4. Program: Sanitation 6 | 6. Planning | g Area: | Clarks | sburg & V | icinity P.A | . 13 | | | | | Total Costs |
| | | | | | | | | | | | |
| В. | | 1 | | Ire Sched | | | (1.1) | (1-) | (10) | (17) (10) | F. Approval and Expenditure Data (000's) |
| | (8) | (9) Thru | (10) Estimate | (11) Total | (12) Year 1 | (13) Year 2 | (14) Year 3 | (15) Year 4 | (16) Year 5 | (17) (18) Year 6 Beyond | Date First in Capital Program FY 97 |
| Cost Elements | Total | FY '09 | FY '10 | 6 Years | FY '11 | FY '12 | FY '13 | FY '14 | FY '15 | FY '16 6 Years | Date First Approved FY 97 |
| Planning, Design & Supervision | 668 | 132 | 22 | 514 | 285 | 81 | 148 | | | | |
| Land | | | | | | | | | | | Initial Cost Estimate 138 |
| Site Improvements & Utilities | | | | | | | | | | | Cost Estimate Last FY 3,957 |
| Construction | 2,907 | | | 2,907 | | 1,718 | 1,189 | | | | Present Cost Estimate 4,092 |
| Other | 517 | | 3 | 514 | 43 | 270 | 201 | | | | Approved Request, Last FY 322 |
| Total | 4,092 | 132 | 25 | 3,935 | 328 | 2,069 | 1,538 | | | | Total Expenditures & Encumbrances 132 |
| С. | | | Funding | J Schedul | e (000's) | | | | | | Approval Request FY 11 328 |
| SDC | 4,092 | 132 | 25 | 3,935 | 328 | 2,069 | 1,538 | | | | Supplemental Approval Request |
| D. Description & Justification | | | | | | | | | | | Current FY (10) |
| DESCRIPTION | | | | | | | | | | | |
| This project provides for the com | | | | on, planni | ng, desigi | n, and co | onstruction | for a futu | ire 0.75 m | iillion gallon (MG) | G. Status Information |
| elevated storage facility in the HC | | | e zone. | | | | | | | | Land Status: Site selected |
| Service Area Brink Pressure Z | one HG76 | 60 | | | | | Cap | oacity 0. | 75 MG | | % Project Completion: D-0% Est. Completion Date: FY 2013 |
| JUSTIFICATION | | | | | | | | | | | |
| Plans & Studies Montgomery County High Zone S | | cility Plan | WSSC | | 8 DC Pou | nd 6 2 ar | owth force | acte: Ma | ctorn Cla | kebura Eacility | H. Map Map Reference Code: |
| Plan, Rogers Associates (Decem | | | | | | | | | | Roburg Facility | |
| Specific Data | | , - | 0 | | | | | , | | | (46.15) Clarksburg |
| This project is needed in anticipa | | | | | | | | | | | Utd Meth |
| forecasts now indicates a storage | | | | | | | | | | | CLARKSBURG |
| identified the preferred location for comments concerning the location | on. | er storage | raciiity. | AS Holeu | in the lac | iiity pian, | public me | eungs we | | Obtain | |
| Cost Change | | | | | | | | | | | Clerksburg |
| Costs were increased for inflation | า. | | | | | | | | | | |
| STATUS Preliminary Design (WSSC | Contract | Nos. BE1 | 442A95 | , DA3326 | A02). | | | | | | CATEWAY 270 GARNKIRK |
| <u>OTHER</u> | | | | | | | | | | | Exit-18 GATEWAY 270 FARMS CLARKSE |
| The project scope has remained | | | | | | | | | | | BUS CYR com |
| delayed by the developer due to Board Mandatory Referral is for V | | | | | | | | | | | |
| of the final landscaping surround | | | | | | | | | | | |
| and construction of the tank. Lar | nd costs a | are include | ed in WSS | SC Projec | t W-200.0 | 0. | | - | | - | Pocky Hill a |
| COORDINATION | | | | | | | | | | | 2 gr Mar Clarksburg Parking |
| Montgomery County Governmen | t and Mar | yland-Nati | ional Cap | ital Park a | & Planning | g Commi | ission (Mar | ndatory R | eferral He | earing was held | SEE GRUD D11 |
| on April 3, 2008). NOTE This project supports 100% | Growth | | | | | | | | | | 232NW13 1" = 2111 ft |
| NOTE This project supports 100% | o Giowin. | | | | | | | | | | T SHUMPCCK GLEM CH |
| | | | | | | | | | | | |

| A. Identification and Coding Inform | nation | | 2. Da | te: Octo | ber 1, 200 | 9 | 7. Pre PD | F Pg.No.: | 8. Req. | Adeq. Pu | ub. Fac. | E. Annual Operating Budget Impact (000's) | FY of Impact |
|--|-------------|-------------|------------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---|--------------|
| 1. Project Number Agency Number | Update | | Revis | | | | | | | | | Program Costs Staff | |
| 013802 W-46.18 | Change | | Revis | eu. | | | | | | | | Other | 13 |
| 3. Project Name: Newcut Road Wat | er Main, Pa | art 2 | | | | | 5.Agency | W | SSC | | | Debt Service | |
| 4. Program: Sanitation | 6. Planning | g Area: | Clark | sburg & V | icinity P.A | . 13 | | | | | | Total Costs | 13 |
| В. | | E | Expenditu | ure Sched | lule (000': | s) | | | | | | F. Approval and Expenditure Data (000's) | |
| | (8) | (9) Thru | (10) Estimate | (11) Total | (12) Year 1 | (13) Year 2 | (14) Year 3 | (15) Year 4 | (16) Year 5 | (17) Year 6 | (18) Beyond | Date First in Capital Program | FY 01 |
| Cost Elements | Total | FY '09 | FY '10 | 6 Years | FY '11 | FY '12 | FY '13 | FY '14 | FY '15 | FY '16 | 6 Years | | |
| Planning, Design & Supervision | 95 | 75 | 10 | 10 | 5 | 5 | 5 | | | | | Date First Approved | FY 01 |
| Land | | | | | | | | | | | | Initial Cost Estimate | 800 |
| Site Improvements & Utilities | | | | | | | | | | | | Cost Estimate Last FY | 825 |
| Construction | 632 | | 90 | 542 | 200 | | | | | | | Present Cost Estimate | 825 |
| Other | 98 | | 15 | 83 | 31 | 52 | 2 | | | | | Approved Request, Last FY | 236 |
| Total | 825 | 75 | 115 | 635 | 236 | 399 | | | | | | Total Expenditures & Encumbrances | 75 |
| С. | | | Funding | g Schedul | le (000's) | | | | | | | Approval Request FY 11 | 236 |
| Contribution/Other | 825 | 75 | 115 | 635 | 236 | 399 | 9 | | | | | Supplemental Approval Request | |
| D. Description & Justification | | | | | | | | | | | | Current FY (10) | |
| Other 98 15 83 31 52 Approved Request, Last FY Image: Contribution/Other Total Supplemental Approval Request Approved Request Contribution/Other Supplemental Approval Request Supplemental Approval Request | | | | | | | | | | | | | |

| A. Identification and Coding Information | ation | | 2. Date: | : Octol | ber 1, 200 | 9 | 7. Pre PD | F Pg.No.: | 8. Req. | Adeq. Pu | ub. Fac. | E. Annual Operating Budget Impact (000's) | Y of Impact |
|--|--|---|--|--|--|---|---|---|--|--|----------------------------------|--|--------------|
| 1. Project Number Agency Number | Update Co | de | | | | | | | | | | Program Costs Staff | |
| 113800 W-46.24 | Change | | Revised | u. | | | | | | | | Other | 13 |
| 3. Project Name: Clarksburg Area Sta | age 3 Water | r Main, Par | rt 4 | | | | 5.Agency: | W | SSC | | | Debt Service | |
| 4. Program: Sanitation 6. | Planning A | vrea: | Clarksb | ourg & V | icinity P.A | . 13 | | | | | | Total Costs 221 Impact on Water or Sewer Rate | 13 |
| В. | | Expe | enditure | e Sched | ule (000': | s) | | | | | | F. Approval and Expenditure Data (000's) | |
| | | | (10) timate | (11) Total | (12) Year 1 | (13) Year 2 | (14) Year 3 | (15) Year 4 | (16) Year 5 | (17) Year 6 | (18) Beyond | | EV 11 |
| Cost Elements | | | | 6 Years | FY '11 | FY '12 | | FY '14 | FY '15 | FY '16 | 6 Years | Date First in Capital Program | FY 11 |
| Planning, Design & Supervision | 330 | 68 | 100 | 162 | 155 | 7 | 7 | | | | | Date First Approved | FY 97 |
| Land | | | | | | | | | | | | Initial Cost Estimate | 1,954 |
| Site Improvements & Utilities | | | | | | | | | | | | Cost Estimate Last FY | |
| Construction | 1,378 | | 140 | 1,238 | 1,110 | 128 | 3 | | | | | Present Cost Estimate | 1,954 |
| Other | 246 | | 36 | 210 | 190 | 20 |) | | | | | Approved Request, Last FY | |
| Total | 1,954 | 68 | 276 | 1,610 | 1,455 | 155 | 5 | | | | | Total Expenditures & Encumbrances | 68 |
| C. | | Fu | Inding S | Schedul | e (000's) | | | | | • | | Approval Request FY 11 | 1,455 |
| SDC | 1,954 | 68 | 276 | 1,610 | 1,455 | 155 | 5 | | | | | Supplemental Approval Request | |
| D. Description & Justification <u>DESCRIPTION</u> Design and construction of this pr Route 355 and 1,500 feet of 24-in main along West Old Baltimore R Service Area Brink Pressure Zo <u>JUSTIFICATION</u> Plans & Studies General Plan and M-NCP&PC Ro Specific Data This water main is planned to serv Area, approved and adopted in Ju Cost Change Not Applicable STATUS Final Design (WSSC Contrations and design constraints. Land costs are included in WSSC COORDINATION Montgomery County Government, Area Stage 3 Water Main, Parts 1 NOTE This project supports 100% | ch diameter oad. one HG760 ound 6 growt we the area o ine 1994. act Nos. BL3 for the FY 2 hown in Bloc . Due to del : Project W-2 , Maryland-N , 2 & 3 and | r water ma th forecast designated 3326B02 , 2011 CIP a ck B are pl elays by the 200.00. National Ca | ts. d as "Sta BL3326 and has lanning e develo | g West C tage 3" in 6C02). s a total o level est oper WS ark & Pla | Did Baltim n the Clar cost of \$1 timates or SC will ta anning Co | ore Roa ksburg I ,954,000 nly and i ke over | d; and 2,4 Master Pla 0. This pro may chang design and on and WS | 00 feet of n and Hya e depend d construc | 24-inch d attstown S previously ing on site | pecial St pecial St part of V specific water m | water tudy WSSC chains. | Current FY (10) G. Status Information Land Status: Right-of-Way may be requ % Project Completion: D-50% Est. Completion Date: April 2012 H. Map Map Reference Code: 46.24 46. | |

| A. Identification and Coding Inform | nation | | 2 Da | te: Octo | her 1 200 | 9 | 7. Pre PD | F Pg.No.: | 8. Req. | Adeq. Pu | ıb. Fac. | E. Annual Operating Budget Impact (00 | 0's) FY of Impact |
|--|-------------|-------------|-------------------------|---------------|-----------------------|----------------|----------------|----------------|------------------|----------------|-------------------|--|-------------------|
| 1. Project Number Agency Number | Update | Code | | | 501 1, 200 | .0 | | | | | | Program Costs Staff | |
| 093800 W-113.19 | Change | | Revis | ed: | | L | | | | | | Other Other Facility Costs Maintenance | 2 12 |
| 3. Project Name: Countryside Drive | Water Loc | р | | | | | 5.Agency: | w | SSC | | | Debt Service | 25 12 |
| 4. Program: Sanitation 6 | 6. Planning | g Area: | Coles | ville-Whit | e Oak & \ | /icinity P | .A. 33 | | | | | Total Costs | 27 12 |
| | | | | | | | | | | | | Impact on Water or Sewer Rate | |
| В. | | E | xpenditu | ire Sched | lule (000': | s) | | | | | | F. Approval and Expenditure Data (000 | s) |
| | (8) | (9) Thru | (10) Estimate | (11) Total | (12) Year 1 | (13) Year 2 | (14) Year 3 | (15) Year 4 | (16) Xoor 5 | (17) Year 6 | (18) Boyond | | - |
| Cost Elements | Total | FY '09 | FY '10 | 6 Years | FY '11 | FY '12 | FY '13 | FY '14 | Year 5 FY '15 | FY '16 | Beyond 6 Years | Date First in Capital Program | FY 09 |
| Planning, Design & Supervision | 43 | 10 | 31 | 2 | 2 | | | | | | | Date First Approved | FY 09 |
| Land | | | | | | | | | | | | Initial Cost Estimate | 276 |
| Site Improvements & Utilities | | | | | | | | | | | | Cost Estimate Last FY | 284 |
| Construction | 222 | | 216 | 6 | 6 | | | | | | | Present Cost Estimate | 303 |
| Other | 38 | | 37 | 1 | 1 | | | | | | | Approved Request, Last FY | 261 |
| Total | 303 | 10 | 284 | 9 | 9 | | | | | | | Total Expenditures & Encumbrances | 10 |
| С. | | | Funding | Schedul | o (000's) | | | | | | | Approval Request FY 11 | 9 |
| VSSC Bonds | 303 | 10 | 284 | 9 | c (000 3) 9 | | | | | | | | <u> </u> |
| | | | | | | | | | | | | Supplemental Approval Request Current FY (10) | |
| D. Description & Justification DESCRIPTION | | | | | | | | | | | | | |
| This project provides for the plan | ning dooi | ian ond o | opotruotic | on of oppr | ovimotoly | 140 foot | of 20 incl | o diamata | r watar m | oin Thio | abort | G. Status Information | |
| segment will complete an importa | | | | | | | | | | | 511011 | Land Status: Not Applicable | |
| Service Area Colesville Pressu | | | | | | | | | U | | | % Project Completion: D-80% | |
| JUSTIFICATION | | | | | | | | | | | | Est. Completion Date: June 2010 | |
| Plans & Studies | | | | | | | | | | | | H. Map Map Reference Code: | |
| 2006 Water Production Projection | ns; WSS0 | C Memora | andum da | ted April 1 | 7, 2007, 1 | from Nirr | nala Benn | in. | | | | BAR 50 | 4 3 |
| Specific Data | | | | | | | | | | | | AIRLAND | L'CT |
| WSSC records show the Harding later date under Contract No. 84 | | sion (Con | tract No. | 846202A) | was appr | oved in ' | 1984. This | s segmen | t was to b | e complet | ed at a | FARMS | |
| Cost Change | | | | | | | | | | | | BRIGGS CHAN | 113.19 |
| Not Applicable | | | | | | | | | | | | CHANEY | CHIL BRIGGS |
| STATUS Final Design | | | | | | | | | | | | Sut na So Upper g | CHANEY RD |
| <u>OTHER</u> | | | | | | | | | | | | StateBRUSH | ROAD Barto |
| The project scope has remained the site-specific conditions and d | | | tures sho | wn in Bloo | ck B are p | lanning l | evel estim | ates and | may chan | ge based | upon | COUNTRISIDE | A REAL |
| COORDINATION | | | | | | | | | | | | TRYSIDE | RE |
| Montgomery County Department Montgomery County Department | of Public | Works a | nd Transp Protection | ortation, I | Maryland- | National | Capital Pa | ark & Plar | ning Com | mission a | and | HARDINGS MARTEL | |
| NOTE This project supports 100% | | | | • | | | | | | | | PROGEWATER | *Ex 13 |
| | , | | | | | | | | | | | AT ISTARCOLOU SUR COL | |
| | | | | | | | | | | | | Ban Street And | 4 Anna |
| | | | | | | | | | | | | FAIRLAND S | MON |
| | | | | | | | | | | | | 218NE06 AND O | 1" =3557 ft |
| | | | | | | | | | | | | Roberts Mem | 8 |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

| A. Identification and Coding Inform | mation | e: Octob | per 1, 2009 | | 7. Pre PDI | Pg.No.: | 8. Req. | Adeq. P | ub. Fac. | E. Annual Operating Budget Impact (000's) FY of Impact | | |
|---|---------------------------------|----------------------------|--------------------------|--------------|--------------------------|-----------|--------------------------|--------------------------|--------------------------|--|--|--|
| 1. Project Number Agency Number | Update Code | Revis | | | | | | | | | Program Costs Staff | |
| 093801 W-138.02 | Change | Revisi | eu. | | | | | | | | Other | |
| 3. Project Name: Shady Grove Star | ndpipe Replacement | | | | | 5.Agency: | W | SSC | | | Debt Service 671 14 | |
| 4. Program: Sanitation | 6. Planning Area: | Gaithe | ersburg & | Vicinity P.A | . 20 | | | | | | Total Costs 671 14 Impact on Water or Sewer Rate 16 14 | |
| | | | | | | | | | | | Impact on water or Sewer Rate 1¢ 14 | |
| В. | | | | ule (000's) | (10) | (4.4) | (45) | (10) | (47) | (10) | F. Approval and Expenditure Data (000's) | |
| Cost Elements | (8) (9) Thru Total FY '09 | (10) Estimate FY '10 | (11) Total 6 Years | | (13) Year 2 FY '12 | | (15) Year 4 FY '14 | (16) Year 5 FY '15 | (17) Year 6 FY '16 | (18) Beyond 6 Years | Date First in Capital Program FY 09 | |
| Planning, Design & Supervision | 642 | 251 | 391 | 250 | 71 | | | 1110 | 1110 | 0 Touro | Date First Approved FY 09 | |
| Land | | | | | | | | | | | Initial Cost Estimate 7,475 | |
| Site Improvements & Utilities | | | | | | | | | | | Cost Estimate Last FY 7,699 | |
| Construction | 6,364 | | 6,364 | | 3,690 | 2,674 | | | | | Present Cost Estimate 8,058 | |
| Other | 1,052 | 38 | 1,014 | 38 | 564 | 4 412 | | | | | Approved Request, Last FY 299 | |
| Total | 8,058 | 289 | 7,769 | 288 | 4,325 | 5 3,156 | | | | | Total Expenditures & Encumbrances | |
| C . | | Funding | Schedul | e (000's) | | | | | | | Approval Request FY 11 288 | |
| WSSC Bonds | 8,058 | 289 | 7,769 | 288 | 4,325 | 5 3,156 | | | | | | |
| D Description & Justification | | | | | | | | | | | Current FY (10) | |
| Other 1,052 38 1,014 38 564 412 Approved Request, Last FY Approved Request Appr | | | | | | | | | | | | |

| A. Identification and Coding Inform | mation | | 2. Da | te: Octo | ber 1, 200 | | 7. Pre PD | F Pg.No.: | 8. Req. | Adeq. P | ub. Fac. | E. Annual Operating Budget Impact (000's) | FY of Impact |
|--|------------------|---------------|------------------|----------------|----------------|----------------|-----------------|----------------|----------------|----------------|----------------|--|--------------|
| 1. Project Number Agency Number 023800 W-153.00 | Update Change | | Revis | | ,- | | | | | | | Program Costs Staff Other | |
| 3. Project Name: Laytonsville Eleva | 0 | & Pumping | 0 | ien, Wood | lfield & Vi | | 5.Agency: 14 | w | SSC | | | Facility Costs Maintenance Debt Service Debt Service | |
| B. | | E | Expenditu | ure Scheo | dule (000' | s) | | | | | | Impact on Water or Sewer Rate | |
| | (8) | (9) Thru | (10) Estimate | (11) Total | (12) Year 1 | (13) Year 2 | (14) Year 3 | (15) Year 4 | (16) Year 5 | (17) Year 6 | (18) Beyond | Date First in Capital Program | FY 02 |
| Cost Elements Planning, Design & Supervision | Total 900 | FY '09 700 | FY '10 100 | 6 Years 100 | FY '11 100 | FY '12 | FY '13 | FY '14 | FY '15 | FY '16 | 6 Years | Date First Approved | FY 02 |
| Land | | | | | | | | | | | | Initial Cost Estimate | 58 |
| Site Improvements & Utilities | | | | | | | | | | | | Cost Estimate Last FY | 4,389 |
| Construction | 3,121 | | 1,500 | 1,621 | 1,621 | | | | | | | Present Cost Estimate | 4,519 |
| Other | 498 | | 240 | 258 | 258 | | | | | | | Approved Request, Last FY | 696 |
| Total | 4,519 | 700 | 1,840 | 1,979 | 1,979 | | | | | | | Total Expenditures & Encumbrances | 700 |
| C. | · | | Funding | g Schedu | le (000's) | | | | | | | Approval Request FY 11 | 1,979 |
| SDC | 1,519 | 700 | 340 | 479 | 479 | | | | | | | Supplemental Approval Request | |
| Contribution/Other | 3 000 | | 1 500 | 1 500 | 1 500 | | | | | | | Current EV (10) | |

D. Description & Justification

DESCRIPTION

The project provides for the planning, design, and construction for the creation of a new pressure zone to serve the town of Laytonsville and surrounding communities. Community outreach, site selection, design, and construction of an 0.5 million gallon elevated storage tank and a 1.72 MGD pumping station will be part of this project. The purpose of this project is to provide public water service to existing residences and commercial properties in addition to new homes in the town of Laytonsville and the surrounding communities. To the extent that this project will add new hookups to WSSC's existing customer base, 100% of this project supports future growth. Refer to the definition of growth projects in the Expenditure Section of the Program Overview at the front of this document. The project schedule is dependent upon the developer providing the property for the tank site.

Service Area Montgomery High Pressure Zone HG660

Capacity 0.5 MG

JUSTIFICATION

Plans & Studies

Preliminary Study for the Proposed Water Service Area for Town of Laytonsville (October 1999); Memorandum dated October 18, 2001, from the Manager of the Well and Septic Section, Montgomery County Department of Permitting Services, to Water and Waste Water Management, Montgomery County Department of Environmental Protection, finding that connection to the public water system will help address problems caused by groundwater contamination and lack of available septic replacement areas; Montgomery County Ten-Year Comprehensive Water Supply and Sewerage Systems Plan.

Specific Data

The preliminary Study for Proposed Water Service Area for the Town of Laytonsville indicates that, due to high ground elevations, a new pressure zone which entails a pumping station and an elevated storage tank is required. In May 2001, under CR 14-857, the Montgomery Council acted to permanently restrict the provision of community water service from any properties in the town currently zoned AG and from any properties adjacent to or near the town within the county zoned RDT. The Town of Laytonsville filed a formal application for water service with the WSSC in November 2001.

Cost Change

Costs were increased for inflation.

STATUS Various Stages of Planning & Design (WSSC Contract Nos. BM2938A00, BM2938B00, BM2938C00).

<u>OTHER</u>

The project scope has remained the same. Expenditures shown in Block B are estimates based on design estimates and may change based on final bid. It is estimated that an additional \$1.85 million of non-CIP sized pipeline work will also be required. The expenditure and construction schedule presented above in Block B reflects that the WSSC, the Developer of the Faulk's property, and the Town of

| | ene er ran ander negenanen |
|-----------------------|----------------------------|
| % Project Completion: | D-99% |
| Est. Completion Date: | April 2011 |

H. Map Map Reference Code:



D. DESCRIPTION & JUSTIFICATION (CONT.) Agency Number: W - 153.00 Project Name: Laytonsville Elevated Tank & Pumping Station Laytonsville have agreed to the funding mechanism for the Contribution/Other funding shown above in Block C. The project has been delayed due to the developer's revised grading plans and the need for additional soil investigation related to percolation. COORDINATION Maryland-National Capital Park & Planning Commission and Montgomery County Department of Environmental Protection. NOTE This project supports 100% Growth.

| A. Identification and Coding Inform | nation | | 2. Da | te: Octo | ber 1, 200 | 9 7 | 7. Pre PD | F Pg.No.: | 8. Req. | Adeq. Pu | ub. Fac. | E. Annual Operating Budget Impact (000's) | FY of Impact |
|--|--|---|--|---|--|--|---|---|--|---|---|--|--------------|
| 1. Project Number Agency Number | Update | Code | | | , | | | | | | | Program Costs Staff | |
| 983849 W-200.00 | Change | • | Revis | ea: | | | | | | | | Other Facility Costs Maintenance | |
| 3. Project Name: Land & Rights-of-V | Vay Acqui | sition - M | lontgomer | y County | | Ę | 5.Agency: | W | SSC | | | Debt Service | |
| 4. Program: Sanitation 6 | Planning | g Area: | Monte | gomery C | ounty | | | | | | | Total Costs Impact on Water or Sewer Rate | |
| B. | | E | Expenditu | ire Scheo | lule (000's | 5) | | | | | | F. Approval and Expenditure Data (000's) | |
| | (8) | (9) Thru | (10) | (11) Total | (12) Voor 1 | (13) | (14) | (15) Year 4 | (16) | (17) | (18) Devend | | |
| Cost Elements | Total | Thru FY '09 | Estimate FY '10 | 6 Years | Year 1 FY '11 | Year 2 FY '12 | Year 3 FY '13 | FY '14 | Year 5 FY '15 | Year 6 FY '16 | Beyond 6 Years | Date First in Capital Program | FY 98 |
| Planning, Design & Supervision | | | | | | | | | | | | Date First Approved | FY 98 |
| Land | 200 | | | 200 | 50 | 150 | | | | | | Initial Cost Estimate | |
| Site Improvements & Utilities | | | | | | | | | | | | Cost Estimate Last FY | 231 |
| Construction | | | | | | | | | | | | Present Cost Estimate | 231 |
| | 31 | | | 31 | 8 | 23 | | | | | | Approved Request, Last FY | 58 |
| Total | 231 | | | 231 | 58 | 173 | | | | | | Total Expenditures & Encumbrances | |
| | | | | <u>.</u> | (| | | | | | | | |
| C. | 407 | | Funding | | le (000's) | 450 | | | | | 1 | Approval Request FY 11 | 58 |
| SDC | 197 | | | 197 | 41 | 156 | | | | | | Supplemental Approval Request | |
| Contribution/Other | 34 | | | 34 | 17 | 17 | | | | | | Current FY (10) | |
| D. Description & Justification <u>DESCRIPTION</u> This PDF provides a consolidate new projects, as needed. Expentitose specific projects. These constructions is specific projects. These constructions are determined. Expendition needs are determined. The state of the | ditures ar osts do no d by the V gencies, o r land and the uncer ojects, wh ded comm the ded comm ts due to position by g & Design the same are comple s program | e prograr ot include VSSC an or require I rights-of rtainty of ich depen nunity ou minor ali y avoiding n s. The exp ete, the a n. | d are base purchase d are base ments ide -way acqu project-sp nd upon a treach wh gnment ch g project-s | ed upon a s which h ed upon fa ntified wit isitions p recific imp ctions of t ich impac nanges id pecific cc | anticipated ave alread acility plan hin the De rovides fle lementatic te Applica ts the timin entified lat st displays Block B a | I schedul dy been c velopme xibility in on schedu ant. Othe e in the c s prior to | es and ar completed rts, alignn nt Service expendin ules. This er conside anned pu design ph contactin | e required I. nent studi es Proces g funds in s format c erations in urchase, u ase, and t g property and may o | es, field s s (DSP). a specific hange alle clude the nanticipat he need t o owners. | urveys, c fiscal ye eviates th accomme ed rights- o assure | ear and nis odation -of-way the n actual | G. Status Information Land Status: Land & R/W to be acc % Project Completion: Not Applicable Est. Completion Date: Not Applicable H. Map Map Reference Code: | quired |

PROJECTS PENDING CLOSE-OUT Montgomery County Water Projects (costs in thousands)

| Project Number | Agency Number | Project Name | Estimated Total Cost | Expenditures Thru FY'09 | Estimated Expenditures FY'10 | Remarks |
|-------------------|------------------|-----------------------------------|----------------------------|-------------------------------|------------------------------------|---------------------------------------|
| 964860 | W-46.13 | Clarksburg Town Center Water Main | \$1,185 | \$991 | \$194 | Project completion expected in FY'10. |
| | | TOTALS | \$1,185 | \$991 | \$194 | |

Section 2 - Montgomery County Sewer Projects

DATE: October 1, 2009

FINANCIAL SUMMARY

(ALL FIGURES IN THOUSANDS)

MONTGOMERY COUNTY SEWER PROJECTS

| AGENCY | PROJECT | EST. | EXPEND | EST. | TOTAL | | EXPE | NDITURE S | CHEDUL | E | | BUDGET | PDF |
|----------|--|--------|--------|--------|--------|--------|--------|-----------|--------|------|------|---------|------|
| NUMBER | NAME | TOTAL | THRU | EXPEND | SIX | YR 1 | YR 2 | YR 3 | YR 4 | YR 5 | YR 6 | REQUEST | PAGE |
| | | COST | 09 | 10 | YEARS | 11 | 12 | 13 | 14 | 15 | 16 | 11 | NUM |
| S-25.03 | Twinbrook Commons Sewer | 745 | 335 | 55 | 355 | 127 | 98 | 89 | 41 | 0 | 0 | 127 | 2-4 |
| S-38.01 | Preserve at Rock Creek Wastewater Pumping Station | 1,092 | 0 | 636 | 456 | 456 | 0 | 0 | 0 | 0 | 0 | 456 | 2-5 |
| S-38.02 | Preserve at Rock Creek WWPS Force Main | 348 | 16 | 12 | 320 | 165 | 155 | 0 | 0 | 0 | 0 | 165 | 2-6 |
| S-53.21 | Seneca WWTP Enhanced Nutrient Removal | 13,938 | 820 | 2,132 | 10,986 | 4,387 | 4,387 | 2,212 | 0 | 0 | 0 | 4,387 | 2-8 |
| S-53.22 | Seneca WWTP Expansion, Part 2 | 37,693 | 840 | 4,986 | 31,867 | 12,529 | 12,529 | 6,809 | 0 | 0 | 0 | 12,529 | 2-10 |
| S-61.01 | Reddy Branch Wastewater Pumping Station Augmentation | 172 | 0 | 0 | 172 | 172 | 0 | 0 | 0 | 0 | 0 | 172 | 2-11 |
| S-84.46 | Clarksburg Triangle Outfall Sewer, Part 1 | 1,756 | 1,624 | 118 | 14 | 14 | 0 | 0 | 0 | 0 | 0 | 14 | 2-13 |
| S-84.47 | Clarksburg Triangle Outfall Sewer, Part 2 | 2,256 | 13 | 337 | 1,906 | 1,243 | 663 | 0 | 0 | 0 | 0 | 1,243 | 2-14 |
| S-84.60 | Cabin Branch Wastewater Pumping Station | 2,082 | 9 | 14 | 2,059 | 595 | 1,464 | 0 | 0 | 0 | 0 | 595 | 2-15 |
| S-84.61 | Cabin Branch WWPS Force Main | 376 | 0 | 48 | 328 | 274 | 54 | 0 | 0 | 0 | 0 | 274 | 2-16 |
| S-84.64 | Casey West Property Sewer Main | 653 | 489 | 119 | 45 | 45 | 0 | 0 | 0 | 0 | 0 | 45 | 2-17 |
| S-84.65 | Tapestry Wastewater Pumping Station | 607 | 7 | 288 | 312 | 156 | 156 | 0 | 0 | 0 | 0 | 156 | 2-18 |
| S-84.66 | Tapestry WWPS Force Main | 118 | 8 | 43 | 67 | 46 | 21 | 0 | 0 | 0 | 0 | 46 | 2-19 |
| S-94.11 | Damascus Centre WWPS Replacement | 1,207 | 0 | 0 | 1,207 | 26 | 261 | 920 | 0 | 0 | 0 | 26 | 2-20 |
| S-94.12 | Damascus WWTP Enhanced Nutrient Removal | 7,147 | 746 | 2,194 | 4,207 | 3,702 | 505 | 0 | 0 | 0 | 0 | 3,702 | 2-21 |
| S-103.15 | White Flint East (North Bethesda Center) Sewer Main | 2,139 | 116 | 1,409 | 614 | 553 | 61 | 0 | 0 | 0 | 0 | 553 | 2-23 |

DATE: October 1, 2009

FINANCIAL SUMMARY

(ALL FIGURES IN THOUSANDS)

MONTGOMERY COUNTY SEWER PROJECTS (Continued)

| AGENCY | PROJECT | EST. | EXPEND | EST. | TOTAL | | EXPE | NDITURE S | CHEDUL | E | | BUDGET | PDF |
|----------|---|--------|--------|--------|--------|--------|--------|-----------|--------|------|------|---------|------|
| NUMBER | NAME | TOTAL | THRU | EXPEND | SIX | YR 1 | YR 2 | YR 3 | YR 4 | YR 5 | YR 6 | REQUEST | |
| | | COST | 09 | 10 | YEARS | 11 | 12 | 13 | 14 | 15 | 16 | 11 | NUM |
| S-201.00 | Land & Rights-of-Way Acquisition - Montgomery County | 369 | 0 | 345 | 24 | 12 | 12 | 0 | 0 | 0 | 0 | 12 | 2-24 |
| | Projects Pending Close-Out | 5,839 | 5,839 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 2-25 |
| | TOTAL MONTGOMERY COUNTY SEWER PROJECTS | 78,537 | 10,862 | 12,736 | 54,939 | 24,502 | 20,366 | 10,030 | 41 | 0 | 0 | 24,502 | |

Montgomery County Sewer Projects New Projects Listing (costs in thousands)

| Agency Number | Project Name | Total Project Cost | Budget Year Cost | Page Number |
|------------------|--------------------------------|--------------------------|------------------------|----------------|
| S-61.01 | Reddy Branch WWPS Augmentation | \$172 | \$172 | 2-11 |
| | TOTALS | \$172 | \$172 | |

| A. Identification and Coding Inform | nation | 2. Dat | e: Octol | oer 1, 200 |)9 | 7. Pre PDF | Pg.No.: | 8. Req. | Adeq. Pu | ub. Fac. | E. Annual Operating Budget Impact (000's) FY of Impact |
|--|---|--|---|--|--|---|--|--|--|---------------------|--|
| 1. Project Number Agency Number | Update Code | Revis | | , | | | | | | | Program Costs Staff |
| 083801 S-25.03 | Change | Revis | ea. | | | | | | | | Other Facility Costs Maintenance 16 16 |
| 3. Project Name: Twinbrook Commo | ons Sewer | | | | ę | 5.Agency: | W | SSC | | | Debt Service 16 16 |
| 4. Program: Sanitation | 6. Planning Area: | North | Bethesda | P.A. 30 | | | | | | | Total Costs |
| В. | | Expenditu | | ule (000' | s) | | | 1 | 1 | | F. Approval and Expenditure Data (000's) |
| | (8) (9) Thru | (10) Estimate | (11) Total | (12) Year 1 | (13) Year 2 | (14) Year 3 | (15) Year 4 | (16) Year 5 | (17) Year 6 | (18) Beyond | Date First in Capital Program FY 08 |
| Cost Elements | Total FY '09 | FY '10 | 6 Years | FY '11 | FY '12 | FY '13 | FY '14 | FY '15 | FY '16 | 6 Years | Date First Approved FY 08 |
| Planning, Design & Supervision | 204 170 | 10 | 24 | 10 | 10 | 2 | 2 | | | | |
| Land | | | | | | | | | | | Initial Cost Estimate 677 |
| Site Improvements & Utilities | | | | | | | | | | | Cost Estimate Last FY 726 |
| Construction | 487 165 | 38 | 284 | 100 | 75 | | 34 | | | | Present Cost Estimate 745 |
| Other | 54 | 7 | 47 | 17 | 13 | | 5 | | | | Approved Request, Last FY 126 |
| Total | 745 335 | 55 | 355 | 127 | 98 | 89 | 41 | | | | Total Expenditures & Encumbrances 335 |
| C . | | Funding | Schedul | e (000's) | | | | | | | Approval Request FY 11 127 |
| Contribution/Other | 745 335 | 55 | 355 | 127 | 98 | 89 | 41 | | | | Supplemental Approval Request |
| D. Description & Justification DESCRIPTION This project provides for the plar Twinbrook Commons. Service Area Rock Creek Draid JUSTIFICATION Plans & Studies Phase I Letter of Findings (April Cost Change Not applicable STATUS Under Construction (WSSC OTHER The project scope has remained construction and 50% complete. change based upon site specific WSSC rate supported debt will be COORDINATION Washington Metropolitan Area T Associations. | inage Basin 5, 2006) C Contract Nos. DA the same. This pr The second phase conditions and des be used for this proj | oject will b oject will b o, DA4159 sign constr ect. | , DA4159 e comple B05, is in aints. Es | B05 , DA ted in two prelimina timated c | 4159Z05) phases. ary desigr ompletior | Cap). The first n and the e n schedule | p acity 3. Dhase, D expenditu is devel | 26 to 4.33 A4159A0 res show oper depe | 3 MGD 5, is unde n in Block endent. N | er < B may √o | <section-header><section-header><text><text><text><text></text></text></text></text></section-header></section-header> |

| A. Identification and Coding Inform | nation | | 2. Da | te: Octo | ber 1, 200 | 9 | 7. Pre PD | Pg.No.: | 8. Req. | Adeq. Pu | ıb. Fac. | E. Annual Operating Budget Impact (000's) | FY of Impact |
|--|--|--|--|--|--|--|---|--|------------------------------------|------------------------------|----------------|---|--------------|
| 1. Project Number Agency Number | Update | | Revis | | , | | | | | | | Program Costs Staff | |
| 103800 S-38.01 | Change | | | | | | | | | | | Other Facility Costs Maintenance | |
| 3. Project Name: Preserve at Rock (| Creek Wa | stewater F | Pumping | Station | | | 5.Agency: | W | SSC | | | Debt Service | |
| 4. Program: Sanitation 6 | 6. Plannin | g Area: | Uppe | r Rock Cr | eek P.A. 2 | 22 | | | | | | Total Costs Impact on Water or Sewer Rate | |
| В. | | E | xpenditu | re Sched | ule (000's | s) | | | | | | F. Approval and Expenditure Data (000's) | |
| | (8) | (9) Thru | (10) Estimate | (11) Total | (12) Year 1 | (13) Year 2 | (14) Year 3 | (15) Year 4 | (16) Year 5 | (17) Year 6 | (18) Beyond | | EV 40 |
| Cost Elements | Total | FY '09 | FY '10 | 6 Years | FY '11 | FY '12 | FY '13 | FY '14 | FY '15 | FY '16 | 6 Years | Date First in Capital Program | FY 10 |
| Planning, Design & Supervision | 100 | | 50 | 50 | 50 | | | | | | | Date First Approved | FY 10 |
| Land | | | | | | | | | | | | Initial Cost Estimate | 1,124 |
| Site Improvements & Utilities | | | | | | | | | | | | Cost Estimate Last FY | 1,124 |
| Construction | 850 | | 500 | 350 | 350 | | | | | | | Present Cost Estimate | 1,092 |
| Other | 142 | | 86 | 56 | 56 | | | | | | | Approved Request, Last FY | 572 |
| Total | 1,092 | | 636 | 456 | 456 | | | | | | | Total Expenditures & Encumbrances | |
| С. | | 1 1 | Funding | Schedul | e (000's) | | | | 1 | | | Approval Request FY 11 | 456 |
| Contribution/Other | 1,092 | | 636 | 456 | 456 | | | | | | | Supplemental Approval Request | |
| D. Description & Justification | | | | | | | | | | | I | Current FY (10) | |
| This project provides for the plar Rock Creek subdivision. Service Area Rock Creek Drai JUSTIFICATION Plans & Studies MNCPPC Upper Rock Creek Ma (January, 2009). Specific Data Montgomery County required thi environmentally sensitive area o Cost Change Not applicable STATUS Preliminary Design (WSSC OTHER The project scope has remained depending on site-specific condi supported debt will be used for the COORDINATION Montgomery County Governmer NOTE This project supports 1009 | aster Plan s project a n the project C Contract the same tions and his project | in (April, 200 and the ac ect site. No. CP4 b. Expendi design co t. SC Project | Capac 04); The H company 770A08,) tures sho nstraints. | ity 0.07 r Hydraulic I ing force I wn in Bloo Estimate | ngd Planning A main to av ck B are p cd comple | Analysis void grav lanning- tion date | Popula for the Pre vity sewer of level estim e is develop | tion 200 eserve at construction pates only per depen | Rock Cree on through and may | ek subdivi n an change | ision | G. Status Information Land Status: Site provided by applic % Project Completion: D-0% Est. Completion Date: Developer dependent H. Map Map Reference Code: Colonel Zadok (38.01) Map uder (38.01) Map uder (1"=16) | ant |

| A. Identification and Coding Inform | nation | | 2. Da | te: Octo | ber 1, 200 |)9 | 7. Pre PD | F Pg.No.: | 8. Req. | Adeq. Pu | ub. Fac. | E. Annual Operating Budget Impact (000's) | FY of Impact |
|---|-------------|----------------|--------------------|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|--|--------------|
| 1. Project Number Agency Number | Update | Code | | | | | | | | | | Program Costs Staff | |
| 103801 S-38.02 | Change |) | Revis | ea: | | | | | | | | Other | 13 |
| 3. Project Name: Preserve at Rock (| Creek WW | PS Force | e Main | | | | 5.Agency | - W | SSC | | | Debt Service | |
| 4. Program: Sanitation 6 | 6. Planning | g Area: | Uppe | r Rock Cr | eek P.A. 2 | 22 | | | | | | Total Costs | 13 |
| В. | | E | Expenditu | re Sched | ule (000': | s) | | | | | | F. Approval and Expenditure Data (000's) | |
| | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) | (18) | | |
| Cost Elements | Total | Thru FY '09 | Estimate FY '10 | Total 6 Years | Year 1 FY '11 | Year 2 FY '12 | Year 3 FY '13 | Year 4 FY '14 | Year 5 FY '15 | Year 6 FY '16 | Beyond 6 Years | Date First in Capital Program | FY 10 |
| Planning, Design & Supervision | 36 | 16 | 10 | 10 | 5 | 5 | | | | | | Date First Approved | FY 10 |
| Land | | | | | | | | | | | | Initial Cost Estimate | 339 |
| Site Improvements & Utilities | | | | | | | | | | | | Cost Estimate Last FY | |
| Construction | 268 | | | 268 | 138 | 130 |) | | | | | Present Cost Estimate | 348 |
| Other | 44 | | 2 | 42 | 22 | 20 |) | | | | | Approved Request, Last FY | 178 |
| Total | 348 | 16 | 12 | 320 | 165 | 155 | ; | | | | | Total Expenditures & Encumbrances | 16 |
| С. | | | Funding | Schedu | e (000's) | | | | | | | Approval Request FY 11 | 165 |
| Contribution/Other | 348 | 16 | 12 | 320 | 165 | 155 | ; | | | | | Supplemental Approval Request | |
| D. Description & Justification | | | • | | · · · · · · | | | | | | | Current FY (10) | |
| DESCRIPTION | | | | | | | | | | | | | |
| This project provides for the plan | nning, desi | ign, and c | constructio | on of 2,60 | 0 feet of 4 | l-inch dia | ameter for | ce main to | serve Th | e Preserv | ve at | G. Status Information | |
| Rock Creek subdivision. | | • - | • | | | | - · | | | | | Land Status: Not determined % Project Completion: D-0% | |
| Service Area Rock Creek Drai JUSTIFICATION | nage Basi | IN | Capac | i ty 0.07 r | nga | | Popula | ation 200 | | | | Est. Completion Date: Developer dependent | |
| Plans & Studies | | | | | | | | | | | | | |
| MNCPPC Upper Rock Creek Are | ea Master | Plan (Ap | ril, 2004); | The Hydr | aulic Plan | ning Ana | alysis for t | he Preser | ve at Roc | k Creek | | H. Map Map Reference Code: | |
| subdivision (January, 2009). | | | , ,, | | | 5 | , | | | | | | 6 |
| Specific Data | | | | | | | | | | | | | 一樣 |
| Montgomery County required this through an environmentally sens | | | | | water pun | nping sta | ation to av | oid gravity | sewer co | onstruction | n | Colonel Zadok 38.02 | |
| Cost Change | | | ojeot olte. | | | | | | | | | Magruder | |
| Not applicable. | | | | | | | | | | | | HS | |
| STATUS Preliminary Design (WSSC | C Contract | t No. DA4 | 770Z08,) | | | | | | | | | | ES. |
| OTHER | | | | | | | | | | | | | |
| The project scope has remained | | | | | | | | | | | | | |
| depending on site-specific condit support debt will be used for this | | design co | onstraints. | Estimate | d comple | tion date | e is develo | per deper | dent. No | WSSC ra | ate- | | |
| COORDINATION | projooti | | | | | | | | | | | | |
| Maryland State Highway Adminis | stration. M | lontaome | rv Countv | Governm | ent and V | VSSC P | roiect S-38 | 8.01. Pres | erve at Ro | ock Creek | (| | |
| Wastewater Pumping Station. | | leingenie | ., | | | | | | | | | | |
| NOTE This project supports 100% | % Growth. | | | | | | | | | | | 5 | |
| | | | | | | | | | | | | 222NW05/06 PAR 0 1"=1 | 606 FEET |
| | | | | | | | | | | | | 222NW05/06 | |
| | | | | | | | | | | | | | 1 |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| L | | | | | | | | | | | | J L | |

SENECA WASTEWATER TREATMENT PLANT PROJECTS (costs in thousands)

| PROJECT NUMBER | PROJECT NAME | ADOPTED FY'10 TOTAL COST | ADOPTED FY'11 TOTAL COST | CHANGE \$ | CHANGE % | SIX-YEAR COST | COMPLETION DATE (est) |
|-------------------|---------------------------------------|-----------------------------|-----------------------------|--------------|-------------|------------------|--------------------------|
| S-53.21 | Seneca WWTP Enhanced Nutrient Removal | \$13,279 | \$13,938 | \$659 | 5.0% | \$10,986 | OCTOBER 2012 |
| S-53.22 | Seneca WWTP Expansion, Part 2 | 25,027 | 37,693 | 12,666 | 50.6% | 31,867 | OCTOBER 2012 |
| | TOTALS | \$38,306 | \$51,631 | \$13,325 | 34.8% | \$42,853 | |

<u>Summary</u>: The Seneca WWTP Enhanced Nutrient Removal (ENR) project (S-53.21) provides for the planning, design, and construction of improvements necessary to meet the requirements of MDE's Enhanced Nutrient Removal Program. The Seneca WWTP Expansion, Part 2 project (S-53.22) provides for the planning, design, and construction of improvements at the Seneca WWTP necessary to meet projected growth in this service area by increasing the capacity from 20 MGD to 26 MGD. The individual project description forms on the pages following this summary provide additional information.

<u>Cost Impact</u>: The Seneca WWTP Enhanced Nutrient Removal (ENR) project (S-53.21) costs were increased for inflation. The Seneca WWTP Expansion, Part 2 project (S-53.22) costs were increased to include an estimate for design services during construction and reflect revised estimates for the aeration basins and solids handling facilities available at the 70% design stage.

| A. Identification and Coding Inform | nation | | 2. Da | te: Octo | ber 1, 200 | 9 | 7. Pre PD | F Pg.No.: | 8. Req. | Adeq. Pu | ub. Fac. | E. Annual Operating Budget Impact (000's) | FY of Impact |
|---|-------------|-------------|------------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--|--------------|
| 1. Project Number Agency Number | Update | Code | | | | Ē | | | | | | Program Costs Staff | |
| 073800 S-53.21 | Change | | Revis | sed: | | | | | | | | Other Facility Costs Maintenance | |
| 3. Project Name: Seneca WWTP Er | nhanced N | lutrient Re | emoval | | | Ę | 5.Agency: | W | SSC | | | Debt Service | |
| 4. Program: Sanitation 6 | 6. Planning | g Area: | Lowe | r Seneca | P.A. 18 | | | | | | | Total Costs Impact on Water or Sewer Rate | |
| В. | | E | Expenditu | ure Scheo | lule (000' | s) | | | | | | F. Approval and Expenditure Data (000's) | |
| | (8) | (9) Thru | (10) Estimate | (11) Total | (12) Year 1 | (13) Year 2 | (14) Year 3 | (15) Year 4 | (16) Year 5 | (17) Year 6 | (18) Beyond | Date First in Capital Program | FY 07 |
| Cost Elements | Total | FY '09 | FY '10 | 6 Years | FY '11 | FY '12 | FY '13 | FY '14 | FY '15 | FY '16 | 6 Years | | |
| Planning, Design & Supervision | 3,222 | 820 | 938 | 1,464 | 488 | 488 | 488 | | | | | Date First Approved | FY 07 |
| Land | | | | | | | | | | | | Initial Cost Estimate | 22,862 |
| Site Improvements & Utilities | | | | | | | | | | | | Cost Estimate Last FY | 13,279 |
| Construction | 9,523 | | 1,000 | 8,523 | 3,500 | 3,500 | 1,523 | | | | | Present Cost Estimate | 13,938 |
| Other | 1,193 | | 194 | 999 | 399 | 399 | 201 | | | | | Approved Request, Last FY | 5,012 |
| Total | 13,938 | 820 | 2,132 | 10,986 | 4,387 | 4,387 | 2,212 | | | | | Total Expenditures & Encumbrances | 820 |
| С. | - | | Funding | g Schedu | le (000's) | | | | | | | Approval Request FY 11 | 4,387 |
| State Aid | 13,938 | 820 | 2,132 | 10,986 | 4,387 | 4,387 | 2,212 | | | | | | |
| D. Description & Justification | | | | | | | | | | | | Supplemental Approval Request Current FY (10) | |
| DESCRIPTION | | | | | | | | | | | | | |
| This project provides for the plan | nnina desi | ion and c | onstructio | on of impr | ovements | at the Se | eneca WV | VTP nece | essarv to r | neet the | | G. Status Information | |
| requirements of MDE's Environm | | | | | | | | | | | es the | Land Status: No land or R/W requ | ired |
| operation of existing basins in th | e Modified | l Ludzack | -Ettinger | (MLE) mo | de and pr | ovides fo | or an addit | ional 150 | -foot clarif | ier and | | % Project Completion: D-70% | |
| expansion of the filter gallery to i | | | | | for phos | phorous r | emoval d | own to the | e permit g | oal of 0.1 | 8 mg/l | Est. Completion Date: October 2012 | |
| at the maximum month flow of 3 Service Area Seneca Creek D | | - | 20 10100 | ·)· | | | | | | | | H. Map Map Reference Code: | |
| JUSTIFICATION | Tainage D | 4311 | | | | | | | | | | | |
| Plans & Studies | | | | | | | | | | | | | |
| ENR Alternatives for the Seneca | | | | | | | | | | | | | |
| Environment, Feasibility Study A | pproval Le | etter, (Jul | y 27, 200 | 5); WSS0 | C Prelimin | ary Engir | neering Re | eport, (Se | ptember, | 2008) | | | |
| Specific Data | | | | | | | | | | | | | |
| As the result of an Executive Ord be upgraded to the "limits of tech | | | | | | | | | | | | | |
| Strategy in May, 2003. The ENF | | | | | | | | | | | | | |
| average effluent concentrations | | | | | | | | | | | | | |
| goals have been incorporated in | | | | | | | | | | | | MAP NOT AVAILABLE | |
| The ENR Strategy also calls for | | | | | | | | | | | | | |
| achieve an annual average efflue quality standards for the Chesap | | | | | | | | | | | | | |
| incorporated into NPDES permit | | | | | | | | | | | | | |
| The END Stretegy also calls for | the creatic | | ND gront | program | to provida | funding | for the ne | 00000 | vootowoto | r trootmo | nt plant | | |
| The ENR Strategy also calls for upgrades. The Chesapeake Bay | | | | | | | | | | | | | |
| utility bills paid by Maryland resid | dents and | business | es. The f | unds are t | to be used | l largely t | o fund up | to 100% | of eligible | planning | , | | |
| design, and construction costs for | | | | | | | | | | | | | |
| (BNR) facility to an ENR facility. necessary liquid treatment proce | | | | | | | | | interprete | ed as the | | | |
| Cost Change | | | raix progr | | | aoyen al | ia priospi | | | | | | |
| Costs were increased for inflatio | n. | | | | | | | | | | | | |
| STATUS Preliminary Design (WSSC | | No. CD4 | 260A05, |). | | | | | | | | | |

D. DESCRIPTION & JUSTIFICATION (CONT.) Agency Number: S - 53.21 Project Name: Seneca WWTP Enhanced Nutrient Removal OTHER The project scope has remained the same. The project schedule and expenditures shown in Block B are preliminary design level estimates only and may change further based upon site specific conditions, design constraints and negotiations with the Maryland Department of the Environment (MDE). The project has been delayed as negotiations continue with MDE. COORDINATION Montgomery County Government, Montgomery County Department of Environmental Protection, Maryland Department of the Environment and WSSC Project S-53.22, Seneca WWTP Expansion, Part 2. This project supports 100% Environmental Regulation. NOTE

| A. Identification and Coding Inform | mation | 2. Da | te: Octo | ber 1, 200 | 09 | 7. Pre PD | F Pg.No.: | 8. Req. A | deq. Pu | ıb. Fac. | E. Annual Operating Budget Impact (000's) | FY of Impact |
|--|---------------------|--------------------|---------------|------------------|------------------|------------------|-------------------|----------------|------------------|-------------------|--|--------------|
| 1. Project Number Agency Number | Update Code | | | , | ſ | | | | | | Program Costs Staff | |
| 083802 S-53.22 | Change | Revis | ea: | | Ľ | | | | | | Other Facility Costs Maintenance | |
| 3. Project Name: Seneca WWTP E | xpansion, Part 2 | | | | Ę | 5.Agency: | W | SSC | | | Debt Service | |
| 4. Program: Sanitation | 6. Planning Area: | Lowe | r Seneca | P.A. 18 | | | | | | | Total Costs | |
| | | | | | | | | | | | Impact on Water or Sewer Rate | |
| В. | E | Expenditu | ire Sched | lule (000' | s) | | | | | | F. Approval and Expenditure Data (000's) | |
| | (8) (9) | (10) Estimoto | (11) Total | (12) Voor 1 | (13) Voor 2 | (14) Xoor 2 | (15) | (16) Voor F | (17) Voor 6 | (18) Boyond | | 51/ 00 |
| Cost Elements | Total FY '09 | Estimate FY '10 | 6 Years | Year 1 FY '11 | Year 2 FY '12 | Year 3 FY '13 | Year 4 FY '14 | | Year 6 FY '16 | Beyond 6 Years | Date First in Capital Program | FY 08 |
| Planning, Design & Supervision | 6,543 840 | 1,533 | 4,170 | 1,390 | 1,390 | 1,390 | | | | | Date First Approved | FY 07 |
| Land | | | | | | | | | | | Initial Cost Estimate | 16,478 |
| Site Improvements & Utilities | | | | | | | | | | | Cost Estimate Last FY | 25,027 |
| Construction | 27,800 | 3,000 | 24,800 | 10,000 | 10,000 | 4,800 | | | | | Present Cost Estimate | 37,693 |
| Other | 3,350 | 453 | 2,897 | 1,139 | 1,139 | 619 | | | | | Approved Request, Last FY | 11,316 |
| Total | 37,693 840 | 4,986 | 31,867 | 12,529 | 12,529 | 6,809 | | | | | Total Expenditures & Encumbrances | 840 |
| C. | | Funding | g Schedul | e (000's) | | | | | | | Approval Request FY 11 | 12,529 |
| SDC | 37,693 840 | 4,986 | | . , | | 6,809 | | | | | | ,0_0 |
| | | ., | | , | , | -, | | | | | Supplemental Approval Request Current FY (10) | |
| D. Description & Justification | | | | | | | | | | | | |
| DESCRIPTION This project provides for the pla | nning docign and a | opotruotic | on of impr | overente | ot the Se | | | acon to ma | act the | | G. Status Information | |
| projected growth in this service | | | | | | | | | | am at | Land Status: Public/Agency owned | land |
| 26 MGD (an increase from 20 M | | | | | | | | | | | % Project Completion: D-70% | |
| foot clarifier, expansion of the fil | | | | | | | | | | | Est. Completion Date: October 2012 | |
| 0.18 mg/l at the maximum mont consist of an additional centrifug | | | | | | | | | | ements | H. Map Map Reference Code: | |
| distribution system will also be e | | l di loo int | | | | | o d di i d di i i | | ourour | | n. map map kelerence code. | |
| Service Area Seneca Creek | Drainage Basin | | | | | | | | | | | |
| JUSTIFICATION | | | | | | | | | | | | |
| Plans & Studies | | | | | | | | | | | | |
| ENR Alternatives for the Seneca | a Wastewater Treat | ment Plan | nt, Gannet | t Fleming | (June, 20 | 005) | | | | | | |
| Specific Data | | | | | | | | | | | | |
| The Maryland Department of the upgraded to the "limits of techno | | | | | | | | | | | | |
| goals regarding effluent concern | | | | | | | | | | | | |
| program to provide a funding me | echanism for wastev | water trea | tment plai | nt upgrade | es. | | | | | | MAP NOT AVAILABLE | |
| Cost Change | | | | | | | | | | | | |
| Cost were increased to include basins and solids handling facili | | | | constructi | ion and re | eflect revis | ed estima | ates for the | aeratior | ١ | | |
| STATUS Preliminary Design (WSS | C Contract No. CD4 | 260B05,) |). | | | | | | | | | |
| OTHER | | | | | | | | | | | | |
| The project scope has remained only and may change further ba the Environment. | | | | | | | | | | | | |
| COORDINATION | | | | | | | | | | | | |
| Montgomery County Governme Environment and WSSC Projec | | | | | | tection, M | aryland D | epartment | of the | | | |
| NOTE This project supports 100 | | | | | | | | | | | | |

| A. Identification and Coding Information | | | 2. Dat | 2. Date: October 1, 2009 7 | | | | 7. Pre PDF Pg.No.: 8. Req. | | Adeq. Pub | . Fac. | E. Annual Operating Budget Impact (000's) FY of | Impact |
|--|---------------------------------------|-------------|------------------|----------------------------|----------------|----------------|----------------|----------------------------|----------------|----------------|----------------|---|--------|
| 1. Project Number Agency Number | Update C | ode | | | , | [| | | | | | Program Costs Staff | |
| 113801 S-61.01 | Add | | Revis | ed: | | L | | | 1 | | | Other | |
| 3. Project Name: Reddy Branch WV | VPS Augme | entation | | | | 4 | 5.Agency: | WS | SSC | | | Debt Service | |
| 4. Program: Sanitation | 6. Planning | Area: | Olney | & Vicinity | / P.A. 23 | | | | | | | Total Costs | |
| | | | | | | | | | | | | Impact on Water or Sewer Rate | |
| В. | | E | xpenditu | re Sched | ule (000': | s) | - | · | | | | F. Approval and Expenditure Data (000's) | |
| | (8) | (9) Thru | (10) Estimate | (11) Total | (12) Year 1 | (13) Year 2 | (14) Year 3 | (15) Year 4 | (16) Year 5 | (17) Year 6 | (18) Beyond | Date First in Capital Program | Y 11 |
| Cost Elements | Total | FY '09 | FY '10 | 6 Years | FY '11 | FY '12 | FY '13 | FY '14 | FY '15 | | 6 Years | | |
| Planning, Design & Supervision | 150 | | | 150 | 150 | | | | | | | | (11 |
| Land | | | | | | | | | | | | | 172 |
| Site Improvements & Utilities | | | | | | | | | | | | Cost Estimate Last FY | |
| Construction | | | | | | | | | | | | Present Cost Estimate | 172 |
| Other | 22 | | | 22 | 22 | | | | | | | Approved Request, Last FY | |
| Total | 172 | | | 172 | 172 | | | | | | | Total Expenditures & Encumbrances | |
| C. | | | Funding | Schedul | e (000's) | | | | | | | Approval Request FY 11 | 72 |
| SDC | 172 | | | 172 | 172 | | | | | | | Supplemental Approval Request | |
| D. Description & Justification | - | | | | | | | L L | | | | Current FY (10) | |
| DESCRIPTION | | | | | | | | | | | | | |
| This project provides for the plan | nning and ini | itial desi | ign of imp | rovement | s to the R | eddy Bra | anch Wast | ewater Pu | mping St | ation. The | | G. Status Information | |
| capacity of the station is current | ly being eval | luated a | is part of t | he Waste | water Pu | mping St | ation Capa | acity Evalu | ation. Ar | | | Land Status: Public/Agency owned land | |
| expansion and/or other improver | ments are ex | xpected | to occur | within the | existing for | ootprint o | of the pum | ping statio | n. | | | % Project Completion: P-10% | |
| Service Area Rock Creek Dra | inage Basin | | | | | | Caj | bacity To | be deterr | mined. | | Est. Completion Date: Undetermined | |
| JUSTIFICATION | | | | | | | | | | | | H. Map Map Reference Code: | |
| Plans & Studies | · · · · · · · · · · · · · · · · · · · | | | . Dia . | | 0 | | | | L D M | | | |
| Wastewater Pumping Station Ca Development, Calibration, and A | | | | | | | | | | | | | |
| Specific Data | | | | | | | | | | | | | |
| The Production Team has recen Station. | itly identified | d reliabili | ity issues | with the e | xisting pu | imps in tr | ne Reddy | Branch Wa | astewater | r Pumping | | | |
| Cost Change Not applicable. | | | | | | | | | | | | MAP NOT APPLICABLE | |
| STATUS Facility Planning (WSSC C | Contract No. | CM505 | 9A09,). | | | | | | | | | | |
| <u>OTHER</u> | | | | | | | | | | | | | |
| The project scope was develope Block B above provide for planni project moves into design and co | ing and preli | iminary (| design co | sts for the | improver | | | | | | | | |
| COORDINATION | | | | | | | | | | | | | |
| Montgomery County Governmer Pumping Station Capacity Evalu | | ironmen | tal Protec | tion Agen | cy, Regio | n III and | WSSC Pr | oject S-17 | 0.07, Wa | stewater | | | |
| NOTE This project supports 100% | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

CABIN BRANCH AREA PROJECTS (costs in thousands)

| PROJECT NUMBER | PROJECT NAME | ADOPTED FY'10 TOTAL COST | ADOPTED FY'11 TOTAL COST | CHANGE \$ | CHANGE % | SIX-YEAR COST | COMPLETION DATE (est) |
|-------------------|---|-----------------------------|-----------------------------|--------------|-------------|------------------|--------------------------|
| S-84.46 | Clarksburg Triangle Outfall Sewer, Part 1 | \$1,783 | \$1,756 | (\$27) | -1.5% | \$14 | Developer Dependent |
| S-84.47 | Clarksburg Triangle Outfall Sewer, Part 2 | 2,190 | 2,256 | 66 | 3.0% | 1,906 | Developer Dependent |
| S-84.60 | Cabin Branch WWPS | 2,021 | 2,082 | 61 | 3.0% | 2,059 | Development Dependent |
| S-84.61 | Cabin Branch WWPS Force Main | 365 | 376 | 11 | 3.0% | 328 | Development Dependent |
| S-84.64 | Casey West Property Sewer Main | 634 | 653 | 19 | 3.0% | 45 | Developer Dependent |
| | TOTALS | \$6,993 | \$7,123 | \$130 | 1.9% | \$4,352 | |

Summary: This group of Development Services Process (DSP) projects is programmed to serve new development in the Clarksburg area west of Route 355, including the Clarksburg Triangle and Cabin Branch areas. The need for these projects was identified in the Stage 3 requirements of the Clarksburg Master Plan and Hyattstown Special Study Area reports. Estimated completion schedules are dependent upon the property developers' schedules. No WSSC rate supported debt will be used for these projects. The projects that will impact local wetlands will be coordinated with the Maryland-National Capital Park & Planning Commission, Montgomery County Department of Environmental Protection, Maryland Department of the Environment, Maryland Department of Natural Resources, and the U.S. Fish & Wildlife Service. No projects were added or closed out of this group. The individual project description forms on the pages following this summary provide additional information.

Cost Impact: The Clarksburg Triangle Outfall Sewer, Part 1 project (S-84.46), was revised based upon information provided by the developer. Other project costs were increased for inflation.

| A. Identification and Coding Information 2. Date: October 1, 2009 | | | | | | | 7. Pre PD | F Pg.No. | : 8. Req. | Adeq. Pu | ub. Fac. | E. Annual Operating Budget Impact (000's) | Y of Impact |
|---|--|--|---|---|---|---------------------------------------|---|---|--|--|----------------------------|--|-------------------|
| 1. Project Number Agency Number | Update | Code | | | ., 2000 | | | | | | | Program Costs Staff | |
| 023806 S-84.46 | Change | | Revis | ed: | | | | | | | | Other | 10 |
| 3. Project Name: Clarksburg Triang | le Outfall S | ewer, Pa | rt 1 | | | | 5.Agency: | W | SSC | | | Debt Service | |
| 4. Program: Sanitation | 6. Planning | g Area: | Clark | sburg & V | icinity P.A. | 13 | | | | | | Total Costs | 12 |
| | | | | | | | | | | | | | |
| В. | (0) | | - | | ule (000's | - | (14) | (15) | (16) | (17) | (19) | F. Approval and Expenditure Data (000's) | |
| Cost Elements | (8) Tatal | (9) Thru | (10) Estimate | (11) Total | (12) Year 1 | (13) Year 2 | Year 3 | (15) Year 4 | (16) Year 5 | Year 6 | (18) Beyond | Date First in Capital Program | FY 02 |
| Planning, Design & Supervision | Total 164 | FY '09 78 | FY '10 84 | 6 Years 2 | FY '11 2 | FY '12 | FY '13 | FY '14 | FY '15 | FY '16 | 6 Years | Date First Approved | FY 02 |
| Land | | _ | - | | | | | | | | | Initial Cost Estimate | 22 |
| Site Improvements & Utilities | | | | | | | | | | | | Cost Estimate Last FY | 1,783 |
| Construction | 1,575 | 1,546 | 19 | 10 | 10 | | | | | | | Present Cost Estimate | 1,756 |
| Other | 17 | ., | 15 | 2 | 2 | | | | | | | Approved Request, Last FY | 35 |
| Total | 1,756 | 1,624 | 118 | 14 | 14 | | | | | | | Total Expenditures & Encumbrances | 1,624 |
| | ., | 1,021 | | | | | | | | | | | |
| C. Contribution/Other | 1,756 | 1,624 | Funding 118 | Schedul | e (000's) 14 | | | 1 | | | | Approval Request FY 11 | 14 |
| | 1,750 | 1,024 | 110 | 14 | 14 | | | | | | | Supplemental Approval Request | |
| D. Description & Justification DESCRIPTION | | | | | | | | | | | | Current FY (10) | |
| development in Stage 3 of the C Service Area Seneca Creek E JUSTIFICATION Plans & Studies Clarksburg Master Plan and Hys and Sewer Plan Service Area M Stage 3 and 4 Facility Plan, Roc Specific Data The Cabin Branch neighborhood Cost Change Not applicable. STATUS Under Construction (WSS OTHER The project scope has remained Permit. Estimated completion s COORDINATION Maryland-National Capital Park Department of the Environment Service. NOTE This project supports 100 | Drainage Ba attstown Sp lap Amendi dgers Cons d includes (GC Contract d the same schedule is & Planning (Non-Tidal | becial Stu ments for sulting (De Clarksbur t No. DA3 . Design a develope | Capac dy Area (the Clark ecember, g Triangle 326G02, and const er depend sion, Mor | ity 9.4 M 1994); M soburg Ma 2004). e, and oth). ruction wi ent. No V | ontgomery ster Plan A er Stage 3 I be perfor /SSC rate County De | nrea (A proper med by suppor | y Council F dopted Fet rties west o y the devel rted debt w | oruary 13 of I-270 ar oper unde ill be use onmental | n Number , 2001); C nd east of er a Syste d for this p Protectior | Clarksburg Clarksbu m Extens project. | y Area rg Road. sion | % Project Completion: C-95% Est. Completion Date: Developer Dependent H. Map Map Reference Code: 84.46 WEST OLD BLACK BLACK SEE GHD C12 SEE | North (Greens |
| Service. | | vvetland | s Permit). | Maryland | Departme | ent of N | vatural Kes | ources a | na U.S. Fi | sn and W | /IIQIITE | SEE GRID C12 IMAPORDANE CT 2 STAPPORDANE CD | 9 ft |

| A. Identification and Coding Inform | 2. Da | te: Octo | ber 1, 200 |)9 | 7. Pre PDF Pg.No.: 8. Req. Adeq. Pub. Fac. | | | | | E. Annual Operating Budget Impact (000's | FY of Impact | | |
|---|--------------|-----------------|------------------|---------------|--|----------------|----------------|----------------|----------------|--|----------------|---|-----------------|
| 1. Project Number Agency Number | Update | Code | | | , | | | | | | | Program Costs Staff | |
| 023811 S-84.47 | Change | | Revis | ea: | | | | | | | | Other Facility Costs Maintenance | 86 13 |
| 3. Project Name: Clarksburg Triangle | e Outfall S | Sewer, Pa | rt 2 | | | | 5.Agency: | W | SSC | | | Debt Service | |
| 4. Program: Sanitation 6 | 6. Planning | g Area: | Clarks | sburg & V | icinity P.A | . 13 | | | | | | Total Costs | 86 13 |
| | | | | | | | | | | | | Impact on Water or Sewer Rate | |
| В. | | E | xpenditu | ire Sched | lule (000' | s) | | 1 | | 1 | | F. Approval and Expenditure Data (000's) | |
| | (8) | (9) Thru | (10) Estimate | (11) Total | (12) Year 1 | (13) Year 2 | (14) Year 3 | (15) Year 4 | (16) Year 5 | (17) Year 6 | (18) Beyond | Date First in Capital Program | FY 02 |
| Cost Elements | Total | FY '09 | FY '10 | 6 Years | FY '11 | FY '12 | FY '13 | FY '14 | FY '15 | FY '16 | 6 Years | Date First Approved | FY 02 |
| Planning, Design & Supervision | 392 | 13 | 172 | 207 | 155 | 52 | | | | | | | |
| Land | | | | | | | | | | | | Initial Cost Estimate | 22 |
| Site Improvements & Utilities | | | | | | | | | | | | Cost Estimate Last FY | 2,190 |
| Construction | 1,571 | | 121 | 1,450 | 926 | 524 | | | | | | Present Cost Estimate | 2,256 |
| Other | 293 | | 44 | 249 | 162 | 87 | | | | | | Approved Request, Last FY | 1,208 |
| Total | 2,256 | 13 | 337 | 1,906 | 1,243 | 663 | | | | | | Total Expenditures & Encumbrances | 13 |
| С. | | | Funding | Schedu | le (000's) | | | | | | | Approval Request FY 11 | 1,243 |
| Contribution/Other | 2,256 | 13 | 337 | 1,906 | 1,243 | 663 | | | | | | Supplemental Approval Request | |
| D. Description & Justification | | | | | | | | | | | | Current FY (10) | |
| DESCRIPTION | | | | | | | | | | | | | |
| This project provides for the plan | nina, desi | ign and co | onstructio | n of appro | oximately | 800 feet | of 24-inch | , 3,300 fe | et of 21-ir | ich, and 3 | 3,500 | G. Status Information | |
| feet of 18-inch diameter outfall se | ewer along | g a tributa | ary west o | f and para | allel to U.S | S. Interst | ate 270, n | orth of We | est Old Ba | altimore R | load. | Land Status: Right-of-Way may | be required |
| This sewer is projected to serve | | | | | | | area west | of I-270 a | nd potent | ially serve | е | % Project Completion: D-50% | |
| Clarksburg Development Stage | | | | - | | an. | Barria | | .00 | | | Est. Completion Date: Developer Dependent | dent |
| Service Area Seneca Creek D JUSTIFICATION | гападе Ба | asin | Capac | ity 9.0 M | GD | | Popula | ation 16,5 | 000 | | | H. Map Map Reference Code: | |
| Plans & Studies | | | | | | | | | | | | Clastaburg | 1 th |
| Clarksburg Master Plan and Hya | ttstown Sr | oecial Stu | ıdv Area (| 1994): M | ontaomer | v Countv | Council F | Resolution | Number | 14-772: V | Vater | | GARNKIRK |
| and Sewer Plan Service Area Ma | ap Amend | ments for | the Clark | sburg Ma | | | | | | | | 84.47 Exit-18 GATEWAY 270 | FARMS |
| 3 and 4 Area Facility Plan, Rodge | ers Consu | ulting (Dec | cember, 2 | 2004). | | | | | | | | 04.47 BUS CTR BUS | A LE |
| Specific Data | in altrala a | <u>Olankaku</u> | | | Ct | | : | 61.070 er | -l t - f | <u>Olankaku</u> | | 2000 | A A A A |
| The Cabin Branch neighborhood | includes | Clarksbur | g mangie | e, and oth | er Stage | s propen | les west o | 1 1-270 an | d east of | Clarksbur | g Road. | | |
| Cost Change Not Applicable. | | | | | | | | | | | | | Roder Hill |
| STATUS Preliminary Design (WSSC | | | 326002 | 1 | | | | | | | | | 1 |
| OTHER | Contract | | 020002,) | | | | | | | | | | CLARKSE |
| The project scope has remained | the same | . Expendi | tures sho | wn in Blo | ck B are p | lanning l | evel estim | ates only. | and may | change | | | HGT |
| depending on pipe size decisions | s, site spe | cific cond | litions and | d design c | | | | | | | | | |
| dependent. No WSSC rate supp | orted debt | t will be us | sed for thi | is project. | | | | | | | | | - |
| COORDINATION | | | | | | | | | | | | | Senec |
| Maryland-National Capital Park & Department of the Environment (| | | | | | | | | | | | WEST OLD A STRA | 12000 |
| Service and WSSC Project S-84 | | | | | | | alurai Res | ources, o | .3. FISH a | | e | | BEAU |
| NOTE This project supports 100% | | 0 | 5 | - | - | | | | | | | | \square |
| | | | | | | | | | | | | 231NW13 | " = 3401 ft |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

| A. Identification and Coding Inform | nation | 2. Dat | te: Octol | oer 1, 2009 | | 7. Pre PD | F Pg.No. | 8. Req. | Adeq. Pu | ub. Fac. | E. Annual Operating Budget Impact (000's) FY of Impact | | |
|--|---|--|---|--|--|--|--|--|---|---------------------------------------|---|--|--|
| 1. Project Number Agency Number | Update Code | Revis | | | | | | | | | Program Costs Staff | | |
| 023807 S-84.60 | Change | Revis | eu. | | | | | | | | Other | | |
| 3. Project Name: Cabin Branch Was | stewater Pumping | Station | | | | 5.Agency: | W | SSC | | | Debt Service | | |
| 4. Program: Sanitation | 6. Planning Area: | Clarks | sburg & V | icinity P.A. | 13 | | | | | | Total Costs | | |
| | | | | | | | | | | | | | |
| В. | (0) (0) | Expenditu | | 1 | (10) | (4.0) | (45) | (10) | (47) | (40) | F. Approval and Expenditure Data (000's) | | |
| | (8) (9) Thru | (10) Estimate | (11) Total | | (13) Year 2 | (14) Year 3 | (15) Year 4 | (16) Year 5 | (17) Year 6 | (18) Beyond | Date First in Capital Program FY 02 | | |
| Cost Elements Planning, Design & Supervision | Total FY '09 434 | FY '10 9 12 | 6 Years 413 | FY '11 201 | FY '12 212 | FY '13 | FY '14 | FY '15 | FY '16 | 6 Years | Date First Approved FY 02 | | |
| Land | | .2 | 410 | 201 | | | | | | | Initial Cost Estimate 22 | | |
| Site Improvements & Utilities | | | | | | | | | | | Cost Estimate Last FY 2,021 | | |
| Construction | 1,377 | | 1,377 | 316 | 1,061 | | | | | | Present Cost Estimate 2,082 | | |
| Other | 271 | 2 | 269 | 78 | 191 | | | | | | Approved Request, Last FY 531 | | |
| Total | | 9 14 | 2,059 | 595 | 1,464 | | | | | | Total Expenditures & Encumbrances 9 | | |
| | 2,002 | - | | | ., | | | | | | | | |
| C. Contribution/Other | 2,082 | Funding | Schedul 2,059 | e (000's) 595 | 1,464 | | | | | | Approval Request FY 11 595 | | |
| D. Description & Justification | 2,002 | 9 14 | 2,059 | 393 | 1,404 | | | | | | Supplemental Approval Request | | |
| This project provides for the pla station is projected to serve new Service Area Seneca Creek D JUSTIFICATION Plans & Studies Clarksburg Master Plan and Hya and Sewer Plan Service Area M 3 and 4 Area Facility Plan, Rodg Specific Data The Cabin Branch neighborhood Cost Change Costs were increased for inflatio STATUS Facility Planning (WSSC 0 OTHER The project scope has remained developer dependent. No WSS COORDINATION Maryland-National Capital Park of Department of the Environment Service and WSSC Projects S-8 NOTE This project supports 1000 | v development in S Drainage Basin Attstown Special S ap Amendments f gers Consulting (D d includes Clarksb n. Contract Nos. CP3 I the same. Expen C rate supported of & Planning Comm (Non-Tidal Wetlar 94.46, Clarksburg | Stage 3 of th Capac Study Area (for the Clark December, 2 burg Triangle 3326A02 , C aditures sho debt will be hission, Mor nds Permit), | ne Clarksb ity 0.9 M 1994); Ma sburg Ma 004). e, and other P3326B0. wn in Bloc used for the atgomery (Marylanc | ourg plannir GD ontgomery ster Plan A er Stage 3 2). 2). 2). 2). 2). 2). 2). 2). 2). 2). | g area Count <u>y</u> rea (A proper nning artme | v west of I- Popula / Council F dopted Fel ties west of estimates nt of Envira | 270. ation 1,5 Resolutior oruary 13 of I-270 ar only. Est conmental ources, L | 50 n Number , 2001); C nd east of imated cc Protection J.S. Fish a | 14-772; V larksburg Clarksbur mpletion n, Marylar | Vater Stage rg Road. date is | Land Status: Right-of-Way may be required % Project Completion: P-95% Est. Completion Date: Development Dependent H. Map Map Reference Code: | | |

| A. Identification and Coding Inform | 2. Dat | te: Octo | ber 1, 200 | 9 7 | 7. Pre PD | F Pg.No.: | 8. Req. | Adeq. Pu | ıb. Fac. | E. Annual Operating Budget Impact (000's) FY of Impact | | |
|--|---|--|--|--|--------------------------------|------------------|------------------------|------------------|--------------------|--|---------------------|--|
| 1. Project Number Agency Number | Code | | | | | | | | | | Program Costs Staff | |
| 023808 S-84.61 | Change | | Revis | ea: | | | | | | | | Other Facility Costs Maintenance 29 13 |
| 3. Project Name: Cabin Branch WW | PS Force | Main | | | | Ę | 5.Agency: | W | SSC | | | Debt Service |
| 4. Program: Sanitation 6 | 6. Planning | g Area: | Clarks | sburg & V | icinity P.A | A. 13 | | | | | | Total Costs 29 13 Impact on Water or Sewer Rate |
| В. | | E | Expenditu | re Sched | ule (000's | s) | | | | | | F. Approval and Expenditure Data (000's) |
| | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) | (18) | |
| Cost Elements | Total | Thru FY '09 | Estimate FY '10 | Total 6 Years | Year 1 FY '11 | Year 2 FY '12 | Year 3 FY '13 | Year 4 FY '14 | Year 5 FY '15 | Year 6 FY '16 | Beyond 6 Years | Date First in Capital Program FY 02 |
| Planning, Design & Supervision | 82 | | 42 | 40 | 30 | 10 | | | | | | Date First Approved FY 02 |
| Land | | | | | | | | | | | | Initial Cost Estimate 22 |
| Site Improvements & Utilities | | | | | | | | | | | | Cost Estimate Last FY 365 |
| Construction | 245 | | | 245 | 208 | 37 | | | | | | Present Cost Estimate 376 |
| Other | 49 | | 6 | 43 | 36 | 7 | | | | | | Approved Request, Last FY 265 |
| Total | 376 | | 48 | 328 | 274 | 54 | | | | | | Total Expenditures & Encumbrances |
| С. | | | Funding | Schedul | e (000's) | | | | | | | Approval Request FY 11 274 |
| Contribution/Other | 376 | | 48 | 328 | 274 | 54 | | | | | | Supplemental Approval Request |
| D. Description & Justification | ļ | | | | 1 | | 1 | | I | | | Current FY (10) |
| DESCRIPTION | | | | | | | | | | | | G. Status Information |
| development in Stage 3 of the Cl Service Area Seneca Creek Di JUSTIFICATION Plans & Studies Clarksburg Master Plan and Hyar and Sewer Plan Service Area Ma 3 and 4 Area Facility Plan, Rodge Specific Data The Cabin Branch neighborhood | rainage Ba ttstown Sp ap Amend ers Consu | asin pecial Stu ments for ulting (Dec | Capac dy Area (the Clark cember, 2 | i ty 0.9 M 1994); M sburg Ma 004). | ontgomer <u>y</u> ster Plan | Area (Ad | Council F opted Fet | oruary 13, | Number 2001); C | larksburg | y Stage | % Project Completion: P-85% Est. Completion Date: Development Dependent H. Map Map Reference Code: |
| Cost Change | | | | | | | | | | | | |
| Not applicable. | | | | | | | | | | | | |
| STATUS Planning | | | | | | | | | | | | |
| OTHER The project scope has remained depending on pipe size decisions dependent. No WSSC rate supp | s, site spe | cific cond | litions, and | d design o | constraints | s. Estima | ated comp | pletion dat | e is devel | oper | | |
| COORDINATION | | | | | | | | | | | | WEET OLD DE |
| Maryland-National Capital Park & Department of the Environment (Service and WSSC Projects S-8 S-84.60, Cabin Branch Wastewa NOTE This project supports 100% | Non-Tidal 4.46, Clar ter Pumpi | l Wetland ksburg Tr ing Statio | s Permit), riangle Ou | Maryland | l Departm | ent of Na | tural Res | ources, U | .S. Fish a | nd Wildlif | ie | 230NW13 |
| | | | | | | | | | | | | |

| A. Identification and Coding Information | | | | te: Octo | ber 1, 200 | 9 | 7. Pre PD | F Pg.No.: | 8. Req. | Adeq. Pu | ub. Fac. | E. Annual Operating Budget Impact (000's) | FY of Impact |
|---|---|--|---|---|--|----------------|---|----------------|------------------|----------------|----------------|--|--|
| 1. Project Number Agency Number | Update | | Revis | | , | | | | | | | Program Costs Staff | |
| 053800 S-84.64 | Change | | Revis | eu. | | | | | | | | Other | 13 |
| 3. Project Name: Casey West Prope | erty Sewer | ⁻ Main | | | | | 5.Agency: | W | Debt Service | | | | |
| 4. Program: Sanitation 6 | 6. Plannin | g Area: | City o | of Gaithers | burg P.A. | 21 | | | Total Costs | 13 | | | |
| В. | | E | xpenditu | ire Sched | lule (000's | s) | | | | | | F. Approval and Expenditure Data (000's) | |
| | (8) | (9) Thru | (10) Estimate | (11) Total | (12) Year 1 | (13) Year 2 | (14) Year 3 | (15) Year 4 | (16) Year 5 | (17) Year 6 | (18) Beyond | | |
| Cost Elements | Total | FY '09 | FY '10 | 6 Years | FY '11 | FY '12 | FY '13 | FY '14 | FY '15 | FY '16 | 6 Years | Date First in Capital Program | FY 05 |
| Planning, Design & Supervision | 177 | 173 | 2 | 2 | 2 | | | | | | | Date First Approved | FY 05 |
| Land | | | | | | | | | | | | Initial Cost Estimate | 533 |
| Site Improvements & Utilities | | | | | | | | | | | | Cost Estimate Last FY | 634 |
| Construction | 454 | 316 | 101 | 37 | 37 | | | | | | | Present Cost Estimate | 653 |
| Other | 22 | | 16 | 6 | 6 | | | | | | | Approved Request, Last FY | 206 |
| Total | 653 | 489 | 119 | 45 | 45 | | | | | | | Total Expenditures & Encumbrances | 489 |
| C . | C. Funding Schedule (000's) | | | | | | | | | | | | 45 |
| Contribution/Other | | | | | | | | | | | | | |
| D. Description & Justification DESCRIPTION This project provides for the desiserve the Casey West property. Service Area Seneca Creek D JUSTIFICATION Plans & Studies Phase I Letter of Findings for Th Cost Change Not applicable. STATUS Under Construction (WSSCOTHER The project scope has remained Permit. Estimated completion data COORDINATION Montgomery County Government NOTE This project supports 100% | rainage B e Parkland C Contrac the same ate is deve | asin ds subdiv t Nos. DA . Design eloper de Gaithersb | Capac ision and 3542A03 and cons bendent. | ity 1.6 to design pla , DA3542 truction w No WSS0 | 2.5 MGD ans 2D03). ill be perfo C rate-sup | prmed b | Popula y the deve debt will be | ntion 1,25 | 55 er a Syste | em Extens | | BENNINGTON CORPS NOT CORPS NOT CORPS | 64 VILLA OVERLO BEL MM Exit-11 Exit-11 |

| A. Identification and Coding Inform | dentification and Coding Information | | | | | 2. Date: October 1, 2009 7 | | | | Adeq. Pu | ıb. Fac. | E. Annual Operating Budget Impact (000's) | FY of Impact |
|--|--------------------------------------|-------------|------------------|---------------|----------------|----------------------------|----------------|----------------|----------------|----------------|----------------|--|----------------|
| 1. Project Number Agency Number | Update (| | Revis | | , | | | | | | | Program Costs Staff | |
| 083803 S-84.65 | Change | | | eu. | | | | | | | | Other Facility Costs Maintenance | |
| 3. Project Name: Tapestry Wastewa | ter Pumpir | ng Statio | า | | | | 5.Agency: | W | SSC | | | Debt Service | |
| 4. Program: Sanitation 6 | 6. Planning | g Area: | Clarks | sburg & V | icinity P.A | . 13 | | | | | | Total Costs Impact on Water or Sewer Rate | |
| В. | | E | xpenditu | re Sched | lule (000's | s) | | | | | | F. Approval and Expenditure Data (000's) | |
| | (8) | (9) Thru | (10) Estimate | (11) Total | (12) Year 1 | (13) Year 2 | (14) Year 3 | (15) Year 4 | (16) Year 5 | (17) Year 6 | (18) Beyond | | EV 00 |
| Cost Elements | Total | FY '09 | FY '10 | 6 Years | FY '11 | FY '12 | FY '13 | FY '14 | FY '15 | FY '16 | 6 Years | Date First in Capital Program | FY 08 |
| Planning, Design & Supervision | 106 | 7 | 33 | 66 | 33 | 33 | • | | | | | Date First Approved | FY 08 |
| Land | | | | | | | | | | | | Initial Cost Estimate | 552 |
| Site Improvements & Utilities | | | | | | | | | | | | Cost Estimate Last FY | 573 |
| Construction | 423 | | 217 | 206 | 103 | 103 | ; | | | | | Present Cost Estimate | 607 |
| Other | 78 | | 38 | 40 | 20 | 20 |) | | | | | Approved Request, Last FY | 144 |
| Total | 607 | 7 | 288 | 312 | 156 | 156 | ; | | | | | Total Expenditures & Encumbrances | 7 |
| С. | | | Funding | Schedu | e (000's) | | | | I | | | Approval Request FY 11 | 156 |
| Contribution/Other | 607 | 7 | 288 | 312 | 156 | 156 | ; | | | | | Supplemental Approval Request | |
| D. Description & Justification | | | | | | | | | | | <u> </u> | Current FY (10) | |
| DESCRIPTION | | | | | | | | | | | | | |
| This project provides for the plan | nning, desi | gn, and c | onstructio | on of a 0.3 | 4 MGD w | astewat | er pumpino | station to | o serve th | e Tapestr | v | G. Status Information | |
| Subdivision. | 0, | 0 | | | | | | • | | | , | Land Status: Not applicable | |
| Service Area Seneca Creek D | rainage Ba | asin | Capac | ity 0.34 I | MGD | | Popula | tion 590 | | | | % Project Completion: P-100% | |
| JUSTIFICATION | | | | | | | | | | | | Est. Completion Date: Developer Dependent | |
| Plans & Studies | | | | | | | | | | | | H. Map Map Reference Code: | |
| Tapestry Subdivision Hydraulic F | Planning A | nalysis (N | March, 20 | 06) | | | | | | | | RUMPING BERGINS BERGINS BOTTO | 626 |
| | | | | | | | | | | | | BEOOK ACRES Orchard Meeter | Brank |
| Cost Change | | | | | | | | | | | | nung E Ma | DÚSHEN |
| Not applicable | | | | | | | | | | | | Amera and an and an and | C Del |
| STATUS Planning (WSSC Contract | No DA39 | 93704) | | | | | | | | | | | |
| OTHER | | 0020.,). | | | | | | | | | | ACRES KING FARM | |
| The project scope has remained | the same. | . Expendi | tures sho | wn in Bloo | ck B are p | lanning | level estim | ates only, | and may | change | | BRINK MEADOW | |
| depending on site specific condit | tions and c | design co | | | | | | | | | ate- | | 20 |
| supported debt will be used for th | his project. | • | | | | | | | | | | Common Marcal Part Bring Read | 20 |
| COORDINATION | | | 0 | | | | | - | | F M . | | Manager Street Control of Stre | BRINKWOOD |
| Montgomery County Governmen | | ommunity | / CIVIC AS | sociations | and ws: | SC Proje | ect 5-84.66 | , Tapestr | y wwwps | Force Ma | iin. | and the second of the second o | - and - |
| NOTE This project supports 100% | % Growth. | | | | | | | | | | | Seneral Se | FOR |
| | | | | | | | | | | | | All and a second s | RTH CERMANTOWN |
| | | | | | | | | | | | | and an and and another | SRECIAL PARE |
| | | | | | | | | | | | | Exit-16 Sector of Sector Secto | A CONTRACT |
| | | | | | | | | | | | | 230NW09 PELSVLIP Press 2 TS TS 1" = | 1779 ft |
| | | | | | | | | | | | | MEADAWBROOM BIT | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

| A. Identification and Coding Inform | 2. Da | te: Octo | ber 1, 200 |)9 | 7. Pre PD | F Pg.No.: | 8. Req. | Adeq. Pu | ıb. Fac. | E. Annual Operating Budget Impact (000's) FY of Impa | act | | |
|--|--|---|---|--|---|-----------------------------|---------------------------|--------------------------|------------------------|--|----------------|--|-----|
| 1. Project Number Agency Number | Update | Code | | | , | | | | | | | Program Costs Staff | |
| 083804 S-84.66 | Change | | Revis | eu. | | | | | | | | Other | 13 |
| 3. Project Name: Tapestry WWPS F | Force Main | ו | | | | | 5.Agency: | W | SSC | | | Debt Service | |
| 4. Program: Sanitation | 6. Planning | g Area: | Clarks | sburg & V | icinity P.A | . 13 | | | | | | Total Costs | 13 |
| В. | | E | Expenditu | re Sched | lule (000': | s) | | | | | | F. Approval and Expenditure Data (000's) | |
| | (8) | (9) Thru | (10) Estimate | (11) Total | (12) Year 1 | (13) Year 2 | (14) Year 3 | (15) Year 4 | (16) Year 5 | (17) Year 6 | (18) Beyond | | 0 |
| Cost Elements | Total | FY '09 | FY '10 | 6 Years | FY '11 | FY '12 | FY '13 | FY '14 | FY '15 | FY '16 | 6 Years | Date First in Capital Program FY 0 | |
| Planning, Design & Supervision | 21 | 8 | 5 | 8 | 5 | 3 | ; | | | | | Date First Approved FY 0 | |
| Land | | | | | | | | | | | | Initial Cost Estimate 110 | = 1 |
| Site Improvements & Utilities | | | | | | | | | | | | Cost Estimate Last FY 113 | 3 |
| Construction | 82 | | 32 | 50 | 35 | 15 | i | | | | | Present Cost Estimate 118 | 3 |
| Other | 15 | | 6 | 9 | 6 | 3 | ; | | | | | Approved Request, Last FY 45 | 5 |
| Total | 118 | 8 | 43 | 67 | 46 | 21 | | | | | | Total Expenditures & Encumbrances | 3 |
| С. | | | Funding | Schedul | e (000's) | | | | | | | Approval Request FY 11 46 | ; |
| Contribution/Other | 118 | 8 | 43 | 67 | 46 | 21 | | | | | | Supplemental Approval Request | - |
| DESCRIPTION This project provides for the plar subdivision. Service Area Seneca Creek D JUSTIFICATION Plans & Studies Tapestry Subdivision Hydraulic I Cost Change Not Applicable STATUS Planning OTHER The project scope has remained depending on site specific condi supported debt will be used for t COORDINATION Montgomery County Governmer Station. NOTE This project supports 1005 | Prainage B Planning A I the same tions and o his project | asin Analysis (I e. Expend design cc t. Communit | March, 20 ditures sho onstraints. | Popu 06) wwn in Blo Estimated | t lation state p ck B are p d completi | 590 blanning ion date | level estin is develop | nates only per depend | /, and may dent. No | y change WSSC ra | te- | <section-header><section-header></section-header></section-header> | |

| A. Identification and Coding Inform | nation 2. D | ate: Octo | ber 1, 200 | 09 | 7. Pre PD | F Pg.No.: 8. Re | q. Adeq. Pub. Fac. | E. Annual Operating Budget Impact (000 |)'s) FY of Impact |
|--|---|---|----------------|----------------|----------------|-----------------------------|------------------------------|--|-------------------|
| 1. Project Number Agency Number | Update Code | | | | | | | Program Costs Staff | |
| 063802 S-94.11 | Change | ised: | | _ | | | | Other Facility Costs Maintenance | |
| 3. Project Name: Damascus Centre | WWPS Replacement | | | ę | 5.Agency: | WSSC | | Debt Service | 40 12 |
| 4. Program: Sanitation 6 | 6. Planning Area: Dar | nascus & V | icinity P.A | A. 11 | | | | Total Costs Impact on Water or Sewer Rate | 40 12 |
| В. | Expendi | ture Scheo | lule (000' | s) | | | | F. Approval and Expenditure Data (000's | s) |
| | (8) (9) (10) Thru Estimat | (11) e Total | (12) Year 1 | (13) Year 2 | (14) Year 3 | (15) (16) Year 4 Year 5 | (17) (18) 5 Year 6 Beyond | Date First in Capital Program | FY 06 |
| Cost Elements | Total FY '09 FY '10 | 6 Years | FY '11 | FY '12 | FY '13 | FY '14 FY '1 | | | |
| Planning, Design & Supervision | 350 | 350 | 23 | 227 | 100 | | | Date First Approved | FY 06 |
| Land | | | | | | | | Initial Cost Estimate | 460 |
| Site Improvements & Utilities | | | | | | | | Cost Estimate Last FY | 544 |
| Construction | 700 | 700 | | | 700 | | | Present Cost Estimate | 1,207 |
| Other | 157 | 157 | 3 | 34 | 120 | | | Approved Request, Last FY | |
| Total | 1,207 | 1,207 | 26 | 261 | 920 | | | Total Expenditures & Encumbrances | |
| C. | Fundi | ng Schedu | le (000's) | | | | | Approval Request FY 11 | 26 |
| WSSC Bonds | 1,207 | 1,207 | 26 | 261 | 920 | | | Supplemental Approval Request | |
| D. Description & Justification | · · · · | • | | • | | | | Current FY (10) | |
| This project provides for the plar Damascus Centre WWPS. Service Area Patuxent North I | | tion of a ne acity 0.29 | | GD waste | | tion Damascus Center and | Centre Shopping | G. Status Information Land Status: Site not selecte % Project Completion: P-0% Est. Completion Date: FY 2013 | d |
| | | | | | | areas. | | H. Map Map Reference Code: | |
| JUSTIFICATION Plans & Studies Memorandum dated April 6, 200 Specific Data | 4, from Brian Mosby thru T | om Heikkin | en to Stev | ve Gerwin | ı; Design (| Guideline DG-08 | | | |
| This project is needed to replace in the 1970's. The existing static | | | | | | lant that was tak | en over by WSSC | | |
| Cost Change | | | | | | | | | |
| The costs were increased to refl | o 1 | st to replace | e the exist | ing statio | n. | | | | |
| STATUS Planning (WSSC Contract | No. CP4508A06,). | | | | | | | MAP NOT AVAILABLI | Ξ |
| OTHER The project scope has remained site specific conditions and desig constructed to the new DG-08 D and design of the project with de recommended projects from the update. Land costs are included | gn constraints. The cost es esign Guideline for small we evelopment interests in the replacement WWPS. Due | th a new station rdinate the location erve master plan- | | | | | | | |
| COORDINATION | | | | | | | - | | |
| Montgomery County Governmer Environmental Protection (Draft | | al Park & Pl | lanning Co | ommissio | n and Mo | ntgomery County | Department of | | |
| NOTE This project supports 100% | % System Improvement. | | | | | | | | |
| | | | | | | | | | |

| A. Identification and Coding Inform | mation | | 2. Da | te: Octo | ber 1, 200 | 9 | 7. Pre PD | F Pg.No.: | 8. Req. | Adeq. Pu | ıb. Fac. | E. Annual Operating Budget Impact (000's) | FY of Impact |
|---|--|--|---|--|---|---|---|---|---|---|--|---|--------------|
| 1. Project Number Agency Number | Update (| | | | | | | | | | | Program Costs Staff | |
| 073801 S-94.12 | Change | | Revis | sea: | | - | | | | | | Other Facility Costs Maintenance | |
| 3. Project Name: Damascus WWTP | P Enhanced | d Nutrient | Remova | 1 | | | 5.Agency: | W | SSC | | | Debt Service | |
| 4. Program: Sanitation | 6. Planning | g Area: | Dama | ascus & V | icinity P.A | . 11 | | | | | | Total Costs | 13 |
| В. | | E | xpenditu | ire Sched | ule (000's | ;) | | | | | | F. Approval and Expenditure Data (000's) | |
| | (8) | (9) Thru | (10) Estimate | (11) Total | (12) Year 1 | (13) Year 2 | (14) Year 3 | (15) Year 4 | (16) Year 5 | (17) Year 6 | (18) Beyond | | |
| Cost Elements | Total | FY '09 | FY '10 | 6 Years | FY '11 | FY '12 | FY '13 | FY '14 | FY '15 | FY '16 | 6 Years | Date First in Capital Program | FY 07 |
| Planning, Design & Supervision | 1,542 | 746 | 318 | 478 | 239 | 239 | | | | | | Date First Approved | FY 07 |
| Land | | | | | | | | | | | | Initial Cost Estimate | 1,560 |
| Site Improvements & Utilities | | | | | | | | | | | | Cost Estimate Last FY | 5,805 |
| Construction | 4,770 | | 1,590 | 3,180 | 2,980 | 200 | | | | | | Present Cost Estimate | 7,147 |
| Other | 835 | | 286 | 549 | 483 | 66 | | | | | | Approved Request, Last FY | 5,149 |
| Total | 7,147 | 746 | 2,194 | 4,207 | 3,702 | 505 | | | | | | Total Expenditures & Encumbrances | 746 |
| С. | | | Funding | g Schedul | e (000's) | | | | | | | Approval Request FY 11 | 3,702 |
| WSSC Bonds | 429 | 45 | 132 | 252 | 222 | 30 | | | | | | Supplemental Approval Request | |
| State Aid | 6,718 | 701 | 2,062 | 3,955 | 3,480 | 475 | | | | | | Current FY (10) | |
| D. Description & Justification <u>DESCRIPTION</u> This project provides for the plar requirements of MDE's Enhance configuration to Bardenpho proc divided into four process trains we trains into four trains also allows for methanol and several other be Service Area Patuxent North II <u>JUSTIFICATION</u> Plans & Studies ENR Alternatives for Damascus Approval Letter (July 27, 2005); Specific Data As the result of an Executive Orn be upgraded to the "limits of tech Strategy in May, 2003. The ENF average effluent concentrations goals have been incorporated in The ENR Strategy also calls for achieve an annual average efflu quality standards for the Chesap incorporated into NPDES permit The ENR Strategy also calls for upgrades. The Chesapeake Bar utility bills paid by Maryland resid design, and construction costs fn (BNR) facility to an ENR facility. | ed Nutrient cess and pro- which will po- s the treatmo- biodiesel by Drainage B WWTP, G Maryland E der issued hnology" for R Strategy of total nitri- to the Ches- wastewate lent nitroger beake Bay. ts as enforce the creatio y Restorati- dents and to or ENR upg | Removal ovide me rovide tar ient capa- /products asin asin by the Go or nutrient calls for a ogen (4 n sapeake l or treatme n concern Once th ceable eff on of an E on Act wa by sapeas, w | (ENR) P thanol fe- hkage/pro- city to clo eming (Ju nt of the overnor of removal assigning mg/l) and Bay Prog ent plants tration of ese stand fluent limit NR grant as passe es. The f | rogram. T ed capabil poess redu- pser match une, 2005 Environme f Maryland , the Mary "load goa total phoi ram tribut to continu 3 mg/l as dards have its. The m program d in 2004 a unds are t defined ge | The prelim ity. After a indancy for the curre by Marylan- ent, Eligibi d in Noven land Depa ls" to mur sphorous a goal, no e been ad- iore string to provide and authoi o be used enerally as | anary rec dditiona r periodi nt influen d Depart lity Dete ber, 200 rtment of icipal wa 0.3 mg/l jies Man ng nutrie t a perm opted, th ent conc funding ized the largely t | commenda I study, the c mainten at flows. T ment of the rmination 02 calling of the Envi astewater yland adop ent remova- it limit. M e load goa entration of for the ne- collection to fund up t of conve | ation was to e existing ance. Sp The carbo The carbo the carbo de Environ Letter (De for Maryla to Maryla for Maryla for Maryla treatment intreatment intreatment aryland ha als of the l goals will for cessary w of a surc to 100% of | to conver two proce litting the n source ment, Fe cember 2 nd waste plants ba sign capa 04. ance and as propos ENR Stra remain as astewate harge on of eligible | t existing l ess trains existing p will be de asibility S 22, 2008) water plan the ENR ised on ar city. The attempt t sed new w tegy will b s goals. r treatmer water and planning, | basin will be process signed tudy tudy nts to nnual se load o vater be nt plant d sewer | G. Status Information Land Status: No land or R/W required % Project Completion: D-95% Est. Completion Date: July 2011 H. Map Map Reference Code: | ired |

D. DESCRIPTION & JUSTIFICATION (CONT.)

Agency Number: S - 94.12

Project Name: Damascus WWTP Enhanced Nutrient Removal

Cost Change

The cost estimate for this project has been revised to reflect the current construction cost estimate and the final cost sharing agreement with the Maryland Department of the Envirionment.

STATUS Preliminary Design (WSSC Contract No. CD4261A05,).

OTHER

The project scope has remained the same. Expenditures shown in Block B are based upon preliminary design estimates and may change based upon site specific conditions, additional design constraints. The expenditure estimates and funding schedule reflect the final cost sharing agreement with the Maryland Department of the Environment.

COORDINATION

Montgomery County Government, Montgomery County Department of Environmental Protection and Maryland Department of the Environment.

NOTE This project supports 100% Environmental Regulation.

| | Devide and | | | | | | | | | Adeq. Pu | ub. Fac. | E. Annual Operating Budget Impact (000's) | FY of Impact |
|--|--|--|---|---|--|--|--|---|--|------------------------------------|---------------------------|--|----------------|
| 1. Project Number Agency Number | | | Povie | od: | | | | | | | | Program Costs Staff | |
| 063803 S-103.15 | Change | | | | | | | | | | | Other | 3 13 |
| 3. Project Name: White Flint East (N | lorth Bethe | esda Cente | er) Sewe | r Main | | | 5.Agency: | W | SSC | | | Debt Service | |
| 4. Program: Sanitation 6 | Planning | g Area: | North | Bethesda | P.A. 30 | | | | | | | Total Costs | 3 13 |
| | | | | | | | | | | | | | |
| В. | | | - | re Sched | - | - | | 1 | | 1 | | F. Approval and Expenditure Data (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 | | (15) Year 4 FY '14 | (16) Year 5 FY '15 | (17) Year 6 FY '16 | (18) Beyond 6 Years | Date First in Capital Program | FY 06 |
| Planning, Design & Supervision | 211 | 116 | 75 | 20 | 18 | 2 | | | 1110 | 1110 | 0 Touro | Date First Approved | FY 06 |
| Land | | | | | | | | | | | | Initial Cost Estimate | 1,053 |
| Site Improvements & Utilities | | | | | | | | | | | | Cost Estimate Last FY | 1,180 |
| Construction | 1,664 | | 1,150 | 514 | 463 | 51 | | | | | | Present Cost Estimate | 2,139 |
| Other | 264 | | 184 | 80 | 72 | 8 | 3 | | | | | Approved Request, Last FY | 152 |
| Total | 2,139 | 116 | 1,409 | 614 | 553 | 61 | 1 | | | | | Total Expenditures & Encumbrances | 116 |
| C. | | | Funding | Schedul | e (000's) | | | | | | | Approval Request FY 11 | 553 |
| Contribution/Other | 2,139 | 116 | 1,409 | 614 | 553 | 61 | | | | | | | |
| D. Description & Justification | | | | | | | | | | | | Supplemental Approval Request | |
| This project provides for the plan and 580 feet of 18-inch diameter Service Area Rock Creek Drai JUSTIFICATION Cost Change Costs were increased based upo drains and other site specific cort STATUS Final Design (WSSC Contr OTHER The project scope has remained depending on site specific condit supported debt will be used for th COORDINATION Montgomery County Department Department of Environmental Pri NOTE This project supports 1009 | on higher of nage Basi on higher of nditions. ract No. D. the same tions and of nis project of Public otection, O | ent/relief s n cost estima A3079C01 . Expenditu design con Works and | ates to tu l,). ures sho nstraints. | serve the ity 1.4 to unnel unde wn in Bloo The estir ortation, N | North Bet 4.5 MGD er CSX Ra ck B are p nated con | hesda C iilroad a lanning npletion ry Coun | Popula Popula nd accomr level estim date is de | ation 2,60 modate ex nates only veloper do | 60 xisting util r, and may ependent | ities, stori v change No WSS | n | Land Status: Developer Depender 3. Project Completion Date: Developer Depender 1. Map Map Reference Code: 1. Map Reference Code: 1. Map Map Reference Code: 1. Map Refer | STICKER STORES |

| | | | 2. Dat | e: Octol | oer 1, 200 | 9 | I. FIE FD | F Pg.No.: | o. Req. | Adeq. Pu | ub. Fac. | E. Annual Operating Budget Impact (000's) | FY of Impact |
|--|--|---|---|---|---|---|---|---|---|--|---|--|--------------|
| 1. Project Number Agency Number | Update | Code | | | , | - [| | | | | | Program Costs Staff | |
| 983854 S-201.00 | Change | | Revis | ed: | | L | | | | | J | Other Facility Costs Maintenance | |
| 3. Project Name: Land & Rights-of-W | ay Acqui | sition - Mo | ontgomery | / County | | : | 5.Agency: | : W: | SSC | | | Debt Service | |
| 4. Program: Sanitation 6. | . Planning | g Area: | Montg | omery Co | ounty | | | | | | | Total Costs 3 Impact on Water or Sewer Rate 3 | 7 12 |
| B | | E | xpenditu | re Sched | ule (000's | 5) | | | | | | F. Approval and Expenditure Data (000's) | |
| | (8) | (9) Thru | (10) Estimoto | (11) Totol | (12) Voor 1 | (13) Xaar 2 | (14) Voor 2 | (15) | (16) Xoor 5 | (17) Year 6 | (18) Revend | | |
| Cost Elements | Total | Thru FY '09 | Estimate FY '10 | Total 6 Years | Year 1 FY '11 | Year 2 FY '12 | Year 3 FY '13 | Year 4 FY '14 | Year 5 FY '15 | FY '16 | Beyond 6 Years | Date First in Capital Program | FY 98 |
| Planning, Design & Supervision | | | | | | | | | | | | Date First Approved | FY 98 |
| Land | 320 | | 300 | 20 | 10 | 10 | | | | | | Initial Cost Estimate | |
| Site Improvements & Utilities | | | | | | | | | | | | Cost Estimate Last FY | 369 |
| Construction | | | | | | | | | | | | Present Cost Estimate | |
| Other | 49 | | 45 | 4 | 2 | 2 | | | | | | Approved Request, Last FY | 12 |
| Total | 369 | | 345 | 24 | 12 | 12 | | | | | | | 12 |
| | | | | | | | | | | | | Total Expenditures & Encumbrances | |
| С. | | | Funding | Schedul | e (000's) | | 1 | | | 1 | | Approval Request FY 11 | 12 |
| WSSC Bonds | 345 | | 345 | | | | | | | | | Supplemental Approval Request | |
| Contribution/Other | 24 | | | 24 | 12 | 12 | | | | | | Current FY (10) | |
| This PDF provides a consolidated new projects, as needed. Expenditionse specific projects. These consultations are determined realignments required by other ageneric by a specific bata Consolidation of expenditures for permits the WSSC to respond to the restriction, especially for DSP project of unpredictable delays for extending requirements for approved project WSSC an equitable negotiation permits by Various Stages of Planning OTHER The project scope has remained the negotiations. When purchases are description form elsewhere in this NOTE This project supports 7% Given the section of the supports 7% Given the supports 7% Given the supports 7% Given the support of the supports 7% Given the support of | ditures and osts do no d by the W gencies, of land and the uncer ojects, whi ded comm ts due to osition by & Desigr the same re complet s program | e program ot include VSSC and or requiren rights-of- rtainty of p ich depen nunity out minor alig y avoiding n . The expen- ete, the ac | are base purchase: d are base ments iden way acqu project-sp id upon ac reach whi project-s project-s project-s | ed upon a s which h d upon fa ntified with isitions pr ecific imp ctions of t ch impact pecific co shown in will be dis | Inticipated ave alread acility plann nin the De ovides fle: lementatic he Applica is the timin entified lat st displays Block B a splayed in | I schedul dy been of velopme xibility in on sched ant. Othe ng of a p e in the o s prior to | es and ar completed rts, alignn int Service expendin ules. This er conside lanned pu design ph contactin | nent studi es Proces g funds in s format c erations in urchase, u ase, and t g property and may o | es, field s s (DSP). a specific hange allo clude the nanticipat the need t y owners. | urveys, c fiscal ye eviates th accomme ed rights o assure | ear and his odation -of-way the n actual | Land Status: Land & R/W to be an % Project Completion: Not Applicable Est. Completion Date: Not applicable H. Map Map Reference Code: | quirea |

PROJECTS PENDING CLOSE-OUT Montgomery County Sewer Projects (costs in thousands)

| Project Number | Agency Number | Project Name | Estimated Total Cost | Expenditures Thru FY'09 | Estimated Expenditures FY'10 | Remarks |
|-------------------|------------------|----------------------------------|----------------------------|-------------------------------|------------------------------------|--------------------|
| 973820 | S-49.15 | Rock Creek Wastewater Facilities | \$5,839 | \$5,839 | \$0 | Project completed. |
| | | TOTALS | \$5,839 | \$5,839 | \$0 | |

Section 3 - Bi-County Water Projects

DATE: October 1, 2009

FINANCIAL SUMMARY

(ALL FIGURES IN THOUSANDS)

BI-COUNTY WATER PROJECTS

| AGENCY | PROJECT | EST. | EXPEND | EST. | TOTAL | | EX | PENDITUR | E SCHEDU | LE | | BUDGET | PDF |
|----------|---|---------------|------------|--------------|--------------|------------|------------|------------|------------|------------|------------|---------------|-------------|
| NUMBER | NAME | TOTAL COST | THRU 09 | EXPEND 10 | SIX YEARS | YR 1 11 | YR 2 12 | YR 3 13 | YR 4 14 | YR 5 15 | YR 6 16 | REQUEST 11 | PAGE NUM |
| W-73.16 | Potomac WFP Improvements | 131,401 | 107,717 | 21,154 | 2,530 | 2,530 | 0 | 0 | 0 | 0 | 0 | 2,530 | 3-4 |
| W-73.18 | Power Reliability and Arc Flash Studies | 3,709 | 83 | 889 | 2,737 | 1,718 | 1,019 | 0 | 0 | 0 | 0 | 1,718 | 3-5 |
| W-73.19 | Potomac WFP Outdoor Substation No. 2 Replacement | 7,934 | 0 | 0 | 7,934 | 132 | 460 | 3,628 | 2,432 | 1,282 | 0 | 132 | 3-6 |
| W-73.20 | Potomac WFP Stage 2 Disinfection Byproducts Rule Implementation | 7,959 | 20 | 808 | 7,131 | 4,531 | 2,600 | 0 | 0 | 0 | 0 | 4,531 | 3-7 |
| W-73.30 | Potomac WFP Submerged Channel Intake | 25,209 | 1,776 | 0 | 23,433 | 616 | 1,540 | 1,793 | 6,886 | 9,650 | 2,948 | 616 | 3-8 |
| W-127.01 | Bi-County Water Tunnel | 168,971 | 13,696 | 38,895 | 116,380 | 42,306 | 41,121 | 28,822 | 4,131 | 0 | 0 | 42,306 | 3-10 |
| W-139.02 | Duckett & Brighton Dam Upgrades | 27,029 | 1,471 | 858 | 24,700 | 10,292 | 12,350 | 2,058 | 0 | 0 | 0 | 10,292 | 3-13 |
| W-161.01 | Large Diameter Pipe Rehabilitation Program | 60,000 | 0 | 0 | 60,000 | 5,000 | 7,000 | 9,000 | 11,000 | 13,000 | 15,000 | 5,000 | 3-14 |
| W-172.05 | Patuxent WFP Phase II Expansion | 32,673 | 2,433 | 880 | 29,360 | 8,063 | 13,451 | 7,846 | 0 | 0 | 0 | 8,063 | 3-17 |
| W-172.07 | Patuxent Raw Water Pipeline | 21,371 | 6,248 | 0 | 15,123 | 990 | 7,212 | 6,921 | 0 | 0 | 0 | 990 | 3-18 |
| W-172.08 | Rocky Gorge Pump Station Upgrade | 15,621 | 2,011 | 1,010 | 12,600 | 301 | 6,177 | 5,775 | 347 | 0 | 0 | 301 | 3-20 |
| W-202.00 | Land & Rights-of-Way Acquisition - Bi-County | 100 | 0 | 45 | 55 | 0 | 55 | 0 | 0 | 0 | 0 | 0 | 3-21 |
| | TOTAL BI-COUNTY WATER PROJECTS | 501,977 | 135,455 | 64,539 | 301,983 | 76,479 | 92,985 | 65,843 | 24,796 | 23,932 | 17,948 | 76,479 | |

Bi-County Water Projects New Projects Listing (costs in thousands)

| Agency Number | Project Name | Total Project Cost | Budget Year Cost | Page Number |
|------------------|---|--------------------------|------------------------|----------------|
| W-73.19 | Potomac WFP Outdoor Substation No. 2 Replacements | \$7,934 | \$132 | 3-6 |
| W-73.20 | Potomac WFP Stage 2 Disinfection Byproducts Rule Implementation | 7,959 | 4,531 | 3-7 |
| W-161.01 | Large Diameter Pipe Rehabilitation Program | 60,000 | 5,000 | 3-14 |
| | TOTALS | \$75,893 | \$9,663 | |

POTOMAC WATER FILTRATION PLANT PROJECTS (costs in thousands)

| PROJECT NUMBER | PROJECT NAME | ADOPTED FY'10 TOTAL COST | ADOPTED FY'11 TOTAL COST | CHANGE \$ | CHANGE % | SIX-YEAR COST | COMPLETION DATE (est) |
|-------------------|--|-----------------------------|-----------------------------|--------------|-------------|------------------|--------------------------|
| W-73.16 | Potomac WFP Improvements | \$132,628 | \$131,401 | (\$1,227) | -0.9% | \$2,530 | MAY 2010 |
| W-73.19 | Potomac WFP Outdoor Substation No. 2 Replacement | new | 7,934 | 7,934 | | 7,934 | FY 2015 |
| $VV - I \le I(1)$ | Potomac WFP Stage 2 Disinfection Byproducts Rule Implementation | new | 7,959 | 7,959 | | 7,131 | APRIL 2012 |
| W-73.30 | Potomac WFP Submerged Channel Intake | 24,536 | 25,209 | 673 | 2.7% | 23,433 | FY 2016 |
| | TOTALS | \$157,164 | \$172,503 | \$15,339 | 9.8% | \$41,028 | |

<u>Summary</u>: This group of projects represents operational improvements to the Potomac Water Filtration Plant (WFP) in Montgomery County. The Potomac WFP Improvements project (W-73.16) consolidates several operational improvement projects including rapid mix/flow splitting modifications, pumping station upgrades, ultraviolet (UV) disinfection facilities, electrical substation upgrades and/or replacements, a new backwash pumping station, and new lime feed facilities. The Potomac WFP Outdoor Substation No. 2 Replacement provides for the design and construction for replacement of the Outdoor Substation No. 2 (OSS-2) at the Potomac Water Filtration Plant due to the fact that it is over 30 years old and contains 5kV switchgear that houses air magnetic breakers which are obsolete. The Potomac WFP Stage 2 Disinfection Byproducts Rule Implementation project (W-73.20) provides for the facilities necessary to meet the EPA Stage 2 Disinfection Byproducts Rule. The Potomac WFP Submerged Channel Intake project (W-73.30) will provide an additional barrier against drinking water contamination, enhance reliability, and reduce treatment costs by drawing water from a location with a cleaner, more stable water quality.

<u>Cost Impact</u>: Costs for Project W-73.16 decreased, reflecting actual expenditures as contingencies and allowances for change orders have not materialized. Project W-73.30 costs increased to reflect inflation. Projects W-73.19 and W-73.20 were added as new projects.

| A. Identification and Coding Infor | mation | | 2. Da | te: Octo | ber 1, 200 |)9 | 7. Pre PD | F Pg.No.: | 8. Req. | Adeq. Pub. Fac. | E. Annual Operating Budget Impact (00 | DO'S) FY of Impact |
|--|--------------|----------------|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|---------------------------------|--|--------------------|
| 1. Project Number Agency Number | - | | | | , | - | | | | | Program Costs Staff | |
| 033811 W-73.16 | Change | 9 | Revis | sea: | | | | | | | Other Other Facility Costs Maintenance | |
| 3. Project Name: Potomac WFP In | nprovemen | ts | | | | | 5.Agency: | W | SSC | | Debt Service | 7980 12 |
| 4. Program: Sanitation | 6. Plannin | ig Area: | Bi-Co | ounty | | | | | | | Total Costs | 7980 12 |
| | | | | | | | | | | | Impact on Water or Sewer Rate | 16¢ 12 |
| В. | | E | Expenditu | ure Sched | lule (000': | s) | | | | | F. Approval and Expenditure Data (000 | l's) |
| | (8) | (9) Than | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) (18) | | , |
| Cost Elements | Total | Thru FY '09 | Estimate FY '10 | Total 6 Years | Year 1 FY '11 | Year 2 FY '12 | Year 3 FY '13 | Year 4 FY '14 | Year 5 FY '15 | Year 6 Beyond FY '16 6 Years | Date First in Capital Program | FY 04 |
| Planning, Design & Supervision | 24,081 | 21,610 | 2,171 | 300 | 300 | | | | | | Date First Approved | FY 03 |
| Land | | | | | | | | | | | Initial Cost Estimate | 70,247 |
| Site Improvements & Utilities | | | | | | | | | | | Cost Estimate Last FY | 132,628 |
| Construction | 105,167 | 86,107 | 17,060 | 2,000 | 2,000 | | | | | | Present Cost Estimate | 131,401 |
| Other | 2,153 | | 1,923 | 230 | 230 | | | | | | Approved Request, Last FY | 21,738 |
| Total | 131,401 | 107,717 | 21,154 | 2,530 | 2,530 | | | | | | Total Expenditures & Encumbrances | 107,717 |
| C. | | | Funding | g Schedul | o (000's) | | | | | | Approval Request FY 11 | 2,530 |
| U. WSSC Bonds | 90,667 | 74,325 | 14,596 | 1,746 | 1,746 | | | | | | | 2,000 |
| SDC | 40,734 | | 6,558 | 784 | 784 | | | | | | Supplemental Approval Request Current FY (10) | |
| | -10,7 0 1 | 00,002 | 0,000 | 704 | 704 | | | | | | | |
| D. Description & Justification | | | | | | | | | | | G. Status Information | |
| DESCRIPTION | | | | | | | | | | | Land Status: Not applicable | |
| This project provides for improv construction of rapid mix/flow s | | | | | | | | | | | % Project Completion: C-75% | |
| a new backwash pumping stati | | | | | | | | | | | Est. Completion Date: May 2010 | |
| method. Outdoor Substation N | los. 1 and 4 | 4 were coi | | | | | | | | | H. Map Map Reference Code: | |
| switchgear in the Finished Wat | | g Station. | | | | | | | | | n. Map Map Reference Code. | |
| Service Area Bi-County Area | l | | | | | | | | | | | |
| JUSTIFICATION Plans & Studies | | | | | | | | | | | | |
| WSSC Memorandum by Timo | thy D Hirre | April 25 | 5 2001· "T | Technical I | Memoran | dum No | 2 " O'Brie | n & Gere | Engineer | s Inc | | |
| (November, 2001); "Potomac V | | | | | | | | | | | | |
| Design Development Report (A | | | | | | | | | | Schuh & | | |
| Jernigan, Inc. (January, 2004); | 5 KV Switc | ingear Imp | orovemen | ts Design | Developn | nent Rep | oort (Janua | ary, 2004). | | | | |
| Specific Data These projects are part of the p | rogrom of | improvem | onto noo | dad to roli | ably produ | 100 272 | | | and 219 | MCD in the | | |
| winter in order to meet the Apri | | | | | | | | | | | MAP NOT AVAILABL | .E |
| sedimentation processes may l | be needed | in the futu | ure to incr | ease the t | otal plant | capacity | to meet p | orojected d | lemands. | | | |
| Cost Change | | | | | | | | | | | | |
| Not Applicable | | | | | | | | | | | | |
| STATUS Under Construction (WSS | SC Contrac | t Nos. BF | 2028D97 | , BF2028 | H97). | | | | | | | |
| <u>OTHER</u> | | | | | | | | | | | | |
| The project scope has remaine by May 2010. Funding shown | | | | | | | | | ial comple | etion is expected | | |
| COORDINATION | | | | | | | | | | | | |
| Montgomery County Governme | ent, Prince | George's | County G | overnmen | it, Montgo | mery Co | ounty Depa | artment of | Environm | nental Protection, | | |
| Maryland Department of the Er Environmental Resources and | | | | | | | | | | | | |
| NOTE This project supports 319 | % Growth, 4 | 49% Syste | em Impro | vement ar | nd 20% Er | nvironme | ental Regu | lation. | | | | |

| A. Identification and Coding Inform | nation | 2. Da | te: Octo | ber 1, 200 | 9 7 | 7. Pre PD | F Pg.No.: | 8. Req. | Adeq. Pu | ıb. Fac. | E. Annual Operating Budget Impact (00 | 0's) FY of Impact |
|---|---------------------------------|---------------------|------------------|-----------------|----------------------|--------------------------|---------------------------|------------------------|--------------------------|----------------|--|-------------------|
| 1. Project Number Agency Number | Update Code | | | | | | | | | | Program Costs Staff | |
| 033805 W-73.18 | Change | | eu. | | | | | | | | Other Facility Costs Maintenance | |
| 3. Project Name: Power Reliability a | ind Arc Flash St | tudies | | | 5 | 5.Agency: | WS | SC | | | Debt Service | 922 13 |
| 4. Program: Sanitation | Planning Area | a: Bi-Co | unty | | | | | | | | Total Costs Impact on Water or Sewer Rate | 922 13 |
| | | | | | | | | | | | | 2¢ 13 |
| В. | (0) (0) | Expenditu | | | | (1.0) | (45) | (10) | (47) | (10) | F. Approval and Expenditure Data (000' | s) |
| | (8) (9) Thr | ru Estimate | (11) Total | (12) Year 1 | (13) Year 2 | (14) Year 3 | (15) Year 4 | (16) Year 5 | (17) Year 6 | (18) Beyond | Date First in Capital Program | FY 04 |
| Cost Elements Planning, Design & Supervision | Total FY ' | 09 FY '10 83 773 | 6 Years 2,380 | FY '11 1,494 | FY '12 886 | FY '13 | FY '14 | FY '15 | FY '16 | 6 Years | Date First Approved | FY 03 |
| Land | 0,200 | | 2,000 | 1,101 | | | | | | | Initial Cost Estimate | 11,991 |
| Site Improvements & Utilities | | | | | | | | | | | Cost Estimate Last FY | 3,610 |
| Construction | | | | | | | | | | | Present Cost Estimate | 3,709 |
| Other | 473 | 116 | 357 | 224 | 133 | | | | | | Approved Request, Last FY | 1,668 |
| Total | 3,709 | 83 889 | 2,737 | 1,718 | 1,019 | | | | | | Total Expenditures & Encumbrances | 83 |
| С. | | Funding | Schedu | e (000's) | | | | | | | Approval Request FY 11 | 1,718 |
| WSSC Bonds | 3,709 | 83 889 | 2,737 | 1,718 | 1,019 | | | | | | Supplemental Approval Request | |
| D. Description & Justification | | | | | | I | 1 | | I | I | Current FY (10) | |
| This project provides for a comp water treatment & distribution sy project also provides for an arc f Service Area Bi-County Area JUSTIFICATION | stem and waste | ewater treatm | ent & colle | ection syst | | | | | | | G. Status Information Land Status: No land or R/W % Project Completion: P-0% Est. Completion Date: June 2012 | ' required |
| Plans & Studies "Draft Chapter III - Needs Asses house Study (April 2002); WSSC | | | | | | | gineers Ind | c. (Nover | nber 2001 | l); In- | H. Map Map Reference Code: | |
| The cost estimate has been incr | reased to reflect | t inflation. | | | | | | | | | | |
| STATUS Planning (WSSC Contract | No. BM4620A0 | 07,). | | | | | | | | | | |
| OTHER The project scope has remained be split out into new, separate p | | | | ts identifie | ed throug | h the mod | deling and | analysis | processes | s may | MAP NOT AVAILABL | E |
| COORDINATION | | | | | | | | | | | | |
| Montgomery County Governmer Potomac Electric Power Compa County Department of Environm | ny, Washington | Gas Light Co | ompany, N | laryland D | mery Cou Departme | unty Depa nt of the I | artment of I Environme | Environm nt, Prince | iental Pro e George's | tection, s | | |
| NOTE This project supports 1009 | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

| A. Identification and Coding Information | 2. | Date: Octo | ber 1. 200 |)9 7 | 7. Pre PD | F Pg.No.: | 8. Req. | Adeq. Pub. Fac. | E. Annual Operating Budget Impact (000 | 'S) FY of Impact |
|---|-----------------------------|----------------|------------------|------------------|------------------|------------------|------------------|---------------------------------|--|------------------|
| 1. Project Number Agency Number Updat | e Code | | , | | | | | | Program Costs Staff | |
| 113802 W-73.19 Add | Re | vised: | | <u> </u> | | | | | Other Other Facility Costs Maintenance | |
| 3. Project Name: Potomac WFP Outdoor Su | bstation No. 2 Re | placement | | 5 | 5.Agency: | W | SSC | | Debt Service | 692 16 |
| 4. Program: Sanitation 6. Planni | ng Area: Bi- | County | | | | | | | Total Costs | 692 16 |
| | | | | | | | | | Impact on Water or Sewer Rate | 1¢ 16 |
| В. | Expend | liture Sched | lule (000': | s) | | | | | F. Approval and Expenditure Data (000's | ;) |
| (8) | (9) (10) Thru Estimo | | (12) | (13) | (14) | (15) | (16) | (17) (18) | | |
| Cost Elements Total | Thru Estima FY '09 FY '1 | | Year 1 FY '11 | Year 2 FY '12 | Year 3 FY '13 | Year 4 FY '14 | Year 5 FY '15 | Year 6 Beyond FY '16 6 Years | Date First in Capital Program | FY 11 |
| Planning, Design & Supervision 900 |) | 900 | 115 | 400 | 155 | 115 | 115 | | Date First Approved | FY 11 |
| Land | | | | | | | | | Initial Cost Estimate | 7,934 |
| Site Improvements & Utilities | | | | | | | | | Cost Estimate Last FY | |
| Construction 6,000 |) | 6,000 | | | 3,000 | 2,000 | 1,000 | | Present Cost Estimate | 7,934 |
| Other 1,034 | 1 | 1,034 | 17 | 60 | 473 | 317 | 167 | | Approved Request, Last FY | |
| Total 7,934 | 1 | 7,934 | 132 | 460 | 3,628 | 2,432 | 1,282 | | Total Expenditures & Encumbrances | |
| | Eund | ing Schedu | | | | - | | | Approval Request FY 11 | 132 |
| C. WSSC Bonds 7,934 | | 7,934 | e (000 S) 132 | 460 | 3,628 | 2,432 | 1,282 | | | 152 |
| | | 7,004 | 102 | 400 | 3,020 | 2,402 | 1,202 | | Supplemental Approval Request | |
| D. Description & Justification | | | | | | | | | Current FY (10) | |
| DESCRIPTION | | | | | | | | | G. Status Information | |
| This project provides for the planning, de | | | | | | | | | | |
| Potomac Water Filtration Plant. OSS-2 | s over 30 years o | ld and contai | ns 5kV sv | witchgear | that hous | es air ma | gnetic bre | eakers which are | Land Status: Public/Agency o | wned land |
| obsolete. | | | | | | | | | % Project Completion: P-0% | |
| | | | | | | | | | Est. Completion Date: FY 2015 | |
| JUSTIFICATION Plans & Studies | | | | | | | | | H. Map Map Reference Code: | |
| Energy Performance Project, Phase ID, | Energy Systems (| Group (ESG) | Raw Wa | ter Pump | Testing | performed | on April | 18, 2009 and | | |
| subsequent site visits and meetings at P | | | | | | | | | | |
| consultants to ESG). | · | | | | | | | , | | |
| Specific Data | | | | | | | | | | |
| Phase ID - Energy Performance Project | | | | | | | | | | |
| planning of equipment and operations up | | | | | | | | | | |
| pumps at the Potomac Raw Water Pump inspections of OSS-2 serving RWPS #1 | | | | | | | | | | |
| condition, unsafe, and that WSSC should | | | | | | | | | | |
| to replace 5 kV switchgear between 25 a | | | | | | | | | | |
| OSS-2 have misalignment problems, and | | | | | | | | | | |
| mechanical maintenance staff as well as | | | | | | | the manu | facturer is no | | |
| longer in business which makes it difficu | t, costly and requ | ires long lead | a times to | obtain re | placemer | it parts. | | | | |
| Cost Change Not applicable. | | | | | | | | | | |
| | | | | | | | | | | |
| STATUS Planning | | | | | | | | | | |
| OTHER The project scope was developed for the | | haa a tatal | araiaat aa | ot of \$7.0 | 24.000 | - vo op ditu | ro and aal | hadula | | |
| projections shown in Block B above are | | | | | | | | | | |
| COORDINATION | | | | | 2 3 | | ., | into abolgin | | |
| WSSC Projects A-103.00, Energy Perfor | mance Program a | and W-73 16 | Potomac | WFP Im | nroveme | nts | | | | |
| NOTE This project supports 100% System | - | | , | | Provenier | | | | | |
| | | | | | | | | | | |

| A. Identification and Coding Inform | mation | | 2 Da | te: Octo | ber 1. 200 |)9 | 7. Pre PD | F Pg.No.: | 8. Req. | Adeq. Pu | ub. Fac. | E. Annual Operating Budget Impact (000's) FY of I | npact |
|--|-------------------------|------------------------|---------------------------|---------------|----------------|----------------------|----------------------|----------------|------------------------|--------------------------|----------------|--|-------|
| 1. Project Number Agency Number | Update (| Code | | | | Γ | | | | | | Program Costs Staff | |
| 113806 W-73.20 | Add | | Revis | ed: | | L | | | 1 | | | Other Facility Costs Maintenance | |
| 3. Project Name: Potomac WFP Sta | age 2 Disin | fection B | yproducts | Rule Imp | lementati | on t | 5.Agency | W | SSC | | | Debt Service | 13 |
| 4. Program: Sanitation | 6. Planning | g Area: | Bi-Co | ounty | | | | | | | | Total Costs | 13 |
| | | | | | | | | | | | | Impact on Water or Sewer Rate 1¢ | 13 |
| В. | | E | Expenditu | ire Scheo | lule (000' | s) | | | | - | | F. Approval and Expenditure Data (000's) | |
| | (8) | (9) Thru | (10) Estimate | (11) Total | (12) Year 1 | (13) Year 2 | (14) Year 3 | (15) Year 4 | (16) Year 5 | (17) Year 6 | (18) Beyond | | |
| Cost Elements | Total | FY '09 | FY '10 | 6 Years | FY '11 | FY '12 | FY '13 | FY '14 | FY '15 | FY '16 | 6 Years | | ′ 11 |
| Planning, Design & Supervision | 870 | 20 | 650 | 200 | 140 | 60 | | | | | | | ' 11 |
| Land | | | | | | | | | | | | Initial Cost Estimate 7,9 | 59 |
| Site Improvements & Utilities | | | | | | | | | | | | Cost Estimate Last FY | |
| Construction | 6,053 | | 53 | 6,000 | 3,800 | 2,200 | | | | | | Present Cost Estimate 7,9 | 59 |
| Other | 1,036 | | 105 | 931 | 591 | 340 | | | | | | Approved Request, Last FY | |
| Total | 7,959 | 20 | 808 | 7,131 | 4,531 | 2,600 | | | | | | Total Expenditures & Encumbrances | 20 |
| C. | | | Funding | g Schedu | le (000's) | | | | | | | Approval Request FY 11 4,5 | 31 |
| WSSC Bonds | 7,959 | 20 | 808 | 7,131 | 4,531 | 2,600 | | | | | | Supplemental Approval Request | |
| D. Description & Justification | | | | | | | | | | | | Current FY (10) | |
| DESCRIPTION | | | | | | | | | | | | | |
| This project provides for the des | sign, upgrad | de and ex | pansion | of the exis | ting sulfu | ric acid sy | ystem an | d the desig | n and co | nstructior | n of new | G. Status Information | |
| ferric chloride and caustic soda | | | | | | | iding low | pH coagu | lation at | the plant of | design | Land Status: Public/Agency owned land | |
| capacity of 285 MGD in order to Service Area Bi-County Area | meet the t | EPA Slag | je z Disin | тесцоп Бу | products | Rule. | | | | | | % Project Completion: D-0% Est. Completion Date: April 2012 | |
| JUSTIFICATION | | | | | | | | | | | | | |
| Plans & Studies | | | | | | | | | | | | H. Map Map Reference Code: | |
| Stage 2 Disinfection Byproducts | Rule Com | pliance S | Strategy S | tudies (N | ovember 2 | 2008) | | | | | | | |
| Specific Data | | | | | | , | | | | | | | |
| The sulfuric acid system upgrad | | | | | | | | | | | | | |
| comply with the EPA Stage 2 Di water alkalinity when ferric chlor | | | | | | | | da teed sy | stem will | suppleme | ent raw | | |
| Cost Change | | - | | - | | | | | | | | | |
| Not applicable. | | | | | | | | | | | | MAP NOT AVAILABLE | |
| STATUS Preliminary Design (WSS | C Contract | Nos. BF | 5024A09 | , BF5027 | A09). | | | | | | | | |
| OTHER | | | | | | | | | | | | | |
| The project scope was develope | | | | | | | | | | | | | |
| projections shown in Block B ab Funding shown in FY 2009 and | ove are Or FY 2010 w | der of Ma as previo | agnitude e Juslv inclu | estimates | and are e | xpected t s W-708 | o change 40 Potor | as the pro | oject mov Ferric Ch | es into de loride Fee | əsign. Əd | | |
| System and W-708.41, Potoma | | | | | n projoot | | 10,1 0101 | | | | | | |
| COORDINATION | | | | | | | | | | | | | |
| Montgomery County Departmer Department of Environmental R | | | | | | | | | | | | | |
| WFP Improvements. | | | | | | | | | | -, | | | |
| NOTE This project supports 100 | % Environn | nental Re | egulation. | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

| A. Identification and Coding Inform | mation | | 2. Da | te: Octo | ber 1, 200 | 9 | 7. Pre PDI | F Pg.No.: | 8. Req. | Adeq. Pu | b. Fac. | E. Annual Operating Budget Impact (00 | O's) FY of Im | npact |
|---|--|---|---|---|--|--|---|--|---|---|--|---|---------------|----------|
| 1. Project Number Agency Number | Update | Code | | | , | | | | | | | Program Costs Staff | | |
| 033812 W-73.30 | Change | | Revis | ea: | | Ľ | | | | | | Other Facility Costs Maintenance | | |
| 3. Project Name: Potomac WFP Su | ubmerged (| Channel Ir | ntake | | | : | 5.Agency: | W | SSC | | | Debt Service | 2198 | 17 |
| 4. Program: Sanitation | 6. Planning | g Area: | Bi-Co | ounty | | | | | | | | Total Costs Impact on Water or Sewer Rate | 2198 4¢ | 17 17 |
| В. | | E | xpenditu | ire Sched | lule (000's | 5) | | | | | | F. Approval and Expenditure Data (000 | 's) | |
| | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) | (18) | | • | |
| Cost Elements | Total | Thru FY '09 | Estimate FY '10 | Total 6 Years | Year 1 FY '11 | Year 2 FY '12 | Year 3 FY '13 | Year 4 FY '14 | Year 5 FY '15 | Year 6 FY '16 | Beyond 6 Years | Date First in Capital Program | FY | 04 |
| Planning, Design & Supervision | 5,205 | 1,776 | | 3,429 | 560 | 1,400 | | 309 | 80 | 30 | | Date First Approved | FY | 03 |
| Land | | | | | | | | | | | | Initial Cost Estimate | 93 | 36 |
| Site Improvements & Utilities | | | | | | | | | | | | Cost Estimate Last FY | 24,53 | 36 |
| Construction | 17,874 | | | 17,874 | | | 580 | 5,951 | 8,693 | 2,650 | | Present Cost Estimate | 25,20 | 09 |
| Other | 2,130 | | | 2,130 | 56 | 140 | 163 | 626 | 877 | 268 | | Approved Request, Last FY | | |
| Total | 25,209 | 1,776 | | 23,433 | 616 | 1,540 | 1,793 | 6,886 | 9,650 | 2,948 | | Total Expenditures & Encumbrances | 1,77 | 76 |
| С. | | | Funding | g Schedu | le (000's) | | | | | | . <u> </u> | Approval Request FY 11 | 61 | 16 |
| WSSC Bonds | 25,209 | 1,776 | | 23,433 | 616 | 1,540 | 1,793 | 6,886 | 9,650 | 2,948 | | Supplemental Approval Request | | |
| D. Description & Justification | | | | | • · | | | | | | | Current FY (10) | | |
| This project includes planning, v submerged channel intake to pr Cryptosporidium oocysts), as w more stable water quality. Service Area Bi-County Area JUSTIFICATION Plans & Studies "Technical Memorandum No. 2 Water Assessment Study," Mar Engineers, Inc. (September, 20) Specific Data The project is expected to pay fr cleaner raw water source. It als vegetation blocking the existing Cost Change Costs were increased for inflation STATUS Planning (WSSC Contract OTHER The project scope has remained series of briefings with State leg prior to commencement of furth environmental community mem participation program. Expenditi completion of preliminary design must approve continuing with th completion date was deferred in | vovide an a ell as to en Water Qua yland Depa 02). or itself ove so provides bank witho on. t No. BF20 d the same gislators, Ci er enginee bers, and t tures show n, a more r te project b | dditional I hance rel ality Need artment of for a moo drawal. T 28F97,). As part ounty Cou ring work. he genera n in Block geliable es before des | oarriér ag iability an s Assess f the Envi ased upor re reliable his project of the pla uncil men al public v s B are pla timate ca ign and c | ainst drink d reduce ment," O'f ronment (. the reduce supply by the supply by the supp | king water treatment Brien & Ge April, 2002 ced chemii y eliminatii stent with t ase of this unty Execu is underwa aged in ar el estimat e. Both Co n may pro | contamin costs by ere Engin 2); "Potor cal and s ng the cu the indus project, the indus project, ay, elected o on-goin on soin on soin buncils w buced. D | nation (pai drawing v neers, Inc. mac WFP solids hand urrent prob stry's recor significant f and Cour ed officials ig informat and may in rill review t | (Novemb Facility P dling costs lems ass mmended outreach hty Counc , county g tion, outre crease or he results getary cor | er, 2001); lan," O'Br s resulting ociated wi multiple l activities sil staff wil governmer ach and p decrease of the de | sts and n with cle "Draft Sc ien & Ger from the chith ice and parrier ap will occur I be unde nt staffs, project 2. Upon tailed stu | aner, burce re d proach. r. A rtaken dy and | G. Status Information Land Status: Right-of-Way r % Project Completion: P-80% Est. Completion Date: FY 2016 H. Map Map Reference Code: MAP NOT AVAILABL | E | |
| | | | | | | | | | | | | | | |

Agency Number: W - 73.30 Project Name: Potomac WFP Submerged Channel Intake

COORDINATION

Montgomery County Government, Prince George's County Government, National Park Service, Montgomery County Department of Environmental Protection, Maryland Department of the Environment, Prince George's County Department of Environmental Resources and U.S. Army Corps of Engineers.

NOTE This project supports 100% System Improvement.

| A. Identification and Coding Inform | nation | | 2. Da | te: Octo | ber 1, 200 |)9 | 7. Pre PD | F Pg.No.: | 8. Req. Adeq. P | ub. Fac. | E. Annual Operating Budget Impact (000 | s) FY of Impact |
|---|-------------|-------------|------------------|-----------------------|----------------|----------------|----------------|----------------|----------------------------|----------------|--|-----------------|
| 1. Project Number Agency Number | Update | Code | | | , | | | | | | Program Costs Staff | |
| 934855 W-127.01 | Change |) | Revis | ea: | | | | | | | Other Facility Costs Maintenance | 329 15 |
| 3. Project Name: Bi-County Water T | unnel | | | | | : | 5.Agency: | WS | SSC | | Debt Service | 61 15 |
| 4. Program: Sanitation | 6. Plannin | g Area: | Bi-Co | ounty | | | | | | | Total Costs | 390 15 |
| | | | | | | | | | | | Impact on Water or Sewer Rate | |
| В. | 1 | E | xpenditu | ire Sched | ule (000' | s) | 1 | | | - | F. Approval and Expenditure Data (000's) | |
| | (8) | (9) Thru | (10) Estimate | (11) Total | (12) Year 1 | (13) Year 2 | (14) Year 3 | (15) Year 4 | (16) (17) Year 5 Year 6 | (18) Beyond | Date First in Capital Program | FY 93 |
| Cost Elements | Total | FY '09 | FY '10 | 6 Years | FY '11 | FY '12 | FY '13 | FY '14 | FY '15 FY '16 | 6 Years | | |
| Planning, Design & Supervision | 26,618 | 13,696 | 3,359 | 9,563 | 3,460 | 3,383 | 2,202 | 518 | | | Date First Approved | FY 93 |
| Land | | | | | | | | | | | Initial Cost Estimate | 63,000 |
| Site Improvements & Utilities | | | | | | | | | | | Cost Estimate Last FY | 168,775 |
| Construction | 128,237 | | 32,000 | 96,237 | 35,000 | 34,000 | 24,000 | 3,237 | | | Present Cost Estimate | 168,971 |
| Other | 14,116 | | 3,536 | 10,580 | 3,846 | 3,738 | 2,620 | 376 | | | Approved Request, Last FY | 40,403 |
| Total | 168,971 | 13,696 | 38,895 | 116,380 | 42,306 | 41,121 | 28,822 | 4,131 | | | Total Expenditures & Encumbrances | 13,696 |
| C. | * | | Funding | g Schedul | e (000's) | | | | | | Approval Request FY 11 | 42,306 |
| WSSC Bonds | 700 | | | 700 | | 400 | 300 | | | | Supplemental Approval Request | |
| SDC | 168,271 | 13,696 | 38,895 | 115,680 | 42,306 | 40,721 | 28,522 | 4,131 | | | Current FY (10) | |
| D. Description & Justification | 1 | | | | | | L | L L | | L. | | |
| DESCRIPTION | | | | | | | | | | | G. Status Information | |
| This project provides for the des | ign and co | onstructior | n of appro | ximately 2 | 28,400 fee | et of 84-ir | nch diame | ter water i | main between the | | Land Status: Site selected | |
| intersection of Tuckerman Lane | and Route | e I-270 an | d the wes | stern termi | nus of the | e Bi-Cour | nty Water | Tunnel ne | ar the area where | | % Project Completion: C-0% | |
| Creek crosses the Capital Beltw environmental impacts. The pro | | | | | | | | | | | Est. Completion Date: June 2013 | |
| connection between this pipeline | | | | | xisting 90 | | | | |) | H. Map Map Reference Code: | |
| Service Area Montgomery Ma | in Pressur | re Zone H | G495, Pri | ince Geor | ge's High | Pressure | Zone HG | 450 | | | | |
| JUSTIFICATION | | | | | | | | | | | | |
| Plans & Studies | | | | | | | | | | | | |
| Montgomery and Prince George | | | | | | | | | | | | |
| (Draft), Louis Berger & Associate Alignment Report, Black and Ve | | | | emand Pro | ojections (| dated Ap | oril 6, 2001 |); and the | General Plan. Fi | nal | | |
| Specific Data | aton, mor | (00.), 200 | 0). | | | | | | | | SEE ATTACHED MAP | |
| This project will significantly incr | ease trans | smission o | capacity f | rom the P | otomac W | ater Filtr | ation Plan | t to the M | ontgomery County | / Main | | |
| Zone and Prince George's Coun | | | | | | recomm | ended tha | t the wate | r main be construe | cted as | | |
| a pipeline with a deep rock tunne | ei from 90 | to 250 fee | et delow t | ne ground | i surrace. | | | | | | | |
| Cost Change The cost increase reflects current | nt design | constructi | ion mana | nement ar | nd constru | iction cor | ntract amo | unts | | | | |
| STATUS Final Design (WSSC Cont | - | | | - | | | indot anne | unto. | | | | |
| OTHER | 1401 1403.1 | DEUUTZA | J4, DL00 | 7200 4 , D | 2007200 | | | | | | | |
| The project scope remains the s | ame Exp | penditures | shown ir | Block B a | ahove are | definitive | and are t | he sum o | f the design servic | es | | |
| construction management service | | | | | | | | | | | | |
| alignment study and agreed upo | | | | | | | | tion of the | tunnel is expecte | d in | | |
| June 2013. Funding shown in F | T 14 IS TOP | punch-lis | a items ai | iu site/ian | uscaping | restoratio | ווכ. | | | | | |
| As part of the permit requirement | | | | | | | | | | | | |
| Old Farm Creek. This work will b relining of 450 feet of existing 96 | | | | | | | | | | | | |
| to SDC funding. | | ., count | | οι ψι 00,0 | | ig tracket | | oopalate (| | Jubject | | |

D. DESCRIPTION & JUSTIFICATION (CONT.)

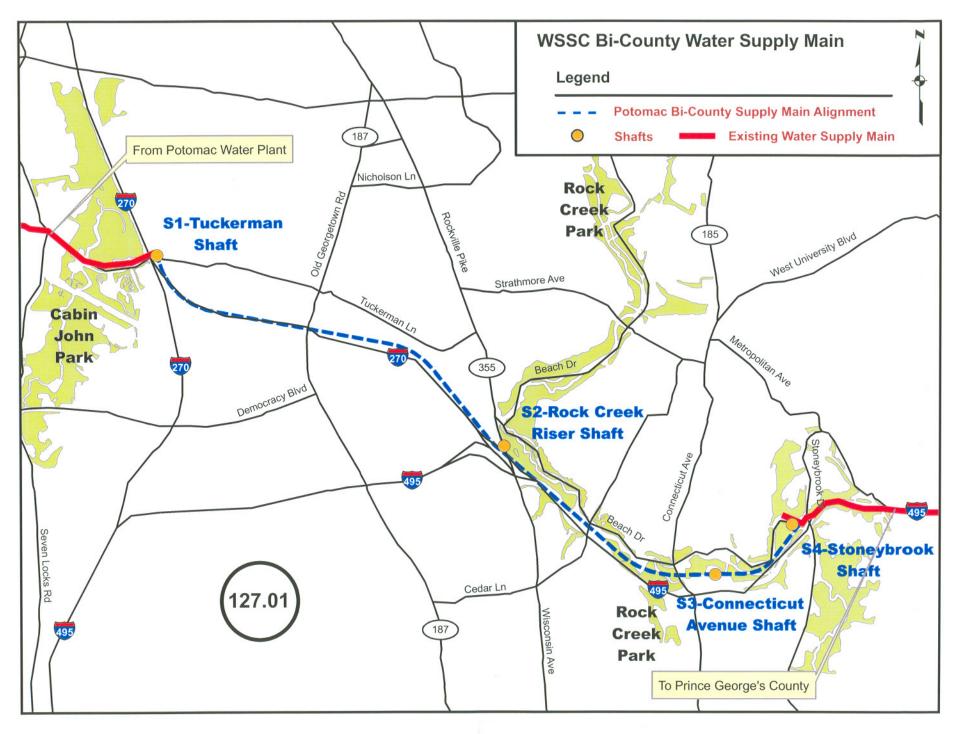
Agency Number: W - 127.01

Project Name: Bi-County Water Tunnel

COORDINATION

Montgomery County Government, Prince George's County Government, Maryland-National Capital Park & Planning Commission (Mandatory Referral submissions are approved), Maryland Department of Natural Resources and Maryland State Department of Transportation.

NOTE This project supports 99% Growth and 1% System Improvement.



| 2. Date: October 1, 2009 | | | npact | | | | | | | | | | |
|--|-------------|-------------|------------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---|------------|
| 1. Project Number Agency Number | | | Revis | | | | | | | | | Program Costs Staff | |
| 073802 W-139.02 | Change | | Revis | eu. | | | | | | | | Other | |
| 3. Project Name: Duckett & Brighton | n Dam Upg | grades | | | | 5 | 5.Agency: | W | SSC | | | Debt Service 2373 | 14 |
| 4. Program: Sanitation | 6. Planning | g Area: | Bi-Co | ounty | | | | | | | | Total Costs 2373 | 14 |
| | | | | | | | | | | | | Impact on Water or Sewer Rate 5¢ | 14 |
| В. | | E | Expenditu | ire Sched | lule (000': | s) | | 1 | | 1 | | F. Approval and Expenditure Data (000's) | |
| | (8) | (9) Thru | (10) Estimate | (11) Total | (12) Year 1 | (13) Year 2 | (14) Year 3 | (15) Year 4 | (16) Year 5 | (17) Year 6 | (18) Beyond | Date First in Capital Program | 07 |
| Cost Elements | Total | FY '09 | FY '10 | 6 Years | FY '11 | FY '12 | FY '13 | FY '14 | FY '15 | FY '16 | 6 Years | | |
| Planning, Design & Supervision | 3,487 | 1,471 | 780 | 1,236 | 515 | 618 | 103 | | | | | Date First Approved FY | |
| Land | | | | | | | | | | | | | 75 |
| Site Improvements & Utilities | | | | | | | | | | | | Cost Estimate Last FY 26,16 | <u>3</u> 5 |
| Construction | 21,218 | | | 21,218 | 8,841 | 10,609 | 1,768 | | | | | Present Cost Estimate 27,02 | 29 |
| Other | 2,324 | | 78 | 2,246 | 936 | 1,123 | 187 | | | | | Approved Request, Last FY 66 | 31 |
| Total | 27,029 | 1,471 | 858 | 24,700 | 10,292 | 12,350 | 2,058 | | | | | Total Expenditures & Encumbrances 1,47 | 71 |
| C . | 1 1 | | Funding | g Schedu | le (000's) | | | 1 | | 1 | 1 | Approval Request FY 11 10,29 |)2 |
| WSSC Bonds | 27,029 | 1,471 | | | 10,292 | 12,350 | 2,058 | | | | | | |
| D. Description & Justification | | | 1 | | | | | | | | | Supplemental Approval Request Current FY (10) | |
| DESCRIPTION | | | | | | | | | | | | | |
| This project provides for the plan | nina desi | ion and co | onstructio | n of the s | elected alt | ternative | for the no | tential un | arades re | nuired to | enable | G. Status Information | |
| the T. Howard Duckett Dam to n | | | | | | | | | | | | Land Status: Not determined | |
| ability to safely pass the Probab | | | | | | | | ble eartho | quake loa | dings. Th | his | % Project Completion: D-10% | |
| project also includes improveme | ents to the | Brighton | Dam to a | ssure con | tinued saf | e operatio | on. | | | | | Est. Completion Date: FY 2013 | |
| JUSTIFICATION | | | | | | | | | | | | H. Map Map Reference Code: | |
| Plans & Studies | | | | | | | | | | | | | |
| December 13, 2004 letter from N | MDE; "Con | nprehensi | ive Safety | v Evaluatio | on of the T | . Howard | Duckett | Dam", UF | S Corpor | ation (Jai | nuary, | | |
| 2007); June 28, 2007 letter from | MDE. | | | | | | | | | | | | |
| Specific Data | | | | | | _ | | | | | | | |
| The MDE requested that WSSC Probable Maximum Flood criteria | | | | | | | | | | | | | |
| maximum credible earthquake lo | | | | | | | | | | minstand | line | | |
| Cost Change | - | - | - | | | | | | | | | | |
| Costs were increased due to add | ditional de | sign work | required | at Brighto | on Dam. | | | | | | | MAP NOT AVAILABLE | |
| STATUS Preliminary Design (WSSC | C Contract | No. BD4 | 144A05,) |). | | | | | | | | | |
| OTHER | | | | | | | | | | | | | |
| The project scope has remained | | | | | | | | | | | | | |
| the engineering consultant of the | | | | | | | | | | | | | |
| dam to safely pass the PMF and concurred with the recommende | | | | | | | | | | | | | |
| 30% design stage. | | | | | | 20 00 00 | opoulioit | | | | .9 | | |
| COORDINATION | | | | | | | | | | | | | |
| Maryland State Highway Admini | | | | | | | | | nent, How | ard Cour | nty | | |
| Government, City of Laurel, Mar NOTE This project supports 1009 | | | | ironment a | and U.S. A | Army Cor | ps or Eng | meers. | | | | | |
| NOTE This project supports 100% | /o System | mproven | nent. | | | | | | | | | | |
| | | | | | | | | | | | | | |

| A. Identification and Coding Information | per 1, 200 | 9 7 | . Pre PDF | Pg.No.: | 8. Req. | Adeq. Pu | ub. Fac. | E. Annual Operating Budget Impact (000 | FY of Impact | | |
|---|------------------|----------------------------|----------------|----------------|----------------|----------------|----------------|--|----------------|---|---------|
| 1. Project Number Agency Number Upda | e Code | | , | | | | | | | Program Costs Staff | |
| 113803 W-161.01 Add | | Revised: | | | | | · | | | Other Facility Costs Maintenance | |
| 3. Project Name: Large Diameter Pipe Reh | abilitation Prog | ram | | 5 | Agency: | W | SSC | | | Debt Service | 1264 17 |
| 4. Program: Sanitation 6. Plann | ing Area: | Bi-County | | | | | | | | Total Costs | 1264 17 |
| | | | | | | | | | | Impact on Water or Sewer Rate | 2¢ 17 |
| В. | Expe | enditure Sched | ule (000's | 5) | | | | 1 | 1 | F. Approval and Expenditure Data (000's | 5) |
| (8) | | (10) (11) stimate Total | (12) Year 1 | (13) Year 2 | (14) Year 3 | (15) Year 4 | (16) Year 5 | (17) Year 6 | (18) Beyond | Date First in Capital Program | FY 11 |
| Cost Elements Total | FY '09 F | Y '10 6 Years | FY '11 | FY '12 | FY '13 | FY '14 | FY '15 | FY '16 | 6 Years | Date First Approved | FY 11 |
| Planning, Design & Supervision 13,15 | 0 | 13,150 | 2,804 | 1,803 | 1,922 | 1,925 | 2,180 | 2,516 | | | |
| Land | | | | | | | | | | Initial Cost Estimate | 60,000 |
| Site Improvements & Utilities | | | | | | | | | | Cost Estimate Last FY | |
| Construction 40,85 | 0 | 40,850 | 1,696 | 4,497 | 6,178 | 7,975 | 9,520 | 10,984 | | Present Cost Estimate | 60,000 |
| Other 6,00 | 0 | 6,000 | 500 | 700 | 900 | 1,100 | 1,300 | 1,500 | | Approved Request, Last FY | |
| Total 60,00 | 0 | 60,000 | 5,000 | 7,000 | 9,000 | 11,000 | 13,000 | 15,000 | | Total Expenditures & Encumbrances | |
| C . | Fu | unding Schedul | e (000's) | | | | | | | Approval Request FY 11 | 5,000 |
| WSSC Bonds 60,00 | 0 | 60,000 | 5,000 | 7,000 | 9,000 | 11,000 | 13,000 | 15,000 | | Supplemental Approval Request | |
| D. Description & Justification | | | | | | | | | | Current FY (10) | |
| DESCRIPTION | | | | | | | | | | | |
| The purpose of this program is to plan, of | lesion and reha | abilitate or replac | e Large F |)iameter \ | Nater Tra | ansmissio | n Mains tl | hat have | reached | G. Status Information | |
| the end of their useful life. Condition As | | | | | | | | | | Land Status: Not Applicable | |
| cast iron, and steel, to identify areas rec | uiring replacem | nent or rehabilita | tion. The | PCCP In: | spection | and Cond | lition Asse | essment | | % Project Completion: On-Going | |
| Program identifies individual pipe sectio | | | | | | | | | | Est. Completion Date: On-going | |
| pipeline. The Program also identifies m deterioration that are most cost effective | | | | | | | | | | | |
| entire pipeline. Rehabilitation or replace | | | | | | | | | | H. Map Map Reference Code: | |
| failure and ensuring a safe and reliable | | | | | | | | | | | |
| in order to accomplish these goals. | 11,5 | 0 | | | | | | 0 1 | | | |
| * EXPENDITURES FOR LARGE DIAME | | | ARE EXP | ECTED T | | | FINITE | v | | | |
| | | | | LOILD I | 0.00111 | | | | | | |
| JUSTIFICATION | | | | | | | | | | | |
| Plans & Studies | | | | | | | | | | | |
| Utility Wide Master Plan, (December 20 | 07); 30 Year Inf | frastructure Plan | (2007). | | | | | | | | |
| Specific Data | | | | | | | | | | | |
| WSSC has approximately 960 miles of I | | | | | | | | | | | |
| of cast iron, 225 miles of ductile iron, 35 performed annually on specific PCCP pi | | | | | | | | | | | |
| than 54-inch or larger. The inspection | | | | | | | | | | | |
| establish the condition of each pipe sec | | | | | | | | | sting to | | |
| Cost Change | | | | | | | | | | | |
| Not applicable. | | | | | | | | | | | |
| STATUS Not Applicable (WSSC Contract N | os. BM5063A0 | 9, BM5063B09) | | | | | | | | | |
| <u>OTHER</u> | | | | | | | | | | | |
| The project scope was developed for the | | | | | | | | | - | | |
| projections shown in Block B above are inspections and condition assessments. | | | | | | | | | | | |
| the Operating Budget. | | | | | ening and | . Sinoigoi | .cy ropun | | | | |
| | | | | | | | | | | | |

D. DESCRIPTION & JUSTIFICATION (CONT.)

Agency Number: W - 161.01 Project Name: Large Diameter Pipe Rehabilitation Program

COORDINATION

Maryland State Highway Administration, Montgomery County Department of Public Works and Transportation, Montgomery County Government (including localities where work is to be performed), Prince George's County Government (including localities where work is to be performed), Prince George's County Department of Public Works & Transportation, Local Community Civic Associations and WSSC Projects A-107.00, Pressure Reducing Valve Rehabilitation Program and W-1.00, Water Reconstruction Program.

NOTE This project supports 100% System Improvement.

PATUXENT WATER FILTRATION PLANT PROJECTS (costs in thousands)

| PROJECT NUMBER | PROJECT NAME | ADOPTED FY'10 TOTAL COST | ADOPTED FY'11 TOTAL COST | CHANGE \$ | CHANGE % | SIX-YEAR COST | COMPLETION DATE (est) |
|-------------------|----------------------------------|-----------------------------|-----------------------------|--------------|-------------|------------------|--------------------------|
| W-172.05 | Patuxent WFP Phase II Expansion | \$31,813 | \$32,673 | \$860 | 2.7% | \$29,360 | FY 2013 |
| W-172.07 | Patuxent Raw Water Pipeline | 16,015 | 21,371 | 5,356 | 33.4% | 15,123 | FY 2013 |
| W-172.08 | Rocky Gorge Pump Station Upgrade | 14,902 | 15,621 | 719 | 4.8% | 12,600 | JULY 2013 |
| | TOTALS | \$62,730 | \$69,665 | \$6,935 | 11.1% | \$57,083 | |

<u>Summary</u>: The Patuxent Water Filtration Plant (WFP) Phase II Expansion project (W-172.05) provides for the addition of a sixth treatment train, a new electrical substation, upgrades to existing yard piping, upgrades to chemical facilities, new UV disinfection facilities, an upgrade to the existing potassium permanganate feed system, and upgrades to the existing sewer system to handle residuals from the plant. In conjunction with the WFP Phase II Expansion project, the Patuxent Raw Water Pipeline project (W-172.07) and the Rocky Gorge Pump Station Upgrade project (W-172.08) provide for a new raw water pipeline and the necessary modification/expansion of the Rocky Gorge Pump Station to allow the station to deliver up to 110 million gallons per day (MGD) of raw water to the Patuxent WFP, respectively.

<u>Cost Impact</u>: Costs for Project W-172.05 increased to reflect inflation. Costs for Project W-172.07 increased due to the addition of gate valves and blow-off and air relief valves to the Pipeline Cleaning Contract. Costs for Project W-172.08 increased to cover the cost of a turbine upgrade.

| A. Identification and Coding Inform | nation | | 2. Da | te: Octol | ber 1, 200 |)9 | 7. Pre PD | F Pg.No.: | 8. Req. | Adeq. Pu | ıb. Fac. | E. Annual Operating Budget Impact (00 | DO'S) FY of Impact |
|---|---------------|-------------|------------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--|--------------------|
| 1. Project Number Agency Number | Update | Code | | | | | | | | | | Program Costs Staff | |
| 033807 W-172.05 | Change | | Revis | eu. | | _ | | | | | | Other Other Facility Costs Maintenance | |
| 3. Project Name: Patuxent WFP Pha | ase II Expa | ansion | | | | Ę | 5.Agency: | WS | SC | | | Debt Service | 2774 13 |
| 4. Program: Sanitation | 6. Planning | g Area: | Bi-Co | unty | | | | | | | | Total Costs Impact on Water or Sewer Rate | 2774 13 |
| | | | | | | | | | | | | | 5¢ 13 |
| В. | | E | | re Sched | | s) | 1 | | | 1 | | F. Approval and Expenditure Data (000 | l's) |
| | (8) | (9) Thru | (10) Estimate | (11) Total | (12) Year 1 | (13) Year 2 | (14) Year 3 | (15) Year 4 | (16) Year 5 | (17) Year 6 | (18) Beyond | Date First in Capital Program | FY 04 |
| Cost Elements | Total | FY '09 | FY '10 | 6 Years | FY '11 | FY '12 | FY '13 | FY '14 | FY '15 | FY '16 | 6 Years | Date First Approved | FY 03 |
| Planning, Design & Supervision | 4,658 | 2,433 | 800 | 1,425 | 527 | 567 | 331 | | | | | | |
| Land | | | | | | | | | | | | Initial Cost Estimate | 33,002 |
| Site Improvements & Utilities | | | | | | | | | | | | Cost Estimate Last FY | 31,813 |
| Construction | 25,266 | | | 25,266 | 6,803 | 11,661 | 6,802 | | | | | Present Cost Estimate | 32,673 |
| Other | 2,749 | | 80 | 2,669 | 733 | 1,223 | 713 | | | | | Approved Request, Last FY | 770 |
| Total | 32,673 | 2,433 | 880 | 29,360 | 8,063 | 13,451 | 7,846 | | | | | Total Expenditures & Encumbrances | 2,433 |
| C. | | | Funding | Schedul | e (000's) | | | | | | | Approval Request FY 11 | 8,063 |
| WSSC Bonds | 32,673 | 2,433 | 880 | 29,360 | 8,063 | 13,451 | 7,846 | | | | | Supplemental Approval Request | |
| D. Description & Justification | | | | | | | | | | | | Current FY (10) | |
| DESCRIPTION | | | | | | | | | | | | | |
| This project provides for the add | lition of a s | sixth treat | ment trair | , a new el | lectrical s | ubstation | , upgrade | s to existin | g yard pi | iping, upg | rades | G. Status Information | |
| to chemical facilities and new UV | | | | | ' | 0 | 10 | | 01 | | | Land Status: No land or R/V | V required |
| permanganate feed system at the | ne Patuxen | nt Pretreat | tment Fac | ility and u | pgrades t | to the exis | sting sewe | er system a | t Sweitz | er Lane to | 0 | % Project Completion: D-60% | |
| handle residuals from the plant. Service Area Bi-County Area | | | | | | | Car | bacity 72 | | minal/11(| | Est. Completion Date: FY 2013 | |
| Service Area Drobully Area | | | | | | | Ca | - | ergency | | | H. Map Map Reference Code: | |
| JUSTIFICATION | | | | | | | | | | | | | |
| Plans & Studies | | | | | | | | | | | | | |
| Patuxent WFP Facility Plan (Apr | ril, 1997); I | n-House | Study (Ap | oril, 2002); | Patuxent | t Expansio | on Design | Criteria R | eport (Ap | oril 2005) | | | |
| Specific Data | | | | | | | | | | | | | |
| Phase II will add a sixth treatme | | | | | | | | | | | | | |
| solids removal and plate settlers from Rocky Gorge Raw Water P | | | | | | | | | | | | | |
| 172.08) will provide a firm raw w | | | | | | | | | | | | | |
| nominal capacity of 72 MGD, with | | | | | | | | | | | in | | _ |
| order to comply with upcoming E | EPA regula | ations for | Cryptospo | Shalum tre | alment a | nu Stage | 2 Disinie | лоп Бурго | | ule. | | MAP NOT AVAILABL | .⊏ |
| Costs were increased for inflatio | on. | | | | | | | | | | | | |
| STATUS Preliminary Design (WSS0 | | No. BF1 | 582H91.) | | | | | | | | | | |
| OTHER | | | ,, | | | | | | | | | | |
| The project scope has remained | the same | . In the e | vent of ar | n outage a | t the Pote | omac WF | P, additio | nal capacit | y at the | Patuxent | WFP | | |
| will reduce customer impact. H this project. Expenditure estima | lowever, er | mergency | conserva | ation meas | sures will | still be re | quired. N | /SSC will s | eek fede | eral fundir | | | |
| COORDINATION | | | | | | | | | | | | | |
| Montgomery County Governmer Maryland Department of the Env 172.08, Rocky Gorge Pump Sta | vironment, | Baltimore | e Gas & E | lectric and | WSŚC | Projects V | N-172.07, | Patuxent | Raw Wa | ter Pipelir | ne, W- | | |
| NOTE This project supports 28% | | | | | • | | | (Sectomat | | . entona | ,- | | |
| | | | | | | 0 | | | | | | | |

| A. Identification and Coding Inform | nation | | 2. Da | te: Octo | ber 1, 200 | 9 7 | 7. Pre PDI | F Pg.No.: | 8. Req. | Adeq. Pu | ub. Fac. | E. Annual Operating Budget Impact (0 | 00's) FY of Impact |
|---|---------------|-------------|------------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--|--------------------|
| 1. Project Number Agency Number | Update | Code | | | | | | | | | | Program Costs Staff | |
| 063804 W-172.07 | Change | | Revis | ea: | | | | | | | | Other Facility Costs Maintenance | |
| 3. Project Name: Patuxent Raw Wat | ter Pipeline | Э | | | | Ę | 5.Agency: | WS | SSC | | | Debt Service | 1397 |
| 4. Program: Sanitation 6 | 6. Planning | g Area: | Bi-Co | ounty | | | | | | | | Total Costs | 1525 |
| | | | | | | | | | | | | Impact on Water or Sewer Rate | 3¢ 14 |
| В. | | E | - | ire Sched | ule (000': | s) | I | I | | 1 | | F. Approval and Expenditure Data (000 |)'s) |
| | (8) | (9) Thru | (10) Estimate | (11) Total | (12) Year 1 | (13) Year 2 | (14) Year 3 | (15) Year 4 | (16) Year 5 | (17) Year 6 | (18) Beyond | Date First in Capital Program | FY 06 |
| Cost Elements | Total | FY '09 | FY '10 | 6 Years | FY '11 | FY '12 | FY '13 | FY '14 | FY '15 | FY '16 | 6 Years | · • | |
| Planning, Design & Supervision | 3,817 | 2,399 | | 1,418 | 900 | 243 | 275 | | | | | Date First Approved | FY 03 |
| Land | | | | | | | | | | | | Initial Cost Estimate | 18,750 |
| Site Improvements & Utilities | | | | | | | | | | | | Cost Estimate Last FY | 16,015 |
| Construction | 16,179 | 3,849 | | 12,330 | | 6,313 | 6,017 | | | | | Present Cost Estimate | 21,371 |
| Other | 1,375 | | | 1,375 | 90 | 656 | 629 | | | | | Approved Request, Last FY | |
| Total | 21,371 | 6,248 | | 15,123 | 990 | 7,212 | 6,921 | | | | | Total Expenditures & Encumbrances | 6,248 |
| С. | | | Funding | Schedul | e (000's) | | | | | | | Approval Request FY 11 | 990 |
| WSSC Bonds | 21,371 | 6,248 | | 15,123 | 990 | 7,212 | 6,921 | | | | | | |
| D. Description & Justification | | | | | | | | | | | | Supplemental Approval Request Current FY (10) | |
| DESCRIPTION | | | | | | | | | | | | | |
| This project provides for commu | nity outroa | och nlanr | nina desir | an and co | etruction | of a new | 48-inch d | iameter o | r larger r | aw water | nineline | G. Status Information | |
| from the Rocky Gorge Raw Wate | er Pumpin | g Station | to the Pa | tuxent Wa | ater Filtrati | ion Plant, | cleaning | of the exis | sting wat | er lines ar | nd | Land Status: Land & R/W to | o be acquired |
| replacement of valves. | | 0 | | | | | 0 | | 0 | | | % Project Completion: D-0% | |
| | | | | | | | | | | | | Est. Completion Date: See Block D " | Other" |
| JUSTIFICATION | | | | | | | | | | | | H. Map Map Reference Code: | |
| Plans & Studies | | | | | | | | | | | | | |
| Patuxent WFP Facility Plan (Apr | ʻil 1997); Ir | n-House S | Study (Ap | ril 2002). | | | | | | | | | |
| Specific Data | ailitian ara | budroulia | | d to 70 M | | | munning o | t the Deel | Caraa | Dumping | | | |
| The existing raw water supply fac Station. In order to convey more | | | | | | | | | | | | | |
| Rocky Gorge Pumping Station to | the Patu | xent Plan | t and mod | dification/e | expansion | of the Ro | ocky Gorg | e Pumpin | g Station | will provid | de a | | |
| firm raw water pumping transmis | | | | | | | | | | e Patuxer | nt Water | | |
| Filtration Plant, will give the Plan Cost Change | it a linn no | minai ca | pacity of 7 | Z NGD, V | with an em | lergency | сарасну с | | D. | | | | |
| Costs have increased due to the | addition | of six date | a valves a | nd 24 blov | w-off and | air raliaf v | valves to t | ha Pinalin | e Cleanii | na Contra | act | | |
| STATUS Under Construction (WSS | | - | | | | | | | e oleanii | ig oontra | | MAP NOT AVAILABI | -E |
| OTHER | e contract | (1100) D1 | 1002001 | , DI 1002 | 201). | | | | | | | | |
| The project scope has remained | the same | . The Ro | ockv Gora | e Valve R | eplaceme | nt is com | plete. De | sian for cl | eaning th | ne existino | a raw | | |
| water pipelines is 100% complet | e. The ne | w raw wa | ater pipelir | ne portion | of the pro | ject is sti | ll under pl | anning rev | view with | construc | tion | | |
| deferred until FY'12. Expenditur | e estimate | es for the | pipeline p | ortion sho | wn in Blo | ck B abo | ve are pla | nning leve | el estimat | tes only a | ind may | | |
| change based upon the alignment valves and 24 blow-off and air re | | | | | | | | | | | | | |
| along with the necessary appurte | | | | | | | | | | | 02091 | | |
| Construction of the raw water pip | | | | | | | | | | | e | | |
| included in WSSC Project W-202 | 2.00. | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| · · | | | | | | | | | | | | | |

Agency Number: W - 172.07 Project Name: Patuxent Raw Water Pipeline

COORDINATION

Montgomery County Government, Prince George's County Government, Maryland-National Capital Park & Planning Commission, Maryland Department of the Environment, Interstate Commission on the Potomac River Basin, Local Community Civic Associations (West Laurel Civic Association), Baltimore Gas & Electric and WSSC Projects W-172.05, Patuxent WFP Phase II Expansion and W-172.08, Rocky Gorge Pump Station Upgrade.

NOTE This project supports 100% System Improvement.

| A. Identification and Coding Inform | nation | | 2. Da | te: Octo | ber 1, 200 | 9 | 7. Pre PDI | Pg.No.: | 8. Req. | Adeq. Pu | ub. Fac. | E. Annual Operating Budget Impact (0 | 00's) FY of Impact |
|---|--------------|---------------|------------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------------------------------|--------------------|
| 1. Project Number Agency Number | Update | Code | | | , | | | | | | | Program Costs Staff | |
| 063805 W-172.08 | Change | | Revis | ea: | | | | | | | | Other Facility Costs Maintenance | |
| 3. Project Name: Rocky Gorge Pum | p Station L | Jpgrade | | | | Ę | 5.Agency: | W | SSC | | | Debt Service | 1299 14 |
| 4. Program: Sanitation 6 | 6. Planning | g Area: | Bi-Co | unty | | | | | | | | Total Costs | 1299 14 |
| | | | | | | | | | | | | Impact on Water or Sewer Rate | 3¢ 14 |
| В. | 11 | E | xpenditu | ire Sched | lule (000's | s) | I | | | T. | 1 | F. Approval and Expenditure Data (000 |)'s) |
| | (8) | (9) Thru | (10) Estimate | (11) Total | (12) Year 1 | (13) Year 2 | (14) Year 3 | (15) Year 4 | (16) Year 5 | (17) Year 6 | (18) Beyond | Date First in Capital Program | FY 06 |
| Cost Elements | Total | FY '09 | FY '10 | 6 Years | FY '11 | FY '12 | FY '13 | FY '14 | FY '15 | FY '16 | 6 Years | | |
| Planning, Design & Supervision | 3,408 | 2,011 | 168 | 1,229 | 24 | 615 | 500 | 90 | | | | Date First Approved | FY 03 |
| Land | | | | | | | | | | | | Initial Cost Estimate | 12,930 |
| Site Improvements & Utilities | | | | | | | | | | | | Cost Estimate Last FY | 14,902 |
| Construction | 10,975 | | 750 | 10,225 | 250 | 5,000 | 4,750 | 225 | | | | Present Cost Estimate | 15,621 |
| Other | 1,238 | | 92 | 1,146 | 27 | 562 | 525 | 32 | | | | Approved Request, Last FY | 560 |
| Total | 15,621 | 2,011 | 1,010 | 12,600 | 301 | 6,177 | 5,775 | 347 | | | | Total Expenditures & Encumbrances | 2,011 |
| С. | | | Funding | schedul | e (000's) | | | | | | | Approval Request FY 11 | 301 |
| WSSC Bonds | 15,621 | 2,011 | 1,010 | 12,600 | 301 | 6,177 | 5,775 | 347 | | | | Supplemental Approval Request | |
| D. Description & Justification | | | | | | | | | | | | Current FY (10) | |
| DESCRIPTION | | | | | | | | | | | | | |
| This project provides for the mod | dification a | nd/or expa | ansion of | the Rock | v Gorae F | Pump Sta | tion to allo | w the sta | tion to pr | ovide up t | to | G. Status Information | |
| 110 MGD of raw water to the Par | tuxent Wat | ter Filtratio | on Plant. | | , , | • | | | · | | | Land Status: No land or R/ | V required |
| | | | | | | | | | | | | % Project Completion: D-100% | |
| | | | | | | | | | | | | Est. Completion Date: July 2013 | |
| Plans & Studies | | | tudy (Ap | ril 2002) | | | | | | | | H. Map Map Reference Code: | |
| Patuxent WFP Facility Plan (Apr Specific Data | ii 1997), ii | I-HOUSE S | tudy (Ap | 111 2002) | | | | | | | | | |
| The modification and expansion | of the Roc | kv Gorae | Raw Wa | iter Pumpi | ing Statior | n will prov | vide a firm | raw wate | r pumpin | n capacity | v of 110 | | |
| MGD. The improvements to the | pump stat | tion, along | with a fo | ourth wate | r pipeline | (W-172.0 | 07) and ex | pansion o | of the Pat | | | | |
| 172.05) will give the Patuxent Pla | ant a firm r | nominal ca | apacity o | f 72 MGD | , with eme | ergency c | apacity of | 110 MGE | Э. | | | | |
| Cost Change | | | | | | | | | | | | | |
| Cost estimates were increased t | | | | upgrade. | | | | | | | | | |
| STATUS Final Design (WSSC Contr | ract no. Bi | -1582G91 | ,). | | | | | | | | | | |
| OTHER The project scope remains the s | ame Evo | ondituro o | etimates | shown in | Block B a | bove are | a design le | val astim | ates and | may chan | | MAP NOT AVAILABI | -E |
| based upon actual bids. The pro | | dule has b | een dela | yed. The | current pl | | | | | | | | |
| following completion of the Princ | e George's | s side of tl | he Ducke | ett Dam up | ograde. | | | | | | | | |
| COORDINATION | | | | | | | | | | | | | |
| Maryland State Highway Adminis of the Environment, Baltimore G | as & Elect | ric and W | SSC Pro | jects W-1 | 39.02, Du | | | | | | | | |
| WFP Phase II Expansion and W | | | | er Pipeline | • | | | | | | | | |
| NOTE This project supports 100% | % System | Improvem | ent. | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

| A. Identification and Coding Inform | nation | | 2 Dat | te [.] Octo | ber 1, 200 | 9 | 7. Pre PD | F Pg.No.: | 8. Req. | Adeq. Pu | ub. Fac. | E. Annual Operating Budget Impact (000's) | of Impact |
|--|--|--|---|---|--|---|---|---|---|------------------------------------|-----------------------------|---|-----------|
| 1. Project Number Agency Number | Update | Code | | | | - | | | | | | Program Costs Staff | |
| 983857 W-202.00 | Change | 1 | Revis | ed: | | L | | | | | | Other | |
| 3. Project Name: Land & Rights-of-V | Vay Acqui | sition - Bi- | County | | | | 5.Agency | w | SSC | | | Debt Service 4 | 12 |
| 4. Program: Sanitation | 6. Planning | g Area: | Bi-Co | unty | | | | | | | | Total Costs | 12 |
| B . | | E | xpenditu | re Sched | lule (000's | 5) | | | | | | F. Approval and Expenditure Data (000's) | |
| | (8) | (9) Than | (10) | (11) Tatal | (12) | (13) | (14) | (15) | (16) | (17) | (18) | | |
| Cost Elements | Total | Thru FY '09 | Estimate FY '10 | Total 6 Years | Year 1 FY '11 | Year 2 FY '12 | Year 3 FY '13 | Year 4 FY '14 | Year 5 FY '15 | Year 6 FY '16 | Beyond 6 Years | Date First in Capital Program | FY 98 |
| Planning, Design & Supervision | | | | | | | | | | | | Date First Approved | FY 98 |
| Land | 91 | | 41 | 50 | | 50 | | | | | | Initial Cost Estimate | |
| Site Improvements & Utilities | | | | | | | | | | | | Cost Estimate Last FY | 320 |
| Construction | | | | | | | | | | | | Present Cost Estimate | 100 |
| Other | 9 | | 4 | 5 | | 5 | | | | | | Approved Request, Last FY | |
| Total | 100 | | 45 | 55 | | 55 | | | | | | Total Expenditures & Encumbrances | |
| | | | | | | | | | | | | | |
| С. | | | _ | | le (000's) | | - | 1 | 1 | 1 | 1 | Approval Request FY 11 | |
| WSSC Bonds | 100 | | 45 | 55 | | 55 | | | | | | Supplemental Approval Request | |
| DESCRIPTION This PDF provides a consolidate new projects, as needed. Experthose specific projects. These controls are specific projects. These controls are determine statements and the specific projects are determine realignments required by other and the specific provides and the specific projects. | nditures ar costs do no d by the W | e program ot include VSSC and | imed bas purchase I are base | ed upon a s which h ed upon fa | anticipated ave alread acility plan | schedu y been o | les and a completed | re required I. nent studi | l for the c es, field s | ompletior | | G. Status Information Land Status: Land & R/W to be acquired % Project Completion: Not Applicable Est. Completion Date: Not applicable H. Map Map Reference Code: | |
| Specific Data Consolidation of expenditures fo permits the WSSC to respond to restriction, especially for DSP pr of unpredictable delays for exter requirements for approved proje WSSC an equitable negotiation Cost Change Not Applicable | o the uncer ojects, wh nded comn cts due to | rtainty of p ich depen nunity outi minor alig | project-sp d upon ac reach whi inment ch | ecific imp ctions of t ch impac nanges ide | lementatic he Applica ts the timir entified lat | n sched int. Othing of a p e in the | lules. Thi er conside planned pu design ph | s format c erations in urchase, u ase, and t | hange all clude the nanticipat he need t | eviates th accomm ted rights | nis Iodation I-of-way | | |
| STATUS Various Stages of Planning | a & Desiar | n | | | | | | | | | | | |
| OTHER The project scope has remained negotiations. When purchases a description form elsewhere in this NOTE This project supports 100% | the same are comple is program | e. The expe ete, the ac n. | tual cost | | | | | | | | | | |

Section 4 - Bi-County Sewer Projects

DATE: October 1, 2009 REVISED: May 13, 2010

FINANCIAL SUMMARY

(ALL FIGURES IN THOUSANDS)

BI-COUNTY SEWER PROJECTS

| AGENCY | PROJECT | EST. | EXPEND | EST. | TOTAL | | EXF | PENDITUR | E SCHEDL | JLE | | BUDGET | PDF |
|----------|--|-----------|---------|--------|-----------|---------|---------|----------|----------|---------|--------|---------|------|
| NUMBER | NAME | TOTAL | THRU | EXPEND | SIX | YR 1 | YR 2 | YR 3 | YR 4 | YR 5 | YR 6 | REQUEST | PAGE |
| | | COST | 09 | 10 | YEARS | 11 | 12 | 13 | 14 | 15 | 16 | 11 | NUM |
| S-22.06 | Blue Plains WWTP: Liquid Train Projects, Part 2 | 240,383 | 207,641 | 6,567 | 21,454 | 2,834 | 5,806 | 6,356 | 1,636 | 1,635 | 3,187 | 2,834 | 4-4 |
| S-22.07 | Blue Plains WWTP: Biosolids Management, Part 2 | 360,331 | 98,622 | 13,217 | 245,749 | 38,980 | 103,141 | 60,170 | 34,920 | 2,912 | 5,626 | 38,980 | 4-5 |
| S-22.08 | Blue Plains WWTP: Biological Nutrient Removal | 81,051 | 43,949 | 13,155 | 23,947 | 7,506 | 12,001 | 4,440 | 0 | 0 | 0 | 7,506 | 4-6 |
| S-22.09 | Blue Plains WWTP: Plant-wide Projects | 179,915 | 130,059 | 8,170 | 38,379 | 9,784 | 7,884 | 6,376 | 8,078 | 5,307 | 950 | 9,784 | 4-7 |
| S-22.10 | Blue Plains WWTP: Enhanced Nutrient Removal | 432,673 | 1,587 | 10,898 | 349,083 | 34,982 | 80,548 | 95,285 | 46,569 | 40,274 | 51,425 | 34,982 | 4-8 |
| S-22.11 | Blue Plains: Pipelines & Appurtenances | 102,833 | 7,639 | 18,410 | 63,208 | 9,331 | 6,282 | 17,408 | 14,148 | 8,411 | 7,628 | 9,331 | 4-9 |
| S-89.22 | Anacostia Storage Facility | 36,971 | 1,153 | 1,667 | 34,151 | 6,006 | 11,352 | 12,140 | 4,653 | 0 | 0 | 6,006 | 4-10 |
| S-89.23 | Anacostia No. 2 Screenings Handling System | 2,196 | 3 | 676 | 1,517 | 1,436 | 81 | 0 | 0 | 0 | 0 | 1,436 | 4-12 |
| S-170.06 | Sewer Basin Planning Program | 4,832 | 252 | 920 | 3,660 | 1,220 | 1,220 | 1,220 | 0 | 0 | 0 | 1,220 | 4-13 |
| S-170.07 | Wastewater Pumping Station Capacity Evaluation | 223 | 39 | 122 | 62 | 62 | 0 | 0 | 0 | 0 | 0 | 62 | 4-14 |
| S-170.08 | Septage Discharge Facility Planning & Implementation | 10,972 | 522 | 440 | 10,010 | 330 | 6,413 | 3,267 | 0 | 0 | 0 | 330 | 4-15 |
| S-170.09 | Trunk Sewer Reconstruction Program | 504,993 | 0 | 16,673 | 488,320 | 39,079 | 148,013 | 145,153 | 84,634 | 59,373 | 12,068 | 39,079 | 4-16 |
| | TOTAL BI-COUNTY SEWER PROJECTS | 1,957,373 | 491,466 | 90,915 | 1,279,540 | 151,550 | 382,741 | 351,815 | 194,638 | 117,912 | 80,884 | 151,550 | |

Notes for costs beyond six years:

Includes 4,721 for Project S-22.06, Blue Plains WWTP: Liquid Train Projects, Part 2 Includes 2,743 for Project S-22.07, Blue Plains WWTP: Biosolids Management, Part 2 Includes 3,307 for Project S-22.09, Blue Plains WWTP: Plant-wide Projects Includes 71,105 for Project S-22.10, Blue Plains WWTP: Enhanced Nutrient Removal Includes 13,576 for Project S-22.11, Blue Plains: Pipelines & Appurtenances

Bi-County Sewer Projects New Projects Listing (costs in thousands)

| Agency Number | Project Name | Total Project Cost | Budget Year Cost | Page Number |
|------------------|------------------------------------|--------------------------|------------------------|----------------|
| S-170.09 | Trunk Sewer Reconstruction Program | \$504,993 | \$39,079 | 4-16 |
| | TOTALS | 504,993 | 39,079 | |

BLUE PLAINS WASTEWATER TREATMENT PLANT PROJECTS (costs in thousands)

| PROJECT NUMBER | PROJECT NAME | ADOPTED FY'10 TOTAL COST | ADOPTED FY'11 TOTAL COST | CHANGE \$ | CHANGE % | SIX-YEAR COST | COMPLETION DATE (est) |
|-------------------|---|-----------------------------|-----------------------------|--------------|-------------|------------------|--------------------------|
| S-22.06 | Blue Plains WWTP: Liquid Train Projects, Part 2 | \$224,120 | \$240,383 | \$16,263 | 7.3% | \$21,454 | On-Going |
| S-22.07 | Blue Plains WWTP: Biosolids Management, Part 2 | 310,198 | 360,331 | 50,133 | 16.2% | 245,749 | On-Going |
| S-22.08 | Blue Plains WWTP: Biological Nutrient Removal | 89,115 | 81,051 | (8,064) | -9.0% | 23,947 | FY 2014 |
| S-22.09 | Blue Plains WWTP: Plant-wide Projects | 197,842 | 179,915 | (17,927) | -9.1% | 38,379 | On-Going |
| S-22.10 | Blue Plains WWTP: Enhanced Nutrient Removal | 290,352 | 432,673 | 142,321 | 49.0% | 349,083 | FY 2019 |
| S-22.11 | Blue Plains: Pipelines & Appurtenances | split | 102,833 | 102,833 | | 63,208 | On-Going |
| | TOTALS | \$1,111,627 | \$1,397,186 | \$285,559 | 25.7% | \$741,820 | |

<u>Summary</u>: These six projects, with an estimated total cost of \$1.4 billion, provide funding for the upgrade, expansion, and enhancement of wastewater treatment and solids handling facilities at the Regional Blue Plains Wastewater Treatment Plant, located in the District of Columbia. Whereas typical WSSC projects encompass planning, design, construction, and start-up for a single project, with defined starting and ending dates, the Blue Plains projects are comprised of many sub-projects and are "open-ended." As the Blue Plains Facility Plans moves forward and new sub-projects are approved, the costs of these new sub-projects are added to the appropriate existing Blue Plains project. The expenditures displayed represent the WSSC's calculated share. There are three main funding divisions: liquid treatment train (S-22.06); biosolids management (S-22.07); and plant-wide projects (S-22.09). Project S-22.08 adds Biological Nutrient Removal (BNR) facilities to the plant. Project S-22.10 Enhanced Nutrient Removal (ENR) will achieve nutrient removal levels surpassing BNR as determined in the Tributary Strategy process of 2005 in order to meet Chesapeake Bay water quality targets. Project S-22.11 was split from the plant-wide projects (S-22.09) and provides funding for WSSC's share of Blue Plains-associated projects which are "outside the fence" of the treatment plant.

<u>Cost Impact</u>: These six Blue Plains projects, the largest group of expenditures in the CIP, represent 48% of the total program. The figures shown above are derived from the latest available spending projections provided by the District of Columbia Water and Sewer Authority (DCWASA). Officials at the DCWASA have indicated that they have the fiscal capacity as well as the engineering capability to implement these projects. Spending at the DCWASA staff-proposed rate in future years may challenge the WSSC's ability to stay within County-established spending affordability limits. It is, therefore, recommended that the coordination of development and approval of the DCWASA's and WSSC's CIPs be sustained in order that the economic development and environmental objectives of the region be met, without causing a rapid increase in WSSC customers' bills. An explanation of the cost changes for each project is included on the individual project description forms that immediately follow this summary page.

| A. Identification and Coding Information | | | 2. Da | 2. Date: October 1, 2009 7. Pre PDF Pg.No.: 8. Req. Adeq. Pub. Fac. | | | | | | | | | E. Annual Operating Budget Impact (000's) FY of Impact | | | | |
|--|-------------|-------------|------------------|---|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--|--|----------------|-------|---------|--|
| 1. Project Number Agency Number Update Code | | | | Revised: January 20, 2010 | | | | | | | | | osts ^{Staf} | | | | |
| 954811 S-22.06 | Change | | | | ary 20, 20 | 10 - | | | | | | Facility Co | Oth StS Mair | er ntenance | | | |
| 3. Project Name: Blue Plains WWT | P: Liquid | Train Proj | ects, Part | 2 | | 5 | 5.Agency: | W | SSC | | | | Deb | ot Service | 19555 | | |
| 4. Program: Sanitation | 6. Plannin | g Area: | Bi-Co | ounty | | | | | | | | | | ewer Rate | | | |
| В. | | E | Expenditu | ire Sched | ule (000': | s) | | | | | | F. Approval and Expenditure Data (000's) | | | | | |
| | (8) | (9) Thru | (10) Estimate | (11) Total | (12) Year 1 | (13) Year 2 | (14) Year 3 | (15) Year 4 | (16) Year 5 | (17) Year 6 | (18) Beyond | Data First | in Capital P | | | FY 95 | |
| Cost Elements | Total | FY '09 | FY '10 | 6 Years | FY '11 | FY '12 | FY '13 | FY '14 | FY '15 | FY '16 | 6 Years | | • | rogram | | | |
| Planning, Design & Supervision | 42,562 | 32,205 | 2,140 | 6,603 | 490 | 1,015 | 2,310 | 842 | 823 | 1,123 | 1,614 | Date First | •• | | | FY 95 | |
| Land | | | | | | | | | | | | Initial Cos | Estimate | | | 243,633 | |
| Site Improvements & Utilities | | | | | | | | | | | | Cost Estin | ate Last FY | (| | 224,120 | |
| Construction | 195,441 | 173,380 | 4,362 | 14,639 | 2,316 | 4,734 | 3,983 | 778 | 796 | 2,032 | 3,060 | Present C | ost Estimate | e | | 240,383 | |
| Other | 2,380 | 2,056 | 65 | 212 | 28 | 57 | 63 | 16 | 16 | 32 | 47 | Approved | Request, La | ast FY | | 4,803 | |
| Total | 240,383 | 207,641 | 6,567 | 21,454 | 2,834 | 5,806 | 6,356 | 1,636 | 1,635 | 3,187 | 4,721 | Total Expe | nditures & I | Encumbrances | | 207,641 | |
| C . | | | Funding | g Schedul | e (000's) | | | | | | | Approval F | Request FY | 11 | | 2,834 | |
| WSSC Bonds | 227,187 | 196,243 | 6,207 | 20,275 | 2,678 | 5,487 | 6,007 | 1,546 | 1,545 | 3,012 | 4,462 | Suppleme | ntal Approva | al Request | | | |
| City of Rockville | 13,196 | 11,398 | 360 | 1,179 | 156 | 319 | 349 | 90 | 90 | 175 | 259 | Current F | | | | | |
| D. Description & Justification | | | | | | | | | | | | | | | | | |
| DESCRIPTION | | | | | | | | | | | | G. Status | Informatio | | | | |
| This project provides funding for | | | | | | | | | | | 993. | Land Status: Not applicable % Project Completion: On-Going | | | | | |
| Major projects include: Filtration | and Disin | fection Re | ehabilitatio | on; and Du | ual Purpos | se Sedime | | | | า. | | Est. Completion Date: On-Going | | | | | |
| Service Area Bi-County Area | | | | | | | Cap | bacity 37 | 0 MGD | | | | | 5 | | | |
| Plans & Studies | | | | | | | | | | | | H. Map | Map Refer | rence Code: | | | |
| The Blue Plains Intermunicipal A | Agreement | t of 1985; | the DCW | ASA Masi | ter Plan (* | 1998); and | d the DCV | VASA Pro | posed FY | 2009 - F | Y 2018 | | | | | | |
| Capital Improvement Program ir Specific Data | | | | | , | ,. | | | | | | | | | | | |
| This is a continuation of the DC | WASA's u | pgrading | of the Blu | e Plains V | Vastewate | er Treatme | ent Plant. | | | | | | | | | | |
| Cost Change | | | | | | | | | | | | | | | | | |
| The cost increase is due to revise research and pilot projects, and | | | | | t estimate | es for Filtra | ation and | Disinfecti | on Faciliti | es, proce | SS | | | | | | |
| STATUS Not Applicable | | . , | 0 | | | | | | | | | | | | . – | | |
| OTHER | | | | | | | | | | | | MAP NOT AVAILABLE | | | | | |
| 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 | ct. The fun | nding sche | edule also | indicates | the calcu | lated Roc | kville sha | re of the o | cost. | | | | | | | | |
| COORDINATION | | | | | | | | | | | | | | | | | |
| District of Columbia Water & Se on WSSC Project S-22.08). (En | | | | | | | | | Removal o | costs are | carried | | | | | | |
| NOTE This project supports 1009 | % System | Improven | nent. | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

| A. Identification and Coding Information | | | | 2. Da | 2. Date: October 1, 2009 | | | | 7. Pre PDF Pg.No.: 8. Req. Adeq. Pub. Fac. | | | | | | E. Annual Operating Budget Impact (000's) FY of Impact | | | | |
|--|---|---|--------------------------------------|--------------------------------------|--|--|-------------------------------------|---|--|---|----------------------|----------------|---|-----------|--|---------|--------|---------|--|
| 1. Project Number | . Project Number Agency Number Update Code | | | Revised: January 20, 2010 | | | | | | | | Program | Costs | Staff | | | | | |
| 954812 | S-22.07 | Change | ; | Revis | sed: Janu | ary 20, 20 | 010 | | | | | | Facility C | osts | Other Maintenance | e | | | |
| 3. Project Name: | Blue Plains WWT | P: Biosoli | ds Manag | ement, P | art 2 | | : | 5.Agency: | W | SSC | | | - | | Debt Servic | e | 29895 | | |
| 4. Program: | Sanitation | 6. Plannin | g Area: | Bi-Co | ounty | | | | | | | | | | | | 29895 | | |
| _ | | | - | | - | | | | | | | | Impact o | n Water | or Sewer R | late | 64¢ | | |
| В. | | | | • | | dule (000' | | 1 | | | | | F. Approval and Expenditure Data (000's) | | | | | | |
| | | (8) | (9) Thru | (10) Estimate | (11) Total | (12) Year 1 | (13) Year 2 | (14) Year 3 | (15) Year 4 | (16) Year 5 | (17) Year 6 | (18) Beyond | Date Fire | st in Cap | oital Program | n | | FY 95 | |
| Cost Elements Planning, Design | & Supervision | Total 78,662 | FY '09 36,070 | FY '10 5,996 | 6 Years 36,037 | FY '11 8,958 | FY '12 11,027 | FY '13 10,353 | FY '14 4,858 | FY '15 375 | FY '16 466 | 6 Years 559 | Date First | st Appro | ved | | | FY 95 | |
| Land | a oupervision | 70,002 | 50,070 | 5,550 | 50,057 | 0,000 | 11,027 | 10,000 | 4,000 | 575 | 400 | 555 | Initial Co | • • | | | | 361,252 | |
| Site Improvement | | | | | | | | | | | | | Cost Est | | | | | 310,198 | |
| Construction | s & Otilities | 278,101 | 61,576 | 7 000 | 207,278 | 29,636 | 91,093 | 49,221 | 29,716 | 2,508 | 5,104 | 2,157 | Present | | | | | 360,331 | |
| Other | | 3.568 | 976 | 131 | 2,434 | 386 | 1,093 | 49,221 | 346 | 2,308 | 5,104 | 2,137 | | | est, Last FY | | | 16,351 | |
| Total | | 360,331 | 98,622 | | 245,749 | | 103,141 | | 34,920 | 2,912 | 5,626 | 2,743 | | | | hrances | | 98,622 | |
| | | , | , | | Funding Schedule (000's) | | | | | _, | -, | _, | Total Expenditures & Encumbrances | | | | 38,980 | | |
| C. WSSC Bonds | | 340,549 | 93,208 | | 232,258 | 36,840 | 97,479 | 56,867 | 33,003 | 2,752 | 5,317 | 2,592 | | | | | _ | 30,900 | |
| City of Rockville | | 19,782 | | 726 | • | 2,140 | 5,662 | | 1,917 | 160 | 309 | 151 | Supplerr Current | | oproval Req | uest | | | |
| | | | 0, | . 20 | , | ,o | 0,002 | 0,000 | .,• | | | | Ounchi | 1 1 (10) | | | | | |
| D. Description & DESCRIPTION | Justinication | | | | | | | | | | | | G. Status Information Land Status: Not applicable | | | | | | |
| 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. | | | | | | | | | | | % Projec Est. Con | t Comp | letion: C | On-Going | C | | | | |
| | Service Area Bi-County Area Capacity 370 MGD | | | | | | | | | | | | Ll Man | Man | Deference | Codor | | | |
| JUSTIFICATION | , | | | | | | | | | | | | Н. Мар | мар | Reference | Code: | | | |
| Plans & Stud | lies | | | | | | | | | | | | | | | | | | |
| Biosolids Mar Alternatives F (October, 200 | | ASA Blue | Plains Wa | astewater | Treatmer | nt Plant Pl | nase ÍÍ - E | Design and | d Cost Co | nsideratio | ns for Tre | eatment | | | | | | | |
| Specific Data | | | - ((111) - | | 20 | | | | | | | | | | | | | | |
| | s needed to implen | nent a set | of facilitie | s which w | ili provide | e a permar | nent blose | olids mana | agement p | program to | or Blue Pl | lains. | | | | | | | |
| Cost Change | • ease is primarily d | ue to refine | oments in | design a | nd constru | iction of th | ne new D | iaostor Fa | cilities an | d associat | | am | | МА | | | | | |
| management | | | | ucsign a | | | | igester i a | cintics an | u 23300121 | cu progra | am | MAP NOT AVAILABLE | | | | | | |
| STATUS Not App | olicable | | | | | | | | | | | | | | | | | | |
| of spending a schedules. G projects are, i | cope has remained ind DCWASA's late Given the open-end in fact, expected to added to this project | est project led nature o continue | manager of the Blu indefinitel | nent data e Plains y. As nev | , and fully projects, t w sub-proj | reflect D0 his PDF d jects are a | CWASA's oes not fi added to t | s current c ully reflect the Blue P | ost estima the total lains facil | ates and e project cos ity plans, f | xpenditu sts. The | re se | | | | | | | |
| COORDINATION | | | 5.55 | | | | | | | | | | | | | | | | |
| | umbia Water & Se | ewer Autho | ority (respo | onsible fo | r design a | nd constru | uction). | | | | | | | | | | | | |
| | oject supports 100 | | | | - | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

| A. Identification and Coding Inform | nation | | 2. Da | te: Octo | ber 1, 200 |)9 7 | 7. Pre PD | F Pg.No.: | 8. Req. | Adeq. Pu | ıb. Fac. | E. Annual Operating Budget Impact (000 | 's) FY of Imp | | | |
|---|--|----------------|--------------------|------------------|------------------|------------------|------------------|---------------|------------------|------------------|-----------------------------|--|--------------------|--|--|--|
| 1. Project Number Agency Number | Update | Code | | | | | | | | | | Program Costs Staff | | | | |
| 973817 S-22.08 | Change |) | Revis | ed: Janu | ary 20, 20 | 10 | | | | | | Other Other Facility Costs Maintenance | | | | |
| 3. Project Name: Blue Plains WWTF | P: Biologie | cal Nutrie | nt Remov | al | | Ę | 5.Agency: | WS | SC | | | Debt Service | 3307 | | | |
| 4. Program: Sanitation 6 | 6. Plannin | g Area: | Bi-Co | unty | | | | | | | | Total Costs | 3307 | | | |
| | | | | | | | | | | | | Impact on Water or Sewer Rate | 7¢ | | | |
| В. | | E | Expenditu | ire Schec | lule (000' | s) | | | | | | F. Approval and Expenditure Data (000's |) | | | |
| | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) | (18) | | • | | | |
| Cost Elements | Total | Thru FY '09 | Estimate FY '10 | Total 6 Years | Year 1 FY '11 | Year 2 FY '12 | Year 3 FY '13 | | Year 5 FY '15 | Year 6 FY '16 | Beyond 6 Years | Date First in Capital Program | FY 9 | | | |
| Planning, Design & Supervision | 17,446 | 12,434 | 1,479 | 3,533 | 1,473 | 1,336 | 724 | | | | | Date First Approved | FY 9 | | | |
| Land | | | | | | | | | | | | Initial Cost Estimate | 83,227 | | | |
| Site Improvements & Utilities | | | | | | | | | | | | Cost Estimate Last FY | 89,115 | | | |
| Construction | 62,803 | 31,080 | 11,546 | 20,177 | 5,959 | 10,546 | 3,672 | | | | | Present Cost Estimate | 81,05 [,] | | | |
| Other | 802 | 435 | 130 | 237 | 74 | 119 | 44 | | | | | Approved Request, Last FY | 21,344 | | | |
| Total | 81,051 | 43,949 | 13,155 | 23,947 | 7,506 | 12,001 | 4,440 | | | | | Total Expenditures & Encumbrances | 43,949 | | | |
| | | | | | le (000's) | | | | | | | Approval Request FY 11 | 7,506 | | | |
| C. WSSC Bonds | 38,300 | 20,768 | 6,216 | | | 5,671 | 2,098 | | | | | | 7,500 | | | |
| State Aid | 40,527 | 21,975 | 6,578 | 11,974 | 3,753 | 6,001 | 2,000 | | | | | Supplemental Approval Request | | | | |
| | 2,224 | 1,206 | 361 | 657 | 206 | 329 | 122 | | | | | Current FY (10) | | | | |
| City of Rockville | 2,224 | 1,200 | 301 | 657 | 200 | 329 | 122 | | | | | G. Status Information | | | | |
| D. Description & Justification | | | | | | | | | | | | Land Status: Not applicable | | | | |
| | DESCRIPTION This project provides funding for WSSC's share of the Blue Plains Biological Nutrient Removal Pilot Project and BNR Permanent | | | | | | | | | | % Project Completion: C-85% | | | | | |
| Facility design and construction. | | | | | | | | | | | | Est. Completion Date: FY 2014 | | | | |
| control building, addition of fine t | oubble diff | fusers, an | d improve | ements to | the nitrific | cation faci | lities (Pha | ase II). This | | | | H. Map Map Reference Code: | | | | |
| the 1995 Consent Decree signed | d by the D | istrict of C | Columbia | and the U | nited Stat | es Depar | | | | | | | | | | |
| Service Area Bi-County Area | | | | | | | Caj | pacity 370 | MGD | | | | | | | |
| | | | | | | | | | | | | | | | | |
| Plans & Studies Porter, MacNamee & Seely Stud | hu (1002). | | on No. 00 | 162. Civil | | 01 201 | 2 100. +h | | Monto | · Dian (10 | 00). | | | | | |
| and the DCWASA Proposed FY | | | | | | | | | Master | Fiall (19 | 190), | | | | | |
| Specific Data | | | | | Ū | | , | , | | | | | | | | |
| The initial \$12.1 million Pilot Pro | | | | | | | | | | | | | | | | |
| basins were converted to anoxic | | | | | | | | | | | | | | | | |
| two years, the third and fourth ye Consent Decree acknowledged t | | | | | | ruction of | permane | IL DINK IACI | illies co | mmenced | J. The | MAP NOT AVAILABLE | : | | | |
| Cost Change | | 9 | | | | | | | | | | | | | | |
| The cost decrease is due to sub | -projects r | moving th | rough cor | struction. | | | | | | | | | | | | |
| STATUS Under Construction | | | | | | | | | | | | | | | | |
| OTHER | | | | | | | | | | | | | | | | |
| The project scope has remained required under the Consent Dec (MDE) has, by agreement, comm | ree. Phas | se I and p | ortions of | Phase II a | are compl | ete. The I | | | | | | | | | | |
| COORDINATION | | . origing c | | . analig h | c. oligibio | 20010. | | | | | | | | | | |
| Maryland Department of the Env | ironment | and Distri | ict of Colu | mhia Wat | er & Sew | er Authori | itv (respor | nsible for de | sion an | d constru | (ction) | | | | | |
| NOTE This project supports 1009 | | | | | | | | | Sign an | | | | | | | |
| | | | | | | | | | | | | | | | | |

| A. Identification and Coding Information 2. Date: October 1, 2009 7. Pre PDF Pg.No.: 8. Req. Adeq. Pub. Fac. E. Annual Operating Budget Impact (000's) | E. Annual Operating Budget Impact (000's) FY of Impact | | | | |
|--|--|--|--|--|--|
| 1. Project Number Agency Number Update Code | | | | | |
| 023805 S-22.09 Change Other Other Other Other Facility Costs | | | | | |
| 3. Project Name: Blue Plains WWTP: Plant-wide Projects 5. Agency: WSSC Debt Service | | | | | |
| 4. Trogram. Samaton 0. Flamming Area. Di-County | | | | | |
| Impact on Water or Sewer Rate 32¢ | | | | | |
| B. Expenditure Schedule (000's) F. Approval and Expenditure Data (000's) | | | | | |
| (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18) | 5)(05 | | | | |
| Cost Elements Total FY '10 G Years FY '11 FY '12 FY '13 FY '14 FY '15 FY '16 G Years | FY 95 | | | | |
| Planning, Design & Supervision 44,172 35,077 1,558 6,705 1,062 2,207 1,123 1,121 880 312 832 Date First Approved | FY 02 | | | | |
| Land Initial Cost Estimate | 179,915 | | | | |
| Site Improvements & Utilities Cost Estimate Last FY | 197,842 | | | | |
| Construction 133,961 93,694 6,531 31,294 8,625 5,599 5,190 6,877 4,374 629 2,442 Present Cost Estimate | 179,915 | | | | |
| Other 1,782 1,288 81 380 97 78 63 80 53 9 33 Approved Request, Last FY | 18,126 | | | | |
| Total 179,915 130,059 8,170 38,379 9,784 7,884 6,376 8,078 5,307 950 3,307 Total Expenditures & Encumbrances | 130,059 | | | | |
| C. Funding Schedule (000's) Approval Request FY 11 | 9,784 | | | | |
| WSSC Bonds 170,040 122,920 7,722 36,273 9,247 7,451 6,026 7,635 5,016 898 3,125 Supplemental Approval Request | | | | | |
| City of Rockville 9,875 7,139 448 2,106 537 433 350 443 291 52 182 Current FY (10) | | | | | |
| D. Description & Justification | | | | | |
| DESCRIPTION G. Status Information | Land Status: Not applicable | | | | |
| Lhis project provides funding for WSSC's share of Blue Plains plant-wide projects for which construction began after June 30, 1993 | | | | | |
| Major projects include. Trocess Control Computer Systems, Electrical Tower Systems Additions, Filases F& II, Fight Honty | % Project Completion: On-Going Est. Completion Date: On-Going | | | | |
| | | | | | |
| Service Area Bi-County Area Capacity 370 MGD JUSTIFICATION H. Map Map Reference Code: | | | | | |
| 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 MAP NOT AVAILABLE | MAP NOT AVAILABLE | | | | |
| 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. | | | | | |

| A. Identification ar | nd Coding Inform | nation | | 2. Da | te: Octo | ber 1, 200 |)9 | 7. Pre PD | F Pg.No.: | 8. Req. | Adeq. Pu | b. Fac. | E. Annual Operating Budget Impact (000's) | FY of Impact |
|----------------------|--|-------------|----------------|--------------------|------------------|-----------------------|------------------|------------------|------------------|------------------|------------------|-------------------|--|--------------|
| 1. Project Number | Agency Number | Update | Code | | | | | | | | | | Program Costs Staff | |
| 083800 | S-22.10 | Change | | Revis | ed: Janu | ary 20, 20 | 010 | | | | | | Other Facility Costs Maintenance | |
| 3. Project Name: B | Blue Plains WWTF | P: Enhanc | ed Nutrie | nt Remov | /al | | : | 5.Agency: | W | SSC | | | Debt Service | |
| 4. Program: S | Sanitation 6 | 6. Planning | g Area: | Bi-Co | ounty | | | | | | | | Total Costs | |
| | | | | | | | | | | | | | Impact on Water or Sewer Rate | |
| В. | | | E | Expenditu | ire Sched | lule (000' | s) | | | | | | F. Approval and Expenditure Data (000's) | |
| | | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) | (18) | | |
| Cost Elements | | Total | Thru FY '09 | Estimate FY '10 | Total 6 Years | Year 1 FY '11 | Year 2 FY '12 | Year 3 FY '13 | Year 4 FY '14 | Year 5 FY '15 | Year 6 FY '16 | Beyond 6 Years | Date First in Capital Program | FY 08 |
| Planning, Design & | Supervision | 63,573 | 1,571 | 7,843 | 48,055 | 7,057 | 9,366 | | 9,161 | 6,960 | 3,746 | 6,104 | Date First Approved | FY 07 |
| Land | | | | | | | | | | | | | Initial Cost Estimate | 426,753 |
| Site Improvements | & Utilities | | | | | | | | | | | | Cost Estimate Last FY | 290,352 |
| Construction | | 364,816 | | 2,947 | 297,572 | 27,579 | 70,384 | 82,577 | 36,947 | 32,915 | 47,170 | 64,297 | Present Cost Estimate | 432,673 |
| Other | | 4,284 | 16 | 108 | 3,456 | 346 | 798 | 943 | 461 | 399 | 509 | 704 | Approved Request, Last FY | 8,413 |
| Total | | 432,673 | 1,587 | 10,898 | 349,083 | 34,982 | 80,548 | 95,285 | 46,569 | 40,274 | 51,425 | 71,105 | Total Expenditures & Encumbrances | 1,587 |
| С. | | | | Funding | g Schedu | le (000's) | • | | | | | | Approval Request FY 11 | 34,982 |
| State Aid | | 432,673 | 1,587 | 10,898 | 349,083 | 34,982 | 80,548 | 95,285 | 46,569 | 40,274 | 51,425 | 71,105 | Supplemental Approval Request | |
| D. Description & J | lustification | | | | | Current FY (10) | | | | | | | | |
| DESCRIPTION | | | | | | | | | | | | | | |
| | ovides funding for | | | | | G. Status Information | | | | | | | | |
| | els below BNR lev | | | | | | | | | | | | Land Status: Not Applicable | |
| | projects include: N watering Pumping | | emoval F | acilities, (| Sentrate | reatment | , Ennanc | ed Clarific | ation Fac | llity, and E | siue Plain | S | % Project Completion: P-65% Est. Completion Date: FY 2019 | |
| | Bi-County Area | , etationi | | | | | | Ca | pacity 37 | 0 MGD | | | Est. Completion Date. FY 2019 | |
| JUSTIFICATION | ,, , , | | | | | | | | ,, , . | | | | H. Map Map Reference Code: | |
| Plans & Studie | es | | | | | | | | | | | | | |
| of the Enhance | ay Program Tribut ed Nitrogen Remov SA Proposed FY 2 | val Proces | s Alterna | tive for th | e Blue Pl | ains Adva | nced Wa | stewater - | Freatment | | | | | |
| Specific Data | | 2000 11 | 2010 00 | | overnenti | rogramm | mormado | | , 2000). | | | | | |
| • | his program are ar | nticipated | to be cov | ered by th | ne Bay Re | estoration | Fund. | | | | | | | |
| Cost Change | 1 0 | • | | | | | | | | | | | | |
| The cost increa | ase is due to revis | ed estima | tes from | DCWASA | and a high | gher nego | tiated WS | SSC cost | share. | | | | | |
| STATUS Various S | Stages of Planning | g & Desigr | n (WSSC | Contract | Nos. CB4 | 168L05, | CB41680 | Q05). | | | | | MAP NOT AVAILABLE | |
| OTHER | | | | | | | | | | | | | | |
| | ope has remained e conditions and c | | | | schedule | e shown in | Block B | are plann | ing level e | estimates | and may | change | | |
| COORDINATION | | | | | | | | | | | | | | |
| | artment of the Env onsible for design | | | ironmenta | al Protecti | on Agenc | y, Region | n III and D | istrict of C | Columbia \ | Water & S | ewer | | |
| NOTE This proj | ect supports 100% | 6 Environr | nental Re | gulation. | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

| A. Identification and Coding Inform | mation | | 2. Da | te: Octo | ber 1. 200 |)9 7 | 7. Pre PD | F Pg.No.: | 8. Req. | Adeq. Pu | b. Fac. | E. Annual Operating Budget Impa | ct (000's) | FY of Impact |
|---|-------------|----------------|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|--|------------|--------------|
| 1. Project Number Agency Number | Update | Code | | | | | | | | | | Program Costs Staff | | |
| 113804 S-22.11 | Change | 9 | Revis | ed: Janu | ary 20, 20 | 010 - | | | | | | Other | | |
| 3. Project Name: Blue Plains: Pipeli | ines & App | ourtenance | es | | | 5 | 5.Agency: | WS | SSC | | | Debt Service | | |
| 4. Program: Sanitation | 6. Plannin | g Area: | Bi-Co | ounty | | | | | | | | Total Costs Impact on Water or Sewer Rate | | |
| В. | | E | Expenditu | ire Sched | lule (000' | s) | | | | | | F. Approval and Expenditure Dat | a (000's) | |
| | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) | (18) | | | |
| Cost Elements | Total | Thru FY '09 | Estimate FY '10 | Total 6 Years | Year 1 FY '11 | Year 2 FY '12 | Year 3 FY '13 | Year 4 FY '14 | Year 5 FY '15 | Year 6 FY '16 | Beyond 6 Years | Date First in Capital Program | | FY 11 |
| Planning, Design & Supervision | 20,901 | 1,129 | 2,896 | | 3,134 | 1,907 | 2,892 | 2,320 | 1,968 | 1,418 | 3,237 | Date First Approved | | FY 02 |
| Land | | | | | | | | | | | | Initial Cost Estimate | | 90,997 |
| Site Improvements & Utilities | | | | | | | | | | | | Cost Estimate Last FY | | |
| Construction | 80,915 | 6,434 | 15,332 | 48,944 | 6,105 | 4,313 | 14,344 | 11,688 | 6,360 | 6,134 | 10,205 | Present Cost Estimate | | 102,833 |
| Other | 1,017 | 76 | 182 | 625 | 92 | 62 | 172 | 140 | 83 | 76 | 134 | Approved Request, Last FY | | |
| Total | 102,833 | 7,639 | 18,410 | 63,208 | 9,331 | 6,282 | 17,408 | 14,148 | 8,411 | 7,628 | 13,576 | Total Expenditures & Encumbrance | s | 7,639 |
| С. | 1 | | Funding | g Schedu | le (000's) | 1 | 1 | 1 | | | | Approval Request FY 11 | | 9,331 |
| WSSC Bonds | 97,187 | 7,220 | 17,399 | 59,737 | 8,819 | 5,937 | 16,452 | 13,371 | 7,949 | 7,209 | 12,831 | Supplemental Approval Request | | |
| City of Rockville | 5,646 | 419 | 1,011 | 3,471 | 512 | 345 | 956 | 777 | 462 | 419 | 745 | Current FY (10) | | |
| D. Description & Justification | | | | • | | | | | | | | | | |
| DESCRIPTION | | | | | | | | | | | | G. Status Information | | |
| This project provides funding for | r WSSC's | share of E | Blue Plain | s-associa | ted projec | ts which a | are "outsi | de the fen | ce" of the | treatmen | t plant. | Land Status: Not App | | |
| Major projects include: Potoma | | | | | | | | | | | _ | % Project Completion: On-Goir Est. Completion Date: On-Goir | • | |
| Rehabilitation; Influent Sewers F Control Plan (e.g. Anacostia Tur | | ion; and t | ne new pr | ojects ass | sociated v | with the Co | ombined | Sewer Ove | erflow (CS | SO) Long | Ierm | Est. Completion Date. On-Goir | J | |
| Service Area Bi-County Area | | | | | | | Ca | pacity Va | rious | | | H. Map Map Reference Code: | | |
| JUSTIFICATION | | | | | | | | | | | | | | |
| Plans & Studies | | | | | | | | | | | | | | |
| The Blue Plains Intermunicipal / Capital Improvement Program in | | | | A Master | Plan (199 | 8); and th | e DCWA | SA Propos | sed FY 20 | 09 - FY 2 | 018 | | | |
| Specific Data | | | , | | | | | | | | | | | |
| This is a continuation of DCWA | SA's upgra | ading of th | e Blue Pl | ains-asso | ciated pro | jects outs | side the fe | ence. | | | | MAP NOT AVAI | ABI F | |
| Cost Change | | | | | | | | | | | | | | |
| The cost for this project has inc addition of the Anacostia Tunne | | | | | | nstruction | for Potor | nac Interc | eptor proj | ects and, | the | | | |
| STATUS Not Applicable | | | | | | | | | | | | | | |
| <u>OTHER</u> | | | | | | | | | | | | | | |
| The project scope was develope | | | | | | | | | | | | | | |
| The creation of this Pipelines & expected increases in costs for | | | | | | | | | | | | | | |
| active projects outside the fence | | | | | | | | | | | | | | |
| Capital & Operating Budget 10- | year foreca | ast and la | test proje | ct manage | ement dat | a, and ref | lect WAS | A's curren | it expend | ture estin | nates | | | |
| and schedules. Given the open in fact, expected to continue ind | | | | | | | | | | | | | | |
| added to this project. The fundir | | | | | | | | | associale | u 00313 W | | | | |
| COORDINATION | | | | | | | | | | | | | | |
| District of Columbia Water & Se | wer Autho | ority (respo | onsible for | r design a | nd constr | uction). | | | | | | | | |
| NOTE This project supports 45% | System I | mprovem | ent and 5 | 5% Enviro | onmental I | Regulatio | n. | | | | | | | |

| A. Identification and Coding Inform | nation | 2. Dat | te: Octob | per 1, 200 | 9 7 | 7. Pre PDI | F Pg.No.: | 8. Req. Adeq. Pu | ıb. Fac. | E. Annual Operating Budget Impact (00 | 0's) FY of Impact |
|--|-----------------------|--------------------|--------------------|---------------------------|------------------|------------------|------------------|--------------------------------|-------------------|---------------------------------------|-------------------|
| 1. Project Number Agency Number | Update Code | | | | | | | | | Program Costs Staff | |
| 083807 S-89.22 | Change | Revis | ea: | | | | | | | Other Facility Costs Maintenance | |
| 3. Project Name: Anacostia Storage | Facility | | | | 5 | 5.Agency: | W | SSC | | Debt Service | 2828 15 |
| 4. Program: Sanitation | 6. Planning Area: | Bi-Co | unty | | | | | | | Total Costs | 2828 15 |
| | | | | | | | | | | Impact on Water or Sewer Rate | 6¢ 15 |
| В. | E | Expenditu | re Schedu | ule (000's | 5) | | | | | F. Approval and Expenditure Data (000 | s) |
| | (8) (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) (17) | (18) | | , |
| Cost Elements | Thru Total FY '09 | Estimate FY '10 | Total 6 Years | Year 1 FY '11 | Year 2 FY '12 | Year 3 FY '13 | Year 4 FY '14 | Year 5 Year 6 FY '15 FY '16 | Beyond 6 Years | Date First in Capital Program | FY 08 |
| Planning, Design & Supervision | 5,038 1,153 | 665 | 3,220 | 1,060 | 1,020 | 910 | 230 | | | Date First Approved | FY 08 |
| Land | | | | | | | | | | Initial Cost Estimate | 33,957 |
| Site Improvements & Utilities | | | | | | | | | | Cost Estimate Last FY | 36,035 |
| Construction | 28,676 | 850 | 27,826 | 4,400 | 9,300 | 10,126 | 4,000 | | | Present Cost Estimate | 36,971 |
| Other | 3,257 | 152 | 3,105 | 546 | 1,032 | 1,104 | 423 | | | Approved Request, Last FY | 1,572 |
| Total | 36,971 1,153 | 1,667 | 34,151 | 6,006 | 11,352 | 12,140 | 4,653 | | | Total Expenditures & Encumbrances | 1,153 |
| | , | | | | , | , - | , | | | Approval Request FY 11 | 6,006 |
| C. WSSC Bonds | 33,275 1,038 | Funding | Schedule 30,737 | e (000's) 5,406 | 10,217 | 10,926 | 4,188 | | | | 0,000 |
| SDC | | 1,300 | | | | 1,214 | 4,100 | | | Supplemental Approval Request | |
| | 3,696 115 | 167 | 3,414 | 600 | 1,135 | 1,214 | 465 | | | Current FY (10) | |
| D. Description & Justification | | | | | | | | | | G. Status Information | |
| DESCRIPTION | | | | | | | | | | Land Status: Public/Agency | owned land |
| This project provides for the cus | tomer outreach, pla | inning, des | sign and co | onstructio | on of a ne | w seven i | million ga | lon sewer overflow | | % Project Completion: D-60% | |
| storage facility and needed power relocation of existing PCCP mat | | | | | | | | | | Est. Completion Date: December 201 | 3 |
| Service Area Lower Anacostia | | 5.1 | ·····, | | ,,,, | | pacity 7 | | | III Man Man Defenence Code | |
| JUSTIFICATION | 0 | | | | | | | | | H. Map Map Reference Code: | |
| Plans & Studies | | | | | | | | | | | |
| "Anacostia Wastewater Pumping | | | | | | | | | | | |
| Event June 25 - 26; 2006 Anaco Report, Whitman, Requardt & A | | | | | | | | | riteria | | |
| Associates, Shah & Associates | | 500), Anat | | FSFUW | | iity Study, | wniunai | Requartit and | | | |
| Specific Data | () | | | | | | | | | | |
| Currently, Anacostia WWPS No | . 2 receives flows fr | om the Hy | attsville W | /WPS an | d by grav | rity from s | everal ba | sins within the Trib | utary | | |
| Area of the Anacostia River. Th | | | | | | | | | | | |
| DCWASA, the Anacostia WWPS rainfall events, the influent flow t | | | | | | | | | | MAP NOT AVAILABL | E |
| site and/or at Junction Chamber | No.1, in the vicinity | of the Hy | attsville W | WPS. T | he Conse | ent Decree | e betweer | WSSC, MDE, and | the | | |
| EPA was entered into on Decem | nber 7, 2005, stipula | ating that t | he WSSC | develop | and forma | ally subm | it a Facilit | y Plan for the Anac | ostia | | |
| No. 2 Pump Station to EPA/MDI weather related sanitary sewer of | | | | | | | | | ate | | |
| Cost Change | | | . 21 ump (| | | | | aly 01, 2000. | | | |
| Costs were increased for inflatio | n. | | | | | | | | | | |
| STATUS Final Design (WSSC Cont | | 06 , CP44 | 41B06). | | | | | | | | |
| OTHER | | , - | - / | | | | | | | | |
| The project scope remains the s | ame. Expenditures | shown in | Block B a | re planni | ng level e | stimates | and may | change based upor | n site | | |
| specific conditions, design const | traints and negotiati | ons with t | he Marylar | nd Depart | tment of t | he Enviro | nment (N | DE). The new sew | er | | |
| overflow storage facility will be b Contract No. CP4441B06. Ana | | | | | | | | | | | |
| in March 2009. Planning stage f | | | | | | | | | | | |

Agency Number: S - 89.22 Project Name: Anacostia Storage Facility

COORDINATION

Montgomery County Government, Prince George's County Government, Potomac Electric Power Company, Maryland Department of the Environment, Prince George's County Department of Environmental Resources, U.S. Army Corps of Engineers and U.S. Environmental Protection Agency, Region III.

NOTE This project supports 10% Growth and 90% Environmental Regulation.

| A. Identification and Coding Inform | nation | | 2. Da | te: Octo | ber 1. 200 | 9 | 7. Pre PD | F Pg.No.: | 8. Req. | Adeq. Pub. Fac. | E. Annual Operating Budget Impact (000's) | FY of Impact |
|---|------------|-------------|------------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------------------|---|--------------|
| 1. Project Number Agency Number | Update | Code | | | , | - | | | | | Program Costs Staff | |
| 093802 S-89.23 | Change |) | Revis | ea: | | Ľ | | | | | Other Facility Costs Maintenance | |
| 3. Project Name: Anacostia No. 2 Se | creenings | Handling | System | | | : | 5.Agency: | W: | SSC | | Debt Service 173 | |
| 4. Program: Sanitation | 6. Plannin | g Area: | Bi-Co | unty | | | | | | | Total Costs | 13 |
| | | | | | | | | | | | Impact on Water or Sewer Rate | |
| В. | | E | | ire Sched | • | | 1 | 1 | I | | F. Approval and Expenditure Data (000's) | |
| | (8) | (9) Thru | (10) Estimate | (11) Total | (12) Year 1 | (13) Year 2 | (14) Year 3 | (15) Year 4 | (16) Year 5 | (17) (18) Year 6 Beyond | Date First in Capital Program | FY 09 |
| Cost Elements | Total | FY '09 | FY '10 | 6 Years | FY '11 | FY '12 | FY '13 | FY '14 | FY '15 | FY '16 6 Years | | |
| Planning, Design & Supervision | 295 | 3 | 148 | 144 | 124 | 20 | | | | | Date First Approved | FY 09 |
| Land | | | | | | | | | | | Initial Cost Estimate | 2,071 |
| Site Improvements & Utilities | | | | | | | | | | | Cost Estimate Last FY | 2,134 |
| Construction | 1,615 | | 440 | 1,175 | 1,125 | 50 | | | | | Present Cost Estimate | 2,196 |
| Other | 286 | | 88 | 198 | 187 | 11 | | | | | Approved Request, Last FY | 736 |
| Total | 2,196 | 3 | 676 | 1,517 | 1,436 | 81 | | | | | Total Expenditures & Encumbrances | 3 |
| C. | • | • | Funding | Schedul | e (000's) | | | | • | · · · · | Approval Request FY 11 | 1,436 |
| WSSC Bonds | 1,867 | 3 | 575 | 1,289 | 1,220 | 69 | | | | | Supplemental Approval Request | 40 |
| District of Columbia Government/W | 329 | | 101 | 228 | 216 | 12 | | | | | Current FY (10) | 18 |
| D. Description & Justification | | | | | | | | | | • | | |
| DESCRIPTION | | | | | | | | | | | G. Status Information | |
| This project provides for the colle | ection and | l compact | tion of wa | stewater s | creened s | olids at a | Anacostia | WWPS N | lo. 2, allo | wing for off-site | Land Status: Not applicable % Project Completion: D-0% | |
| disposal, prior to conveyance to | | |) . | | | | | | | | % Project Completion: D-0% Est. Completion Date: July 2011 | |
| Service Area Lower Anacostia | a Drainage | Basin | | | | | Ca | pacity 19 | 9 MGD | | | |
| JUSTIFICATION | | | | | | | | | | | H. Map Map Reference Code: | |
| Plans & Studies Anacostia Wastewater Pumping | Station N | o 2 Sor | | narada St | udv Final | | /hitmon E | Poquardt 8 | Accocio | tos (March 2007) | | |
| Specific Data | Station N | 0. 2, 3016 | enings o | pyraue St | uuy, Finai | Dian, W | riiunan, r | requalut o | ASSOCIAI | | | |
| This project is needed to replace | the prese | ent practio | e of aring | lina waste | water scr | eened so | lids and r | eturnina tl | nem to the | e flow for | | |
| conveyance to Blue Plains WW | TP, where | they clog | and dam | age filters | . WSSC | contribut | es a signi | ficant sha | re of the o | cost of repairing | | |
| and replacing those filters. Esse proposed screenings handling p | | | | | | | | | | | | |
| at Blue Plains. | | | ease life e | mciency c | | meula a | | | | | | |
| Cost Change | | | | | | | | | | | | |
| Not applicable. | | | | | | | | | | | | |
| STATUS Preliminary Design (WSSC | C Contract | t No. CP4 | 733A07,) |). | | | | | | | | |
| OTHER | | | | | | | | | | | | |
| The project scope has remained site specific conditions and design | | | litures in I | Block B ar | e planninę | g level es | stimates o | only and m | ay chang | e based upon | | |
| COORDINATION | | | | | | | | | | | | |
| District of Columbia Water & Set transmission limit.). | wer Autho | rity (DC-V | VASA fun | ding in pro | oportion to | o its 14 o | f 199 mgc | d sewage | oumping s | station | | |
| NOTE This project supports 100% | % System | Improver | nent. | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

| A. Identification and Coding Inform | nation | | 2. Da | te: Octo | ber 1, 200 | 9 7 | 7. Pre PDI | Pg.No.: | 8. Req. | Adeq. Pu | ıb. Fac. | E. Annual Operating Budget Impact (000's) FY | of Impact |
|---|-------------|----------------|--------------------|------------------|---------------------------------------|------------------|------------------|------------------|------------------|------------------|-------------------|--|-----------|
| 1. Project Number Agency Number | Update | | Revis | | | | | | | | | Program Costs Staff | |
| 093804 S-170.06 | Change | | Revis | eu. | | | | | | | | Other Facility Costs Maintenance | |
| 3. Project Name: Sewer Basin Planr | ning Progra | am | | | | 5 | 5.Agency: | W | SSC | | | Debt Service | |
| 4. Program: Sanitation | 6. Planning | g Area: | Bi-Co | unty | | | | | | | | Total Costs Impact on Water or Sewer Rate | |
| В. | | E | Expenditu | re Sched | lule (000': | s) | | | | | | F. Approval and Expenditure Data (000's) | |
| | (8) | (9) Thru | (10) | (11) Tatal | (12) | (13) | (14) | (15) | (16) | (17) | (18) Devend | | 514.00 |
| Cost Elements | Total | Thru FY '09 | Estimate FY '10 | Total 6 Years | Year 1 FY '11 | Year 2 FY '12 | Year 3 FY '13 | Year 4 FY '14 | Year 5 FY '15 | Year 6 FY '16 | Beyond 6 Years | Date First in Capital Program | FY 09 |
| Planning, Design & Supervision | 4,235 | 252 | 800 | 3,183 | 1,061 | 1,061 | 1,061 | | | | | Date First Approved | FY 09 |
| Land | | | | | | | | | | | | Initial Cost Estimate | 4,600 |
| Site Improvements & Utilities | | | | | | | | | | | | Cost Estimate Last FY | 4,732 |
| Construction | | | | | | | | | | | | Present Cost Estimate | 4,832 |
| Other | 597 | | 120 | 477 | 159 | 159 | 159 | | | | | Approved Request, Last FY | 1,184 |
| Total | 4,832 | 252 | 920 | 3,660 | 1,220 | 1,220 | 1,220 | | | | | Total Expenditures & Encumbrances | 252 |
| C. | | | Funding | Schedu | e (000's) | | | | • | | | Approval Request FY 11 | 1,220 |
| SDC | 4,832 | 252 | 920 | 3,660 | 1,220 | 1,220 | 1,220 | | | | | Supplemental Approval Request | |
| D. Description & Justification | | | | | · · · · · · · · · · · · · · · · · · · | | | | • | | | Current FY (10) | |
| Cancel Construction Const | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

| A. Identification and Coding Inform | mation | | 2. Da | te: Octo | ber 1, 200 | 9 | 7. Pre PD | F Pg.No.: | 8. Req. | Adeq. Pu | ub. Fac. | E. Annual Operating Budget Impact (0 | 00's) FY of Impact |
|--|---------------|--------------|---------------|---------------|--------------|---------|--------------|-------------|------------|-------------|-----------|--|--------------------|
| 1. Project Number Agency Number | Update | Code | | | , | - | | | | | | Program Costs Staff | |
| 093805 S-170.07 | Change | | Revis | ea: | | | | | | | | Other Facility Costs Maintenance | |
| 3. Project Name: Wastewater Pump | oing Station | n Capacity | y Evaluati | on | | | 5.Agency | W | SSC | | | Debt Service | 40 12 |
| 4. Program: Sanitation | 6. Plannin | g Area: | Bi-Co | unty | | | | | | | | Total Costs | 40 12 |
| | | E | vnonditu | ura Schad | ule (000's | -) | | | | | | | |
| <u>B.</u> | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) | (18) | F. Approval and Expenditure Data (00 |)'s) |
| Cost Elements | | Thru | Estimate | Total | Year 1 | Year 2 | 2 Year 3 | Year 4 | Year 5 | Year 6 | Beyond | Date First in Capital Program | FY 09 |
| Planning, Design & Supervision | Total 199 | FY '09 39 | FY '10 106 | 6 Years 54 | FY '11 54 | FY '12 | PY '13 | FY '14 | FY '15 | FY '16 | 6 Years | Date First Approved | FY 09 |
| Land | | | | | | | | | | | | Initial Cost Estimate | 460 |
| Site Improvements & Utilities | | | | | | | | | | | | Cost Estimate Last FY | 473 |
| Construction | | | | | | | | | | | | Present Cost Estimate | 223 |
| Other | 24 | | 16 | 8 | 8 | | | | | | | Approved Request, Last FY | 118 |
| Total | 223 | 39 | 122 | 62 | 62 | | | | | | | Total Expenditures & Encumbrances | 39 |
| C. | | | Funding | schedul | e (000's) | | | | | | | Approval Request FY 11 | 62 |
| WSSC Bonds | 223 | 39 | 122 | 62 | 62 | | | | | | | Supplemental Approval Request | |
| D. Description & Justification | | | | | | | | | | | | Current FY (10) | |
| DESCRIPTION | | | | | | | | | | | | | |
| This project provides for an asse | essment of | f WSSC w | vastewate | er pumping | g stations' | sizing | and capaci | ty in hand | ling curre | nt and fut | ure | G. Status Information | |
| wastewater flow as required unc | der Article | Ten of the | e 2005 Sa | nitary Sev | ver Overfle | ow Con | isent Decre | e. | | | | Land Status: Not Applicable | Э |
| Service Area Bi-County Area | | | | | | | | | | | | % Project Completion: P-10% Est. Completion Date: FY 2011 | |
| JUSTIFICATION | | | | | | | | | | | | | |
| Plans & Studies | h. (Manah | 4000). \\\ | 000 0 | : | | | | (Decemb | | | <u>_</u> | H. Map Map Reference Code: | |
| WSSC Strategic Sewerage Stud Strategic Sewerage Study Upda | | | SSC San | itary Sewe | er Overno | w Cons | sent Decree | (Decemb | er 7, 200 |); vv55v | | | |
| Specific Data | | , | | | | | | | | | | | |
| The Consent Decree specifies u | under Artic | le Ten – F | Pump Sta | tions, Sec | tion B.6. t | hat WS | SC shall re | -evaluate | its Pump | Stations | to | | |
| assure that each Pump Station | | | | | | | | | | | | | |
| shall be reported to EPA, MDE a Consent Decree. | and the Cit | lizens Gro | oups in the | e appropri | ate Annua | al Repo | rt to be sub | mitted un | der Sectio | on VII of t | he | | |
| Cost Change | | | | | | | | | | | | MAP NOT APPLICAB | LE |
| The cost has decreased to refle | ct negotiat | ed contra | ct with co | nsultant. | | | | | | | | | |
| STATUS Planning (WSSC Contract | t No. PM00 | 007A07,). | | | | | | | | | | | |
| OTHER | | | | | | | | | | | | | |
| The project scope has remained processes may be split out into | | | | | | | | s identifie | d through | the planr | ning | | |
| COORDINATION | | | | | | | | | | | | | |
| Montgomery County Governmer | nt, Prince (| George's (| County G | overnmen | t, Montgo | mery C | ounty Depa | artment of | Environm | ental Pro | otection, | | |
| Maryland Department of the Env Protection Agency, Region III (P 3679) by December 2010.) and | Part of Artic | le X Requ | uirements | for the Sa | | | | | | | | | |
| NOTE This project supports 100° | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

| A. Identification and Coding Inform | | | 2. Dat | te: Octol | ber 1, 200 |)9 7 | 7. Pre PD | F Pg.No.: | 8. Req. / | Adeq. Pub. F | ac. | E. Anr | nual Operating Budget Impact | (000's) FY of Imp | pact |
|---|---|---------------------------|------------------------|------------------------------|----------------|---|----------------|----------------|----------------|-----------------|-------------|----------|-----------------------------------|-------------------|------|
| 1. Project Number Agency Number | Update | Code | | | , | | | | | | | Progra | am Costs Staff | | |
| 103802 S-170.08 | Change | | Revis | ea: | | | | | | | | Facility | Other y Costs Maintenance | | |
| 3. Project Name: Septage Discharge | e Facility P | lanning & | Impleme | entation | | 5 | 5.Agency: | W | SSC | | | - | Debt Service | . 945 | 14 |
| 4. Program: Sanitation | 6. Planning | g Area: | Bi-Co | unty | | | | | | | | | Costs t on Water or Sewer Rate | | 14 |
| | | | | | | | | | | | | impac | | • 2¢ | 14 |
| В. | | | - | re Sched | | | | | | | | F. App | proval and Expenditure Data (0 | 00's) | |
| | (8) | (9) Thru | (10) Estimate | (11) Total | (12) Year 1 | (13) Year 2 | (14) Year 3 | (15) Year 4 | (16) Year 5 | | 18) yond | Date F | First in Capital Program | FY 1 | 10 |
| Cost Elements Planning, Design & Supervision | Total 2,022 | FY '09 522 | FY '10 400 | 6 Years 1,100 | FY '11 300 | FY '12 530 | FY '13 270 | FY '14 | FY '15 | FY '16 6 Y | 'ears | | First Approved | FY 1 | |
| Land | 2,022 | 022 | 100 | 1,100 | 000 | 000 | 210 | | | | | Initial | Cost Estimate | 10,83 | 5 |
| Site Improvements & Utilities | | | | | | | | | | | | Cost E | Estimate Last FY | 10,83 | 5 |
| Construction | 8,000 | | | 8,000 | | 5,300 | 2,700 | | | | | Prese | nt Cost Estimate | 10,972 | 2 |
| Other | 950 | | 40 | 910 | 30 | 583 | 297 | | | | | Appro | ved Request, Last FY | 880 | 0 |
| Total | 10,972 | 522 | 440 | 10,010 | 330 | 6,413 | 3,267 | | | | | Total I | Expenditures & Encumbrances | 522 | 2 |
| C . | | | Funding | schedul | e (000's) | | | | | | | Appro | val Request FY 11 | 330 | 0 |
| WSSC Bonds | 10,972 | 522 | 440 | 10,010 | 330 | 6,413 | 3,267 | | | | | Supple | emental Approval Request | | |
| D. Description & Justification | | | | | | | | | | | | Curre | ent FY (10) | | |
| DESCRIPTION | rription & Justification IPTION s project provides for a facility plan to develop alternatives to address current and future requirements for managing septage and | | | | | | | | | | | | | | |
| | Inds 10,972 522 440 10,010 330 6,413 3,267 Detion & Justification TION TION The plan to develop alternatives to address current and future requirements for managing septage and Oils, Grease discharge facilities in the sanitary district. The plan will address changes and/or revisions to existing facilities or an address changes and/or revisions to existing facilities or an address changes and/or revisions to existing facilities or an address changes and/or revisions to existing facilities or an address changes and/or revisions to existing facilities or an address changes and/or revisions to existing facilities or an address changes and/or revisions to existing facilities or an address changes and/or revisions to existing facilities or an address changes and/or revisions to existing facilities or an address changes and/or revisions to existing facilities or an address changes and/or revisions to existing facilities or an address changes and/or revisions to existing facilities or an address changes and/or revisions to existing facilities or an address changes and/or revisions to existing facilities or an address changes and/or revisions to existing facilities or address changes and address changes and/or revisions to existing facilities or address changes and/or revisions changes ad | | | | | | | | | | | | | ned | |
| | Funding Schedule (000's) Inds 10,972 522 440 10,010 330 6,413 3,267 Ition & Justification Ition Substitue Substitue Substitue Substitue Ition & Grass discharge facilities in the sanitary district. The plan will address changes and/or revisions to existing facilities or an cilities that may be recommended. Outsourcing of portions or the entire process to a privately or publicly owned operation will a of the alternatives considered. The plan will develop separate and distinct reports and recommendations for each county | | | | | | | | | | | | | | |
| be one of the alternatives consid | dered. The | e plan will | develop s | | | ject Completion: P-85% completion Date: December 2 | 2012 | | | | | | | | |
| including outreach programs to p | provide opp | portunities | s for activ | e involver | nent of inf | terested c | sitizens. | | | | | H. Map | Map Reference Code: | | |
| JUSTIFICATION | | | | | | | | | | | | in map | | | |
| Plans & Studies | | | | | | | | | | | | | | | |
| Concept Report Waste Haulers Septage Discharge Facility Stud | Discharges y, JMT & A | s, AMT ar Associates | nd Associ s (Februa | ry Report for | | | | | | | | | | | |
| Specific Data | | | | | | | | | | | | | | | |
| Road Disposal Site, Ritchie Roa discharged are as follows: Sept | d Disposal ic Tank Pu | l site and Imp-Out (\$ | Bladensb Sludge), \ | of waste to be p Pump Out | | | | | | | | | | | |
| Hazardous Materials. FOG was | Prione project provides for a facility plan to develop alternatives to address current and future requirements for managing septage and , Olls, Grease discharge facilities in the sanitary district. The plan will address changes and/or revisions to existing facilities or facilities that may be recommended. Outsourcing of portions or the entire process to a privately or publicly owned operation win ne of the alternatives considered. The plan will develop separate and distinct reports and recommendations for each county ding outreach programs to provide opportunities for active involvement of interested citizens. CATION Is & Studies cept Report Waste Haulers Discharges, AMT and Associates, Inc. Consulting Engineers (August, 2005); Preliminary Report for age Discharge Facility Study, JMT & Associates (February 2008) cific Data ently septage waste is discharged at four locations: Muddy Branch Road Disposal Site in Montgomery County; and Temple Hill d Disposal Site, Ritchie Road Disposal site and Bladensburg Disposal Site in Prince George's County. The types of waste to bu arged are as follows: Septic Tank Pump-Out (Sludge), Waste Holding Tank Discharge (Gray Water); Grease Trap Pump Out G), Bus Holding Tank Discharge (Sewage and Chemicals), Small Food Service Providers (Low Volume FOG Waste), and ardous Materials. FOG wastes should not be returned to the Commission's waste system without treatment. Therefore, means methods to affect and promote this treatment of FOG wastes at the disposal sites will be included in the facility plan. t Change | | | | | | | | | | | | MAP NOT APPLIC | ABLE | |
| Cost Change | | | | | | | | | | | | | | | |
| Not applicable. | | | | | | | | | | | | | | | |
| | Contract No | o. CM436 | 3A06,). | | | | | | | | | | | | |
| <u>OTHER</u> | | T I | | | | | | | | . for the state | | | | | |
| The project scope has remained and construction of three septag | | | | | te for the des | lgn | | | | | | | | | |
| <u>COORDINATION</u> | | | | | | | | | | | | | | | |
| Montgomery County Governmer Montgomery County Departmen Prince George's County Health I | t of Enviro | nmental F | | | | | | | | | d | | | | |
| NOTE This project supports 100% | % System | Improvem | ient. | | | | | | | | | | | | |

| A. Identification a | nd Coding Inform | mation | | 2. Da | te: Octol | oer 1, 200 | 9 | 7. Pre PDI | F Pg.No.: | 8. Req. | Adeq. Pub | . Fac. | E. Annual Operating Budget Impact (00 | 00's) FY of Impact |
|---|---|---|--|--|---|-------------------------------------|--|---|--|--|---|----------------|--|--------------------|
| 1. Project Number | Agency Number | Update | Code | | | | | | | | | | Program Costs Staff | |
| 113805 | S-170.09 | Add | | Revis | ed: Janu | ary 20, 20 | 10 | | | | | | Other Facility Costs Maintenance | |
| 3. Project Name: 7 | Trunk Sewer Reco | onstruction | Program | | | | | 5.Agency: | W | SSC | | | Debt Service | 44035 17 |
| 4. Program: | Sanitation | 6. Planning | g Area: | Bi-Co | unty | | | | | | | | Total Costs | 44035 17 |
| | | | | | | | | | | | | | Impact on Water or Sewer Rate | 95¢ 17 |
| В. | | | E | xpenditu | re Sched | ule (000': | s) | | | | | | F. Approval and Expenditure Data (000 | 's) |
| | | (8) | (9) Thru | (10) Estimate | (11) Total | (12) Year 1 | (13) Year 2 | (14) Year 3 | (15) Year 4 | (16) Year 5 | (17) Year 6 | (18) Beyond | | |
| Cost Elements | | Total | FY '09 | FY '10 | 6 Years | FY '11 | FY '12 | FY '13 | FY '14 | FY '15 | | 6 Years | Date First in Capital Program | FY 11 |
| Planning, Design 8 | & Supervision | 121,768 | | 14,172 | 107,596 | 17,162 | 34,223 | 29,045 | 13,910 | 10,157 | 3,099 | | Date First Approved | FY 11 |
| Land | | | | | | | | | | | | | Initial Cost Estimate | 504,993 |
| Site Improvements | s & Utilities | | | | | | | | | | | | Cost Estimate Last FY | |
| Construction | | 307,476 | | | 307,476 | 16,055 | 91,588 | 94,335 | 58,029 | 40,310 | 7,159 | | Present Cost Estimate | 504,993 |
| Other | | 75,749 | | 2,501 | 73,248 | 5,862 | 22,202 | 21,773 | 12,695 | 8,906 | 1,810 | | Approved Request, Last FY | |
| Total | | 504,993 | | 16,673 | 488,320 | 39,079 | 148,013 | 145,153 | 84,634 | 59,373 | 12,068 | | Total Expenditures & Encumbrances | |
| С. | | | | Funding | Schedul | e (000's) | | | | | | | Approval Request FY 11 | 39,079 |
| WSSC Bonds | | 504,993 | | | 488,320 | | 148,013 | 145,153 | 84,634 | 59,373 | 12,068 | | | |
| D. Description & | lugtification | | | | | | | | | | | | Supplemental Approval Request Current FY (10) | |
| DESCRIPTION | Justification | | | | | | | | | | | | | |
| | | | | fan tha in | 44-0 | G. Status Information | | | | | | | | |
| rehabilitation o | wer Reconstructio of sewer mains 15 | -inches in | diameter | and large | r and their | associate | i, piannir ed manh | oles. | and cons | truction re | quired for i | line | Land Status: Right-of-Way r | nay be required |
| | | | | 0 | | | | | | | | | % Project Completion: P-30% | |
| JUSTIFICATION | | | | | | | | | | | | | Est. Completion Date: FY 2016 | |
| Plans & Studi | ies | | | | | | | | | | | | H. Map Map Reference Code: | |
| | ry Sewer Overflow | v Consent I | Decree (D | December | 7, 2005) | | | | | | | | | |
| Specific Data | | | | | | | | | | | | | | |
| 21-basins by E WSSC shall co | ns of the Consent December 2010, S onduct rainfall, gro em modeling. Wh sting. | Sewer Syst | tem Evalu and flow | ation Sur monitorin | | | | | | | | | | |
| Replacement, five SR3 Plans Northwest Bra approximately | ik Sewer Inspection Rehabilitation Pla s have been subm nch (non-SSES), 215 miles of trunl | an (SR3 Pla nitted to the and Sligo (| an) for ea e EPA and Creek (no | ch basin y d MDE inc n-SSES). | date, SES), | NOT APPLICABLE | | | | | | | | |
| Cost Change | | | | | | | | | | | | | | |
| Not applicable | | | | | | | | | | | | | | |
| STATUS Planning | 9 | | | | | | | | | | | | | |
| existing S-1.01 and larger trun previously inclu- preliminary pla contracts are b | tope was develope 1, Sewer Reconstr 1, Sewers included uded in the S-1.0 ⁻¹ anning level estima bid. The design was by the end of FY 2 | ruction Pro d in WSSC 1, Sewer R ates and a ork for the | ogram in th C's overall Reconstrue re expecte SR3 Plan | he Inform plans for ction Prog ed to chai s pertaini | ation Only sewer rec ram. The nge as the ng to Trur | expenditu expenditu individua | of the CIF on. Expen ures and al basin d reconstru | ² to separa nditures sh schedule lesigns are uction will b | ately ident nown aboy shown in l e complete pegin in F | ify the 15 ve in FY 2 Block B al ed and co Y 2010 ar | -inch diame 010 were pove are nstruction nd is projec | eter | | |

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.

Section 5 - Prince George's County Water Projects

FINANCIAL SUMMARY

(ALL FIGURES IN THOUSANDS)

PRINCE GEORGE'S COUNTY WATER PROJECTS

| AGENCY | PROJECT | EST. | EXPEND | EST. | TOTAL | | EX | PENDITURI | E SCHEDU | LE | | BUDGET | PDF |
|----------|--|--------|--------|--------|--------|--------|--------|-----------|----------|------|------|---------|------|
| NUMBER | NAME | TOTAL | THRU | EXPEND | SIX | YR 1 | YR 2 | YR 3 | YR 4 | YR 5 | YR 6 | REQUEST | PAGE |
| | | COST | 09 | 10 | YEARS | 11 | 12 | 13 | 14 | 15 | 16 | 11 | NUM |
| W-12.02 | Prince George's County HG415 Zone Water Main | 1,074 | 12 | 0 | 1,062 | 69 | 69 | 462 | 462 | 0 | 0 | 69 | 5-3 |
| W-34.02 | Old Branch Avenue Water Main | 10,993 | 70 | 385 | 10,538 | 1,087 | 4,983 | 3,973 | 495 | 0 | 0 | 1,087 | 5-4 |
| W-69.03 | Accokeek Elevated Water Storage Facility | 5,684 | 4,879 | 745 | 60 | 60 | 0 | 0 | 0 | 0 | 0 | 60 | 5-5 |
| W-111.05 | Hillmeade Road Water Main | 3,763 | 497 | 621 | 2,645 | 1,481 | 1,164 | 0 | 0 | 0 | 0 | 1,481 | 5-6 |
| W-119.01 | John Hanson Highway Water Main, Part 1 | 6,368 | 445 | 288 | 5,635 | 242 | 1,881 | 2,347 | 1,165 | 0 | 0 | 242 | 5-7 |
| W-123.16 | Marlboro Meadows System | 20,000 | 15,243 | 272 | 4,485 | 3,076 | 1,409 | 0 | 0 | 0 | 0 | 3,076 | 5-8 |
| W-123.20 | Oak Grove/Leeland Roads Water Main, Part 2 | 12,360 | 924 | 1,432 | 10,004 | 5,716 | 4,288 | | 0 | 0 | 0 | 5,716 | 5-10 |
| W-129.12 | Church Road Water Main & PRV, Part 2 | 683 | 0 | 0 | 683 | 28 | 64 | 285 | 306 | 0 | 0 | 28 | 5-11 |
| W-147.00 | Collington Elevated Water Storage Facility | 9,648 | 534 | 460 | 4,904 | 1,442 | 2,486 | 976 | 0 | 0 | 0 | 1,442 | 5-12 |
| W-147.01 | Marlboro Zone Water Storage Facility | 8,492 | 85 | 89 | 8,318 | 2,755 | 2,415 | 2,415 | 733 | 0 | 0 | 2,755 | 5-13 |
| W-197.00 | DSP & Conceptual Design Water Projects | 13,599 | 2,024 | 1,578 | 9,997 | 1,885 | 2,270 | 3,535 | 1,196 | 803 | 308 | 1,885 | 5-14 |
| W-204.00 | Land & Rights-of-Way Acquisition - Prince | 96 | 0 | 0 | 96 | 76 | 6 | 14 | 0 | 0 | 0 | 76 | 5-20 |
| | George's County | | | | | | | | | | | | |
| | Projects Pending Close-Out | 3,624 | 3,381 | 243 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5-21 |
| | TOTAL PRINCE GEORGE'S COUNTY WATER PROJECTS | 96,384 | 28,094 | 6,113 | 58,427 | 17,917 | 21,035 | 14,007 | 4,357 | 803 | 308 | 17,917 | |

Notes for costs beyond six years:

Includes 3,750 for Project W-147.00, Collington Elevated Water Storage Facility.

Prince George's County Water Projects New Projects Listing (costs in thousands)

| Agency Number | Project Name | Total Project Cost | Budget Year Cost | Page Number |
|------------------|--|--------------------------|------------------------|----------------|
| W-12.02 | Prince George's County HG415 Zone Water Main | \$1,074 | \$69 | 5-3 |
| | TOTALS | \$1,074 | \$69 | |

| 1. Project Number Agency Number W-12.02 | nation | 2. Da | te: Octol | per 1, 200 | 9 7 | . Pre PDI | F Pg.No.: | 8. Req. / | Adeq. Pu | ub. Fac. | E. Annual Operating Budget Impact (000's) | FY of Impact | |
|---|------------------------------|--------------------------------|---------------|----------------|------------------|------------------|------------------|------------------|------------------|-------------------|--|--------------|--|
| W-12.02 | Update (| Code | | , | | | | | | | Program Costs Staff | | |
| | Add | Revis | ed: | | | | | | | | Other Facility Costs Maintenance | 23 15 | |
| 3. Project Name: Prince George's Co | ounty HG4 | 15 Zone Water Ma | ain | | 5 | Agency: | WS | SSC | | | Debt Service | 94 15 | |
| 4. Program: Sanitation 6 | Planning | g Area: Patux | ent P.A. 1 | 5 | | | | | | | Total Costs1 Impact on Water or Sewer Rate | 17 15 | |
| В. | | Expenditu | re Sched | ule (000's | 5) | | | | | | F. Approval and Expenditure Data (000's) | | |
| | (8) | (9) (10) Thru Estimate | (11) Total | (12) Year 1 | (13) Xaar 2 | (14) Xoor 2 | (15) | (16) Voor 5 | (17) Voor 6 | (18) Boyond | | 5/ 44 | |
| Cost Elements | Total | Thru Estimate FY '09 FY '10 | 6 Years | FY '11 | Year 2 FY '12 | Year 3 FY '13 | Year 4 FY '14 | Year 5 FY '15 | Year 6 FY '16 | Beyond 6 Years | Date First in Capital Program | FY 11 | |
| Planning, Design & Supervision | 132 | 12 | 120 | 60 | 60 | | | | | | Date First Approved | FY 11 | |
| Land | | | | | | | | | | | Initial Cost Estimate | 1,074 | |
| Site Improvements & Utilities | | | | | | | | | | | Cost Estimate Last FY | | |
| Construction | 804 | | 804 | | | 402 | 402 | | | | Present Cost Estimate | 1,074 | |
| Other | 138 | | 138 | 9 | 9 | 60 | 60 | | | | Approved Request, Last FY | | |
| Total | 1,074 | 12 | 1,062 | 69 | 69 | 462 | 462 | | | | Total Expenditures & Encumbrances | 12 | |
| C | | Funding | I Schedul | e (000's) | | | | | | | Approval Request FY 11 | 69 | |
| WSSC Bonds | 1,074 | 12 | 1,062 | 69 | 69 | 462 | 462 | | | | | | |
| D Description & Justification | | | | | | | | | | | | | |
| LandIndIndIndIndIndIndIndIndLandImage: Second se | | | | | | | | | | | | | |

| A. Identification a | tification and Coding Information | | | | te [.] Octo | ber 1, 200 | | 7. Pre PD | F Pg.No.: | 8. Req. | Adeq. Pu | ub. Fac. | E. Annual Operating Budget Impact (0 | 00's) | FY of | Impact |
|-----------------------------------|-----------------------------------|---------------------------|-----------------------|----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------|--|-------------------------|-------|----------------------|
| 1. Project Number | Agency Number W-34.02 | r Update Change | | Revis | | , | [| | | | | | Program Costs Staff Other | 400 | ···· | 15 |
| 3. Project Name: (4. Program: | Old Branch Aven | ue Water M 6. Planning | | Clinto | on & Vicin | ity P.A. 81 | | 5.Agency: | W | SSC | | | Facility Costs Maintenance Debt Service Debt Service Total Costs Impact on Water or Sewer Rate | 182 463 645 1¢ | | 15 15 15 15 |
| В. | | | E | Expenditu | ire Scheo | dule (000' | s) | | | | | | F. Approval and Expenditure Data (00 | 0'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 | Date First in Capital Program | · | F | Y 08 |
| Planning, Design & | Supervision | 1,173 | 70 | 350 | 753 | 538 | 130 | 65 | 20 | | | | Date First Approved | L | F | Y 08 |
| Land | | | | | | | | | | | | | Initial Cost Estimate | | 10, | 350 |
| Site Improvements | & Utilities | | | | | | | | | | | | Cost Estimate Last FY | | 10, | 605 |
| Construction | | 8,827 | | | 8,827 | 450 | 4,400 | 3,547 | 430 | | | | Present Cost Estimate | | 10, | 993 |
| Other | | 993 | | 35 | 958 | 99 | 453 | 361 | 45 | | | | Approved Request, Last FY | | ; | 501 |
| Total | | 10,993 | 70 | 385 | 10,538 | 1,087 | 4,983 | 3,973 | 495 | | | | Total Expenditures & Encumbrances | | | 70 |
| С. | | ŀ | | Funding | j Schedu | le (000's) | | | 1 | | | | Approval Request FY 11 | | 1,0 | 087 |
| WSSC Bonds | | 5,497 | 35 | 193 | 5,269 | 543 | 2,492 | 1,986 | 248 | | | | Supplemental Approval Request | | | |
| SDC | | 5.496 | 35 | 192 | 5.269 | 544 | 2,491 | 1,987 | 247 | | | | Current EV (10) | L | | |

D. Description & Justification

DESCRIPTION

This project provides for the planning, design, and construction of approximately 10.600 feet of 24-inch diameter water main and approximately 4,400 feet of 30-inch diameter water main along Old Branch Avenue, from Allentown Road to Piscataway Road.

Service Area Clinton Pressure Zone HG385

JUSTIFICATION

Plans & Studies

General Plan; M-NCP&PC Round 7.0 growth forecasts; WSSC Memorandum dated May 16, 2006.

Specific Data

This project will provide redundancy to a large area of Prince George's County, including the 85,000 customers in the HG 385B and dependent zones. Service to these zones would be severely disrupted with the loss of the Marlboro Road Pressure Reducing Valves or associated piping. The WSSC attempts to provide for average day demands with the loss of any one water system facility and this project will meet that goal for the HG 385B and dependent zones.

Cost Change

Costs were increased for inflation.

STATUS Planning (WSSC Contract No. BL4985A09,).

OTHER

The project scope has remained the same. The project schedule and expenditures shown above in Block B are Order of Magnitude estimates and may change based upon site selection and design constraints.

COORDINATION

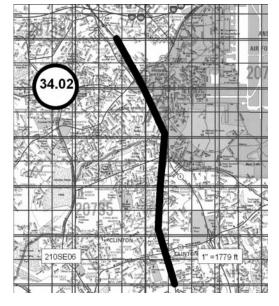
Prince George's County Government and Prince George's County Department of Public Works & Transportation.

NOTE This project supports 50% Growth and 50% System Improvement.

G. Status Information

| Land Status: | Right-of-Way may be required |
|-----------------------|------------------------------|
| % Project Completion: | P-0% |
| Est. Completion Date: | FY 2014 |

H. Map Map Reference Code:



| 1. Project Number Agency Number Update W-69.03 Change 3. Project Name: Accokeek Elevated Water S 4. Program: Sanitation 6. Plannin | Code R torage Facility g Area: A | Date: Octo evised: ccokeek P.A. diture Scheo | 83, Pisca | | 5.Agency: Vicinity P. | | SSC | | | Program Costs Staff Other Other Facility Costs Maintenance | |
|---|---|---|--|---|---|---|--|---|--|--|------------------------------|
| 3. Project Name: Accokeek Elevated Water S 4. Program: Sanitation 6. Plannin B. | torage Facility g Area: A Expen (9) (10 Thru Estim | cokeek P.A. | | | • • | | SSC | | | Facility Costs Maintenance | |
| 4. Program: Sanitation 6. Plannin | g Area: A Expen (9) (10 Thru Estim | liture Scheo | | | • • | | SSC | | | | 477 40 |
| B. | (9) (10 Thru Estim | liture Scheo | | itaway & | Vicinity P. | A. 84 | | | | Debt Service | 477 12 |
| | (9) (10 Thru Estim | | lule (000' | | | | | | | Total Costs Impact on Water or Sewer Rate | 477 12 |
| | Thru Estim | (11) | 1010 (000 | s) | | | | | | F. Approval and Expenditure Data (000's) | |
| (8) | | | (12) | (13) | (14) | (15) | (16) | (17) | (18) | | |
| Cost Elements Total | | | Year 1 FY '11 | Year 2 FY '12 | Year 3 FY '13 | Year 4 FY '14 | Year 5 FY '15 | Year 6 FY '16 | Beyond 6 Years | Date First in Capital Program | FY 03 |
| Planning, Design & Supervision 1,887 | 1,797 | 70 20 | 20 | | | | | | | Date First Approved | FY 03 |
| Land | | | | | | | | | | Initial Cost Estimate | 519 |
| Site Improvements & Utilities | | | | | | | | | | Cost Estimate Last FY | 5,465 |
| Construction 3,692 | 3,082 5 | 78 32 | 32 | | | | | | | Present Cost Estimate | 5,684 |
| Other 105 | | 97 8 | 8 | | | | | | | Approved Request, Last FY | 225 |
| Total 5,684 | 4,879 7 | 45 60 | 60 | | | | | | | Total Expenditures & Encumbrances | 4,879 |
| C . | Fund | ing Schedu | le (000's) | 1 | - | 1 | | 1 | | Approval Request FY 11 | 60 |
| WSSC Bonds 5,684 | 4,879 7 | 45 60 | 60 | | | | | | | Supplemental Approval Request | |
| This project provides for community outree the existing Accokeek Standpipe, construc- standpipe. This is in lieu of extensive and storage inherent in a standpipe as oppose residual and an increase in trihalomethane Service Area Marlboro Pressure Zone H JUSTIFICATION Plans & Studies WSSC Memorandum from Jeff Asner, Prin 2001 Water Production Projections; Wate LLP (April 2006). Specific Data The existing 3.6 MG standpipe in this zone is a single feed zone at the end of the syst that replacing the standpipe with a 750,00 constructed on the existing site. Cost Change Costs were increased for inflation. STATUS Under Construction (WSSC Contract OTHER The project scope has remained the same 2011 are for final landscaping and any out COORDINATION Prince George's County Government, Prin Clinton Zone Water Storage Facility (BE43 NOTE This project supports 100% System | ction of a new p costly mainten d to an elevated s. IG280 Incipal Civil Eng r Storage Volun e is removed fro tem, there is a s 0 gallon elevated t Nos. BE3452/ e. The new tank standing punch ace George's Co 507A06). | essure regul ince for the e l facility, tend heer, to Kare e Criteria Re m service du trong hydrau d tank will su 02 , BE3452 is expected list items. | ating vaul existing fa ls to creat en Wright, eport (Nov uring much lic need fo bstantially 2802). to be plac | t, and de cility which e water of Systems ember 20 n of the y or storag y reduce | emolition o ch, becaus quality pro Ca s Control C 005); Whi rear due to e. Hydrau detention | f the exist e of the la plems, su pacity 75 Group Lea tman Req water qua lic/Quality time. The tober 200 | ing 3.6 m arge volur ch as loss 50,000 Ga der, dated juardt, and ality conce modeling e replacen | illion gallo ne of unu s of chlori illon d March 2 d Associa erns. Sin g has indi nent tank | n (MG) sable ne 001; tes, ce this cated will be <i>n</i> in FY | Land Status: C-89% Est. Completion Date: October 2009 H. Map Map Reference Code: 69.03 69.03 69.03 69.03 69.03 69.03 60.05 60.03 60.05 60. | HOLLY HILL 1" = 465 ft |

| A. Identification and Coding Inform | nation | | 2. Da | te: Octol | ber 1, 200 | 9 | 7. Pre PDI | F Pg.No.: | 8. Req. | Adeq. Pu | ub. Fac. | E. Annual Operating Budget Impact (000's) | FY of Impact |
|---|------------------------------|------------------------|-------------------------|--------------------------|---------------------------|---------------------|---------------------------|----------------------|-------------------------|------------------------|-------------------|---|---------------|
| 1. Project Number Agency Number | Update | Code | Revis | | | | | | | | | Program Costs Staff | |
| W-111.05 | Change | | Revis | eu. | | | | | | | | Other Facility Costs Maintenance | 80 13 |
| 3. Project Name: Hillmeade Road W | ater Main | | | | | : | 5.Agency: | W | SSC | | | Debt Service | |
| 4. Program: Sanitation 6 | Planninę | g Area: | Bowie | e & Vicinit | y P.A. 71 <i>A</i> | ۱. | | | | | | Total Costs Impact on Water or Sewer Rate | 80 13 |
| В. | | E | xpenditu | re Sched | ule (000's | 5) | | | | | | F. Approval and Expenditure Data (000's) | |
| | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) | (18) | | |
| Cost Elements | Total | Thru FY '09 | Estimate FY '10 | Total 6 Years | Year 1 FY '11 | Year 2 FY '12 | Year 3 FY '13 | Year 4 FY '14 | Year 5 FY '15 | Year 6 FY '16 | Beyond 6 Years | Date First in Capital Program | FY 98 |
| Planning, Design & Supervision | 579 | 497 | 40 | 42 | 30 | 12 | | | | | | Date First Approved | FY 98 |
| Land | | | | | | | | | | | | Initial Cost Estimate | 1,898 |
| Site Improvements & Utilities | | | | | | | | | | | | Cost Estimate Last FY | 3,668 |
| Construction | 2,758 | | 500 | 2,258 | 1,258 | 1,000 | | | | | | Present Cost Estimate | 3,763 |
| Other | 426 | | 81 | 345 | 193 | 152 | | | | | | Approved Request, Last FY | 1,407 |
| Total | 3,763 | 497 | 621 | 2,645 | 1,481 | 1,164 | | | | | | Total Expenditures & Encumbrances | 497 |
| С. | | | Funding | Schedul | e (000's) | | | | | | | Approval Request FY 11 | 1,481 |
| SDC | 3,763 | 497 | 621 | 2,645 | 1,481 | 1,164 | | | | | | | |
| D. Description & Justification | | | | | | | | | | | | Supplemental Approval Request | |
| DESCRIPTION This project provides for the desi from Lanham-Severn Road to an | existing 2 | 24-inch di | | | | | | | nain along | Hillmead | de Road | G. Status Information Land Status: Right-of-Way may % Project Completion: D-85% | be required |
| Service Area Bowie Pressure 2 | Zone HG3 | 50e | | | | | | | | | | Est. Completion Date: August 2011 | |
| JUSTIFICATION Plans & Studies | | | | | | | | | | | | | |
| Bowie-Glen Dale Water Storage | Facility Pl | an O'Bri | en & Gere | Engineer | rs Inc (O | ctober 19 | 990). Wate | er Resour | rces Planr | ina Secti | ion | H. Map Map Reference Code: | |
| Memorandum dated May 31, 199 | | | | | | | , | | | ing coon | | SUN SEL | 1 |
| Specific Data | | | | | | | | | | | | | Branch 1 |
| The purpose of this project is to | provide ad | lequate p | ressure ir | the Bowi | e Zone. | | | | | | | WINGATE | S |
| Cost Change | | | | | | | | | | | | | 3 |
| Costs were increased for inflation | | 1 4 7 0 0 4 0 | ~ \ | | | | | | | | | 5 | a a |
| STATUS Final Design (WSSC Contr | act No. B | L1782A90 | o,). | | | | | | | | | See | Surcaro |
| OTHER The project scope has remained and may increase or decrease de delays with outside agencies. | the same | . The pro upon actu | oject sche Jal bids. | dule and e The projec | expenditur ct was dela | es show ayed app | n in Block proximately | B are ba / 20 mon | sed upon hths due to | design es permittir | stimates ng | 111.05 GRENGALE | |
| COORDINATION | | | | | | | | | | | | COLT / CLUB S | STATION |
| Maryland State Highway Adminis Maryland-National Capital Park & Army Corps of Engineers. | stration, Pi & Planning | rince Geo Commis | orge's Cou sion, AM⁻ | inty Gove FRAK Rai | rnment (D Iroad, Mar | epartme yland De | nt of Publi epartment | c Works of Natura | & Transpo al Resourc | ortation), es and U | I.S. | | |
| NOTE This project supports 100% | 6 Growth. | | | | | | | | | | | A CARD AND A CARD A | als 3194 feet |

| A. Identification and Coding Information | ation | | 2. Dat | te: Octol | ber 1, 200 | 9 7 | 7. Pre PDI | Pg.No.: | 8. Req. | Adeq. Pu | ıb. Fac. | E. Annual Operating Budget Impact (000 | 's) FY of Impact |
|--|---|---|---|--|--|--|---|--|---|--|-----------------------|---|------------------|
| 1. Project Number Agency Number | Update | Code | | | , | | | | | | | Program Costs Staff | |
| W-119.01 | Change | | Revis | ea: | | | | | | | | Other Facility Costs Maintenance | 101 15 |
| 3. Project Name: John Hanson Highw | ay Wate | r Main, Pa | art 1 | | | Ę | 5.Agency: | W | SSC | | | Debt Service | 31 15 |
| 4. Program: Sanitation 6. | . Planning | g Area: | Largo | -Lottsford | & Vicinity | P.A. 73, | Collingto | n & Vicini | ty P. A. 7 | 4B | | Total Costs | 132 15 |
| | | | | | | | | | | | | Impact on Water or Sewer Rate | |
| В. | | E | Expenditu | re Sched | ule (000's | 5) | | | | | | F. Approval and Expenditure Data (000's |) |
| | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) | (18) | | - |
| Cost Elements | Total | Thru FY '09 | Estimate FY '10 | Total 6 Years | Year 1 FY '11 | Year 2 FY '12 | Year 3 FY '13 | Year 4 FY '14 | Year 5 FY '15 | Year 6 FY '16 | Beyond 6 Years | Date First in Capital Program | FY 82 |
| Planning, Design & Supervision | 979 | 445 | 250 | 284 | 210 | 36 | 28 | 10 | - | | | Date First Approved | FY 82 |
| Land | | | | | | | | | | | | Initial Cost Estimate | 675 |
| Site Improvements & Utilities | | | | | | | | | | | | Cost Estimate Last FY | 5,964 |
| Construction | 4,616 | | | 4,616 | | 1,600 | 2,013 | 1,003 | | | | Present Cost Estimate | 6,368 |
| Other | 773 | | 38 | 735 | 32 | 245 | 306 | 152 | | | | Approved Request, Last FY | 230 |
| Total | 6,368 | 445 | 288 | 5,635 | 242 | 1,881 | 2,347 | 1,165 | | | | Total Expenditures & Encumbrances | 445 |
| | 0,000 | | | | | 1,001 | 2,547 | 1,105 | | | | | |
| C. | 0.000 | 4 4 5 | | Schedul | · / | 4 004 | 0.047 | 4 405 | | | 1 | Approval Request FY 11 | 242 |
| SDC | 6,368 | 445 | 288 | 5,635 | 242 | 1,881 | 2,347 | 1,165 | | | | Supplemental Approval Request | |
| D. Description & Justification | | | | | | | | | | | | Current FY (10) |] |
| JUSTIFICATION Plans & Studies General Plan; M-NCP&PC Round Specific Data This project will provide service to will provide redundancy to the exis Cost Change Costs were increased to reflect cf STATUS Preliminary Design (WSSC OTHER The project scope has remained t year 2010. The redundancy and y updated prior to construction due have increased due to the change possiblity of an alignment change COORDINATION Maryland State Highway Administ Environmental Resources. NOTE This project supports 100% | the grow sting and nanged si Contract contract water sys to the ler in exisiti to avoid | ving area future de ite condit No. BL70 . The Pla stem relia ngth of tin ing site co significar | of Bowie a evelopmen ions and in 053A86,). anning Gro blity bene he the pro onditions a nt impacts | and to the nts in the l nflation. Dup deterr fits of this ject has b and the ex to the co | e low press Bowie area project w een defer ktensive w mmunity a | sure area a. t this proj ould be ir red. The rork nece and the e | ect was n nmediate project s ssary to u nvironmer | Route 50, ot needec . The des chedule a pdate the nt. | l for capa ign will h nd estima design p | city until a ave to be ated desig lans, and | after the In costs | Est. Completion Date: FY 2014 | |
| | | | | | | | | | | | | PGCO,10 1 inch e | equals 4415 feet |

| A. Identification and C | Coding Inform | ation | | 2 Da | te: Octo | ber 1. 200 |)9 | 7. Pre PDF | Pg.No.: | 8. Req. | Adeq. Pu | ub. Fac. | E. Annual Operating Budget Impact (00 | 0's) | FY of | f Impact |
|-------------------------------|----------------------|------------------|-------------|------------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--|-------------------|-------|----------------|
| 1. Project Number Ager W-1 | ency Number 23.16 | Update Change | | Revis | | , | | | | | | | Program Costs Staff Other | | | |
| 3. Project Name: Marlb | poro Meadows | • | | Uppe | r Marlbord | o & Vicinit | | 5.Agency: | W | SSC | | | Facility Costs Maintenance Debt Service Debt Service | 138 523 661 | | 13 13 13 |
| | | | | | | | | | | | | | Impact on Water or Sewer Rate | 1¢ | | 13 |
| В. | | | E | | ire Sched | · · · · | | | | 1 | - | | F. Approval and Expenditure Data (000 | 's) | | |
| | | (8) | (9) Thru | (10) Estimate | (11) Total | (12) Year 1 | (13) Year 2 | (14) Year 3 | (15) Year 4 | (16) Year 5 | (17) Year 6 | (18) Beyond | Date First in Capital Program | | F | Y 94 |
| Cost Elements | onvision | Total | FY '09 | FY '10 236 | 6 Years | FY '11 275 | FY '12 236 | FY '13 | FY '14 | FY '15 | FY '16 | 6 Years | Date First Approved | | F | Y 94 |
| Planning, Design & Sup | Dervision | 2,515 | 1,768 | 230 | 511 | 2/5 | 230 | | | | | | | | | |
| Land | | | | | | | | | | | | | Initial Cost Estimate | | 6, | ,000 |
| Site Improvements & Ut | tilities | | | | | | | | | | | | Cost Estimate Last FY | | 20, | ,000 |
| Construction | | 16,864 | 13,475 | | 3,389 | 2,400 | 989 | | | | | | Present Cost Estimate | | 20, | ,000 |
| Other | | 621 | | 36 | 585 | 401 | 184 | | | | | | Approved Request, Last FY | | | 388 |
| Total | | 20,000 | 15,243 | 272 | 4,485 | 3,076 | 1,409 | | | | | | Total Expenditures & Encumbrances | | 15, | ,243 |
| С. | | | | Funding | g Schedu | le (000's) | | | | | | | Approval Request FY 11 | | 3, | 076 |
| WSSC Bonds | | 6,000 | 2,194 | | 3,806 | 2,397 | 1,409 | | | | | | Supplemental Approval Request | | | |
| Prince Georges County | Government | 6.000 | 5.049 | 272 | 679 | 679 | | | | | | | Current FY (10) | | | |

D. Description & Justification

DESCRIPTION

Fund Balance

This project provides funding for the acquisition of the Marlboro Meadows community water and sewage treatment plant facilities. Funding also includes: planning, design, and construction of a wastewater pumping station; 250 feet of liner plate tunnel for the force main under Route 301; 9,750 feet of 12-inch diameter force main; 1,840 feet of 24-inch diameter water main, crossing Route 301 through a 54-inch liner plate tunnel; and 560 feet of 16-inch diameter water main for the connection to the existing 16-inch diameter water main in Village Drive located within the Marlboro Meadows subdivision.

Service Area Prince George's Intermediate Pressure Zone HG317

8.000

8.000

JUSTIFICATION

Plans & Studies

General Plan; M-NCP&PC Round 6 growth forecasts.

Specific Data

The Marlboro Meadows community has been experiencing discolored water as a result of the iron content in their private system. The community is also concerned that the cost per capita is significantly more than that paid by WSSC customers. Costs in excess of \$20 million will be contributed by Prince George's County. If the total project costs are less than \$20 million, the savings will be used to reduce the amount of WSSC water and sewer bonds issued for the project, as indicated in the Marlboro Meadows Memorandum of Understanding dated February 24, 2005.

Cost Change

Not Applicable

STATUS Under Construction (WSSC Contract Nos. BL4232A05, BL9613A93, CP4232C05, CP4232D05).

<u>OTHER</u>

The project scope has remained the same. This project was initiated in FY'94 for the acquisition and/or planning, design, construction, modification, reconstruction, and rehabilitation of the existing Marlboro Meadows community water distribution system and sewage treatment plant and collection systems. The present scope of work includes the system acquisition in FY'07; planning, design, and construction of a new water supply main; and planning, design, and construction of a new wastewater pumping station and force main to interconnect the WSSC and Marlboro Meadows systems. The % Project Completion (Design-30%) shown in Block G-Status Information refers to the new wastewater pump station and force main.

COORDINATION

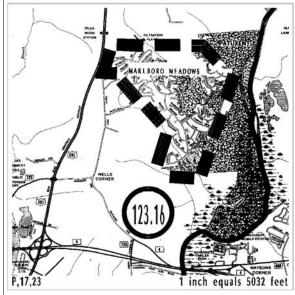
H. Map Map Reference Code:

G. Status Information

% Project Completion:

Est. Completion Date:

Land Status:



Not determined

October 2011

D-30%

Agency Number: W - 123.16 Project Name: Marlboro Meadows System

Prince George's County Government, Maryland Department of Natural Resources, Maryland State Department of Transportation, Chesapeake Bay Critical Areas, Utilities Inc. of Maryland, Local Community Civic Associations and Local, State & Congressional Officials (and a Policy Review Group including members of the Marlboro Meadows community).

NOTE This project supports 100% System Improvement.

| A. Identification and Coding Inform | nation | | 2. Da | te: Octo | ber 1, 200 | | 7. Pre PD | F Pg.No.: | 8. Req. | Adeq. P | ub. Fac. | E. Annual Operating Budget Impact (0 | 00's) | FY of Impa |
|--|--------------|-----------------------|----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------|---|-------------------|------------|
| 1. Project Number Agency Number W-123.20 3. Project Name: Oak Grove/Leelan | | e Vater Mai | Revis | sed: | · | [| 5.Agency: | w | SSC | | | Program Costs Staff Other Facility Costs Maintenance Debt Service Debt Service | 218 510 728 | 1 1 |
| 4. Program: Sanitation | 6. Plannin | g Area: | Mitch | ellville & \ | Vicinity P. | A. 74A | | | | | | Impact on Water or Sewer Rate | 1¢ | 1 |
| В. | Т | E | Expenditu | ire Scheo | dule (000' | s) | T | | | 1 | | F. Approval and Expenditure Data (00 |)'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 | Date First in Capital Program | | FY 02 |
| Planning, Design & Supervision | 980 | 924 | 9 | 47 | 27 | 20 | FTIS | FT 14 | FTID | FT 10 | 0 reals | Date First Approved | | FY 02 |
| Land | | | | | | | | | | | | Initial Cost Estimate | | 4,117 |
| Site Improvements & Utilities | | | | | | | | | | | | Cost Estimate Last FY | | 11,702 |
| Construction | 9,888 | | 1,236 | 8,652 | 4,944 | 3,708 | | | | | | Present Cost Estimate | | 12,360 |
| Other | 1,492 | | 187 | 1,305 | 745 | 560 | | | | | | Approved Request, Last FY | | 1,562 |
| Total | 12,360 | 924 | 1,432 | 10,004 | 5,716 | 4,288 | | | | | | Total Expenditures & Encumbrances | | 925 |
| C. | | | Funding | g Schedu | le (000's) | | | | | | <u>.</u> | Approval Request FY 11 | | 5,716 |
| WSSC Bonds | 6,180 | 462 | 716 | 5,002 | 2,858 | 2,144 | | | | | | Supplemental Approval Request | | |
| SDC | 6,180 | 462 | 716 | 5,002 | 2,858 | 2,144 | | | | | | Current FY (10) | | |

D. Description & Justification

DESCRIPTION

This project provides for the planning, design, and construction of approximately 18,000 feet of 24-inch diameter water main along Oak Grove and Leeland Roads in the Upper Marlboro Planning Area of Prince George's County.

Service Area Prince George's Intermediate Pressure Zone HG317

JUSTIFICATION

Plans & Studies

Intermediate & Marlboro Zones Water Storage Facility (September 1999).

Specific Data

The Intermediate & Marlboro Zones Water Storage Facility siting study recommended the placement of 4 million gallons of storage at the Safeway Distribution Center near the intersection of Leeland Road and Route 301 in Prince George's County. Based upon the final site selection, a 24-inch diameter water main along Oak Grove and Leeland Roads will be needed to connect to the new storage facility and provide adequate hydraulic capacity to the HG317 zone distribution system. This project will also provide a second feed to the Beechtree development west of Route 301 and south of Leeland Road.

Cost Change

Costs were increased for inflation.

STATUS Final Design (WSSC Contract No. BL3192A01,).

OTHER

The project scope has remained the same. Expenditures shown in Block B are design level estimates only and may change depending upon site conditions and actual bids.

COORDINATION

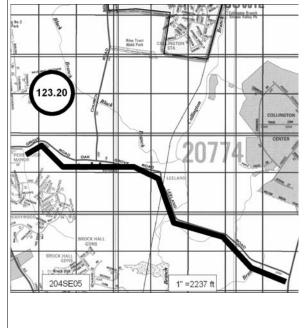
Prince George's County Government and WSSC Project W-147.00, Collington Elevated Water Storage Facility.

NOTE This project supports 50% Growth and 50% System Improvement.

G. Status Information

| Land Status: | Right-of-Way may be required |
|-----------------------|------------------------------|
| % Project Completion: | D-99% |
| Est. Completion Date: | March 2012 |

H. Map Map Reference Code:



| A. Identification and Coding Inform | nation | | 2. Da | te: Octo | ber 1, 200 | 9 | 7. Pre PDF | Pg.No.: | 8. Req. | Adeq. Pu | ub. Fac. | E. Annual Operating Budget Impact (000's) FY of Impact |
|---|---|--|---|--|---|--|---|-------------------------------------|------------------------|------------------------------------|----------------|--|
| 1. Project Number Agency Number | Update | | Revis | | | | | | | | | Program Costs Staff |
| W-129.12 | Change | | | eu. | | | | | | | | Other Facility Costs Maintenance 15 15 |
| 3. Project Name: Church Road Wate | | | | | | | 5.Agency: | W | SSC | | | Debt Service Total Costs 15 |
| 4. Program: Sanitation 6 | Planning | g Area: | Bowie | e & Vicinit | y P.A. 71/ | 4 | | | | | | Total Costs 15 15 Impact on Water or Sewer Rate |
| В. | | E | Expenditu | ire Sched | lule (000' | s) | | | | | | F. Approval and Expenditure Data (000's) |
| | (8) | (9) Thru | (10) Estimate | (11) Total | (12) Year 1 | (13) Year 2 | (14) Year 3 | (15) Year 4 | (16) Year 5 | (17) Year 6 | (18) Beyond | |
| Cost Elements | Total | FY '09 | FY '10 | 6 Years | FY '11 | FY '12 | FY '13 | FY '14 | FY '15 | FY '16 | 6 Years | Date First in Capital Program FY 07 |
| Planning, Design & Supervision | 90 | | | 90 | 24 | 56 | 10 | | | | | Date First Approved FY 07 |
| Land | | | | | | | | | | | | Initial Cost Estimate 589 |
| Site Improvements & Utilities | | | | | | | | | | | | Cost Estimate Last FY 662 |
| Construction | 504 | | | 504 | | | 238 | 266 | | | | Present Cost Estimate 683 |
| Other | 89 | | | 89 | 4 | 8 | 37 | 40 | | | | Approved Request, Last FY 26 |
| Total | 683 | | | 683 | 28 | 64 | 285 | 306 | | | | Total Expenditures & Encumbrances |
| С. | | | Funding | Schedul | le (000's) | | | | | | | Approval Request FY 11 28 |
| SDC | 683 | | | 683 | 28 | 64 | 285 | 306 | | | | |
| D. Description & Justification | | | | | | | | | | | | Supplemental Approval Request Current FY (10) |
| DESCRIPTION | | | | | | | | | | | | |
| Church Road. This project also main in Church Road. Service Area Bowie Pressure J JUSTIFICATION Plans & Studies WSSC Memorandum from Plant NCP&PC Round 6.2 growth fore Specific Data The purpose of this project is to demands. Cost Change Costs were increased for inflatio STATUS Planning (WSSC Contract OTHER The project scope has remained change depending on site-specif WSSC rate supported debt will b COORDINATION Maryland State Highway Adminis NOTE This project supports 1009 | Zone HG3 ning Group casts; Ger provide se n. No. BL42 the same ic conditio se used for stration an | 350e o regardin neral Plar ervice to fi 63A05,). . Expend ons and da r this proj | ng Justific n. uture deve litures sho esign con ect. | ation of Cl elopment own in Blo straints. I | hurch Roa in the HG ock B abov Estimated | ad Water 350e wat ve are pre completi | Main Proje er pressur eliminary p | ect dated e zone, m lanning e | June 7, 2 neeting y | 2005; M- ear 2010 only and i | may | % Project Completion: P-0% Est. Completion Date: Development Dependent Image: Completion Date: Image: Completion Date: Ima |
| | | | | | | | Ę | 5-11 | | | | |

| A. Identification and Coding Info | ormation | | 2. Dat | te: Octo | ber 1, 200 | 9 | 7. Pre PD | F Pg.No.: | 8. Req. | Adeq. P | ub. Fac. | E. Annual Operating Budget Impact (000's) | FY of Impact |
|--|---|--|--|---|--|--|--|--|---|---|---|--|--------------|
| 1. Project Number Agency Number | er Update | Code | | | | | | | | | | Program Costs Staff | |
| W-147.00 | Change | | Revis | eu. | | | | | | | | Other Facility Costs Maintenance | |
| Project Name: Collington Eleva | ated Water St | torage Fa | cility | | | ! | 5.Agency: | W | SSC | | | | |
| 4. Program: Sanitation | 6. Planning | g Area: | Collin | gton & Vi | cinity P.A. | 74B | | | | | | Total Costs 421 Impact on Water or Sewer Rate | |
| | | | | | | | | | | | | | |
| В. | | 1 | xpenditu | | • | | | | | | | F. Approval and Expenditure Data (000's) | |
| | (8) | (9) Thru | (10) Estimate | (11) Total | (12) Year 1 | (13) Year 2 | (14) Year 3 | (15) Year 4 | (16) Year 5 | (17) Year 6 | (18) Beyond | Date First in Capital Program | FY 98 |
| Cost Elements Planning, Design & Supervision | Total 1,209 | FY '09 404 | FY '10 400 | 6 Years 144 | FY '11 109 | FY '12 25 | FY '13 10 | FY '14 | FY '15 | FY '16 | 6 Years 261 | Date First Approved | FY 98 |
| Land | 1,209 | 130 | 400 | 144 | 103 | 25 | 10 | | | | 201 | Initial Cost Estimate | 12,536 |
| Site Improvements & Utilities | 150 | 150 | | | | | | | | | | Cost Estimate Last FY | 9,473 |
| Construction | 7,120 | | | 4,120 | 1,146 | 2,136 | 838 | | | | 3,000 | Present Cost Estimate | 9,648 |
| Other | 1,189 | | 60 | 4,120 | 1,140 | 325 | 128 | | | | 489 | Approved Request, Last FY | 9,040 460 |
| Total | 9,648 | 534 | 460 | 4,904 | 1,442 | 2,486 | | | | | 3,750 | Total Expenditures & Encumbrances | 534 |
| | -, | | | Schedu | | , | | | | | ., | Approval Request FY 11 | 1,442 |
| C. WSSC Bonds | 4,824 | 267 | 230 | 2,452 | e (000 S) 721 | 1,243 | 488 | | | | 1,875 | | 1,172 |
| SDC | 4,824 | 267 | 230 | 2,452 | 721 | 1,243 | | | | | 1,875 | Supplemental Approval Request | |
| D. Description & Justification DESCRIPTION | | | | | | | | of elevate | ed storage | to serve | e the | G. Status Information Land Status: Site acquired | |
| D. Description & Justification | ite selection, selection pha | design, a se include | and constr ed a Com | ruction of munity O | up to 4 m utreach Pi | illion gallo | ons (MG) A portion | | | | | | |
| D. Description & Justification DESCRIPTION This project provides for the s Intermediate Zone. The site s | ite selection, selection pha d Route 301, | design, a se include has been | and constr ed a Com n selected | ruction of munity Ou as the sit | up to 4 m utreach Pi | illion gallo | ons (MG) A portion e tanks. | | eway Dist | | | Land Status:Site acquired% Project Completion:D-0%Est. Completion Date:December 2012 | |
| D. Description & Justification DESCRIPTION This project provides for the s Intermediate Zone. The site s property, at Leeland Road and Service Area Prince George JUSTIFICATION | ite selection, selection pha d Route 301, | design, a se include has been | and constr ed a Com n selected | ruction of munity Ou as the sit | up to 4 m utreach Pi | illion gallo | ons (MG) A portion e tanks. | of the Saf | eway Dist | | | Land Status:Site acquired% Project Completion:D-0%Est. Completion Date:December 2012 | |
| D. Description & Justification DESCRIPTION This project provides for the s Intermediate Zone. The site s property, at Leeland Road and Service Area Prince George JUSTIFICATION Plans & Studies | ite selection, selection pha d Route 301, d's Intermedia | design, a se include has been ate Pressi | and constr ed a Com a selected ure Zone | ruction of munity Ou as the sit HG317 | up to 4 m utreach Pi e for thes | illion galla ogram. e storage | ons (MG) A portion o e tanks. Caj | of the Saf | eway Dist 0 MG | ribution | | Land Status:Site acquired% Project Completion:D-0%Est. Completion Date:December 2012 | |
| D. Description & Justification DESCRIPTION This project provides for the s Intermediate Zone. The site s property, at Leeland Road and Service Area Prince George JUSTIFICATION Plans & Studies Prince George's County High | ite selection, selection pha d Route 301, d's Intermedia | design, a se include has been ate Pressi | and constr ed a Com a selected ure Zone | ruction of munity Ou as the sit HG317 | up to 4 m utreach Pi e for thes | illion galla ogram. e storage | ons (MG) A portion o e tanks. Caj | of the Saf | eway Dist 0 MG | ribution | | Land Status: Site acquired % Project Completion: D-0% Est. Completion Date: December 2012 H. Map Map Reference Code: | 1 |
| D. Description & Justification DESCRIPTION This project provides for the s Intermediate Zone. The site s property, at Leeland Road and Service Area Prince George JUSTIFICATION Plans & Studies Prince George's County High Specific Data The Prince George's High Zon | ite selection, selection pha d Route 301, e's Intermedia Zone Facility he Facility Pla | design, a se include has been ate Pressi ^r Plan (Ap an indicate | and constr ed a Com n selected ure Zone pril 1996); res there is | uction of munity Ou as the sit HG317 Water Sto s a need | up to 4 m utreach Pr te for thes prage Volu | illion galla rogram. e storage ume Crite up to 4 M | ons (MG) A portion o e tanks. Caj eria Repor | of the Saf bacity 4. t (Novemi itional sto | eway Dist 0 MG ber 2005) prage to th | ribution .e Interm | Facility | Land Status: Site acquired % Project Completion: D-0% Est. Completion Date: December 2012 H. Map Map Reference Code: | |
| D. Description & Justification DESCRIPTION This project provides for the s Intermediate Zone. The site s property, at Leeland Road and Service Area Prince George JUSTIFICATION Plans & Studies Prince George's County High Specific Data | ite selection, selection pha d Route 301, e's Intermedia Zone Facility he Facility Pla | design, a se include has been ate Pressi ^r Plan (Ap an indicate | and constr ed a Com n selected ure Zone pril 1996); res there is | uction of munity Ou as the sit HG317 Water Sto s a need | up to 4 m utreach Pr te for thes prage Volu | illion galla rogram. e storage ume Crite up to 4 M | ons (MG) A portion o e tanks. Caj eria Repor | of the Saf bacity 4. t (Novemi itional sto | eway Dist 0 MG ber 2005) prage to th | ribution .e Interm | Facility | Land Status: Site acquired % Project Completion: D-0% Est. Completion Date: December 2012 H. Map Map Reference Code: | |
| D. Description & Justification DESCRIPTION This project provides for the s Intermediate Zone. The site s property, at Leeland Road and Service Area Prince George JUSTIFICATION Plans & Studies Prince George's County High Specific Data The Prince George's High Zon Zone to meet demands to the | ite selection, selection pha d Route 301, e's Intermedia Zone Facility he Facility Pla | design, a se include has been ate Pressi ^r Plan (Ap an indicate | and constr ed a Com n selected ure Zone pril 1996); res there is | uction of munity Ou as the sit HG317 Water Sto s a need | up to 4 m utreach Pr te for thes prage Volu | illion galla rogram. e storage ume Crite up to 4 M | ons (MG) A portion o e tanks. Caj eria Repor | of the Saf bacity 4. t (Novemi itional sto | eway Dist 0 MG ber 2005) prage to th | ribution .e Interm | Facility | Land Status: Site acquired % Project Completion: D-0% Est. Completion Date: December 2012 H. Map Map Reference Code: | Non- |
| D. Description & Justification DESCRIPTION This project provides for the s Intermediate Zone. The site s property, at Leeland Road and Service Area Prince George JUSTIFICATION Plans & Studies Prince George's County High Specific Data The Prince George's High Zon Zone to meet demands to the Cost Change | ite selection, selection pha d Route 301, d's Intermedia Zone Facility ne Facility Pla year 2020. | design, a se include has been ate Presse Plan (Ap an indicate During the | and constr ed a Com a selected ure Zone oril 1996); es there is e siting ph | uction of munity Ou as the sit HG317 Water Sto s a need h ase, this | up to 4 m utreach Pr te for thes prage Volu | illion galla rogram. e storage ume Crite up to 4 M | ons (MG) A portion o e tanks. Caj eria Repor | of the Saf bacity 4. t (Novemi itional sto | eway Dist 0 MG ber 2005) prage to th | ribution .e Interm | Facility | Land Status: Site acquired % Project Completion: D-0% Est. Completion Date: December 2012 H. Map Map Reference Code: | |
| D. Description & Justification DESCRIPTION This project provides for the s Intermediate Zone. The site s property, at Leeland Road and Service Area Prince George JUSTIFICATION Plans & Studies Prince George's County High Specific Data The Prince George's High Zon Zone to meet demands to the Cost Change Not Applicable STATUS Preliminary Design (WS DTHER | ite selection, selection pha d Route 301, e's Intermedia Zone Facility Pla year 2020. | design, a se include has been ate Presse Plan (Ap an indicate During the No. BE17 | and constr ed a Com i selected ure Zone oril 1996); res there is e siting ph 775A96,) | uction of munity Ou as the sit HG317 Water Sto s a need hase, this | up to 4 m utreach Pr te for thes prage Volu to provide project de | illion galla rogram. e storage ume Crite up to 4 M etermined | ons (MG) A portion o e tanks. Caj eria Repor MG of add d the site a | of the Saf bacity 4.4 t (Novemi itional sto and size o | eway Dist 0 MG ber 2005) prage to th f the new | ribution . e Interm facility. | Facility ediate | Land Status: Site acquired % Project Completion: D-0% Est. Completion Date: December 2012 H. Map Map Reference Code: | |
| D. Description & Justification DESCRIPTION This project provides for the s Intermediate Zone. The site s property, at Leeland Road and Service Area Prince George JUSTIFICATION Plans & Studies Prince George's County High Specific Data The Prince George's High Zon Zone to meet demands to the Cost Change Not Applicable STATUS Preliminary Design (WS | ite selection, selection pha d Route 301, d's Intermedia Zone Facility he Facility Pla year 2020. | design, a se include has been ate Presso Plan (Ap an indicate During the No. BE17 . The pro cific condi become b | and constr ed a Com i selected ure Zone oril 1996); es there is e siting ph 775A96,) pject scher itions and petter kno | uction of munity Ou as the sit HG317 Water Sta s a need asse, this dule and o design c wn, this p | up to 4 m utreach Pu e for thes prage Volu to provide project de expenditu ponstraints roject will | illion gallo rogram. e storage ume Crite up to 4 N eterminec | ons (MG) A portion of e tanks. Cap eria Repor MG of add d the site a m in Block et existing with a sin | b the Saf bacity 4. t (Novemi itional sto and size o B are pla needs an gle 2 MG | eway Dist 0 MG ber 2005) brage to th f the new anning lev d allow fo elevated | ribution ee Interm facility. rel estima r adjustr tank now | Eacility ediate ates only nents in and | Land Status: Site acquired % Project Completion: D-0% Est. Completion Date: December 2012 H. Map Map Reference Code: | |
| D. Description & Justification DESCRIPTION This project provides for the s Intermediate Zone. The site s property, at Leeland Road and Service Area Prince George JUSTIFICATION Plans & Studies Prince George's County High Specific Data The Prince George's High Zon Zone to meet demands to the Cost Change Not Applicable STATUS Preliminary Design (WS DTHER The project scope has remain and may change depending u the total storage provided as f | ite selection, selection pha d Route 301, d's Intermedia Zone Facility he Facility Pla year 2020. | design, a se include has been ate Presso Plan (Ap an indicate During the No. BE17 . The pro cific condi become b | and constr ed a Com i selected ure Zone oril 1996); es there is e siting ph 775A96,) pject scher itions and petter kno | uction of munity Ou as the sit HG317 Water Sta s a need asse, this dule and o design c wn, this p | up to 4 m utreach Pu e for thes prage Volu to provide project de expenditu ponstraints roject will | illion gallo rogram. e storage ume Crite up to 4 N eterminec | ons (MG) A portion of e tanks. Cap eria Repor MG of add d the site a m in Block et existing with a sin | b the Saf bacity 4. t (Novemi itional sto and size o B are pla needs an gle 2 MG | eway Dist 0 MG ber 2005) brage to th f the new anning lev d allow fo elevated | ribution ee Interm facility. rel estima r adjustr tank now | Eacility ediate ates only nents in and | Land Status: Site acquired % Project Completion: D-0% Est. Completion Date: December 2012 H. Map Map Reference Code: | |
| D. Description & Justification DESCRIPTION This project provides for the s Intermediate Zone. The site s property, at Leeland Road and Service Area Prince George JUSTIFICATION Plans & Studies Prince George's County High Specific Data The Prince George's High Zon Zone to meet demands to the Cost Change Not Applicable STATUS Preliminary Design (WS DTHER The project scope has remain and may change depending u the total storage provided as f defer action on a possible sect COORDINATION Prince George's County Gove | ite selection, selection pha d Route 301, e's Intermedia Zone Facility Pla year 2020. SSC Contract sed the same pon site-spec uture needs cond elevated | design, a se include has been ate Presso ? Plan (Ap an indicate During the No. BE17 . The pro cific condi become b I tank. Th | and constr ed a Com n selected ure Zone pril 1996); res there is e siting ph 775A96,) pject schee itions and petter kno ne estimat | duction of munity Ou as the sit HG317 Water Sto s a need ase, this dule and o design co wn, this p ted compl | up to 4 m utreach Pr te for thes orage Volu to provide project de expenditu onstraints roject will etion date | illion galla rogram. e storage ume Crite up to 4 M etermined res show . To mee proceed e in Block | ons (MG) A portion of e tanks. Caj eria Repor MG of add d the site a m in Block et existing with a sin c G refers | b the Saf bacity 4.1 t (Novemi itional sto and size o B are pla needs an gle 2 MG to the sch | eway Dist 0 MG ber 2005) rage to th f the new anning lev d allow fo elevated for ledule for | ribution e Interm facility. r adjustr tank now the first | Facility ediate ediate ates only nents in v and tank. | Land Status: Site acquired % Project Completion: D-0% Est. Completion Date: December 2012 H. Map Map Reference Code: | |
| D. Description & Justification DESCRIPTION This project provides for the s Intermediate Zone. The site s property, at Leeland Road and Service Area Prince George JUSTIFICATION Plans & Studies Prince George's County High Specific Data The Prince George's High Zon Zone to meet demands to the Cost Change Not Applicable STATUS Preliminary Design (WS DTHER The project scope has remain and may change depending u the total storage provided as f defer action on a possible sect | ite selection, selection pha d Route 301, d's Intermedia Zone Facility Pla year 2020. I SSC Contract sed the same pon site-spec future needs cond elevated emment, Man Main, Part 2. | design, a se include has been ate Pressi Plan (Ap an indicate During the No. BE17 . The pro cific condi become b I tank. Th yland-Nati | and constr ed a Com i selected ure Zone oril 1996); es there is e siting ph 775A96,) oject schee itions and oetter kno ne estimat | uction of munity Ou as the sit HG317 Water Sto s a need f ase, this dule and c design c wn, this p ted compl ital Park a | up to 4 m utreach Pr te for thes orage Volu to provide project de expenditu onstraints roject will etion date | illion galla rogram. e storage ume Crite up to 4 M etermined res show . To mee proceed e in Block | ons (MG) A portion of e tanks. Caj eria Repor MG of add d the site a m in Block et existing with a sin c G refers | b the Saf bacity 4.1 t (Novemi itional sto and size o B are pla needs an gle 2 MG to the sch | eway Dist 0 MG ber 2005) rage to th f the new anning lev d allow fo elevated for ledule for | ribution e Interm facility. r adjustr tank now the first | Facility ediate ediate ates only nents in v and tank. | Land Status: Site acquired % Project Completion: D-0% Est. Completion Date: December 2012 H. Map Map Reference Code: | |

| Vater or Sewer Rate | 359 15 359 15 |
|--------------------------------|--|
| ts Maintenance Debt Service | 359 15 359 15 |
| Debt Service | 359 15 359 15 |
| Vater or Sewer Rate | |
| | |
| | |
| and Expenditure Data (000's) | |
| , | - |
| Capital Program | FY 98 |
| Approved | FY 98 |
| Estimate | 5,427 |
| ate Last FY | 8,237 |
| st Estimate | 8,492 |
| Request, Last FY | 76 |
| nditures & Encumbrances | 85 |
| equest FY 11 | 2,755 |
| | |
| (10) | |
| nformation | |
| | |
| | negotiation |
| etion Date: FY 2014 | |
| | Estimate Estimate Estimate Estimate Exequest, Last FY Equest, Last FY Equest FY 11 Example for the formation Estimation State of R/W under Completion: D-15% |

as the Prince George's County Vehicle Impound Lot, requires coordination with the Prince George's County Department of Environmental Resources (DER).

Service Area Marlboro Pressure Zone HG280

Capacity 2.1 MG

JUSTIFICATION

Plans & Studies

Prince George's County High Zone Facility Plan (April 1996); Water Storage Volume Criteria Report (November 2005).

Specific Data

The Prince George's High Zone Facility Plan indicates there is a need to provide up to 2.1 MG of additional storage to the Marlboro Zone to meet demands to the year 2020.

Cost Change

Costs were increased for inflation.

STATUS Preliminary Design (WSSC Contract No. BE1775C96,).

OTHER

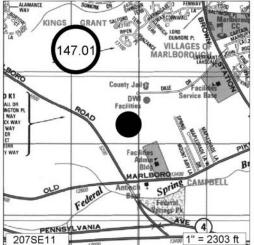
The project scope has remained the same. The project schedule and expenditures shown in Block B are planning level estimates only and may change depending upon the number and type of facilities selected, site conditions, and design constraints. The WSSC will not begin construction of the storage tank until all of the concerns with the use of the proposed site have been resolved. Land costs are included in WSSC Project W-204.00.

COORDINATION

Maryland-National Capital Park & Planning Commission, Maryland Department of the Environment, Prince George's County Department of Environmental Resources (site related) and Prince George's County Department of Public Works & Transportation.

NOTE This project supports 50% Growth and 50% System Improvement.

| G. Status Information | |
|-----------------------|------------------------------|
| Land Status: | Site or R/W under negot |
| % Project Completion: | D-15% |
| Est. Completion Date: | FY 2014 |
| H. Map Map Refere | nce Code: |
| | |
| ALAMANCE DUNKRIK | OR SHARE I DAY FENWAY |
| KINGS GRAN | T SALFORD AN ANTONIAL BARMAN |
| 147.01 | DUNBORE P. |
| | MARLBOROHENT |
| SORO | County Jail and Standard |
| DK1 | DWI Service Base |



| A. Identification and Coding Inform | nation | | 2. Da | te: Octo | ber 1, 200 | 9 7 | 7. Pre PD | F Pg.No.: | 8. Req. | Adeq. Pu | ıb. Fac. | E. Annual Operating Budget Impact (000's) FY of Impact |
|---|---|---|--|---|----------------------------|---|--|--|---|---|-------------------------------------|--|
| 1. Project Number Agency Number | Update | | Revis | | | | | | | | | Program Costs Staff |
| W-197.00 | Change | | | eu. | | | | | | | | Other Facility Costs Maintenance |
| 3. Project Name: DSP & Conceptual | l Design W | /ater Proj | ects | | | Ę | 5.Agency: | WS | SSC | | | Debt Service |
| 4. Program: Sanitation 6 | Planninę | g Area: | Princ | e George' | s County | | | | | | | Total Costs Impact on Water or Sewer Rate |
| В. | | E | xpenditu | ire Sched | lule (000': | s) | | | | | | F. Approval and Expenditure Data (000's) |
| | (8) | (9) Thru | (10) Ectimoto | (11) Total | (12) Year 1 | (13) Xoor 2 | (14) Year 3 | (15) | (16) Voor 5 | (17) Year 6 | (18) Revend | |
| Cost Elements | Total | FY '09 | Estimate FY '10 | 6 Years | FY '11 | Year 2 FY '12 | FY '13 | Year 4 FY '14 | Year 5 FY '15 | FY '16 | Beyond 6 Years | Date First in Capital Program FY 85 |
| Planning, Design & Supervision | 4,180 | 1,079 | 936 | 2,165 | 684 | 629 | 491 | 154 | 165 | 42 | | Date First Approved FY 85 |
| Land | | | | | | | | | | | | Initial Cost Estimate |
| Site Improvements & Utilities | | | | | | | | | | | | Cost Estimate Last FY |
| Construction | 7,907 | 945 | 436 | 6,526 | 953 | 1,345 | 2,584 | 886 | 533 | 225 | | Present Cost Estimate |
| Other | 1,512 | | 206 | 1,306 | 248 | 296 | 460 | 156 | 105 | 41 | | Approved Request, Last FY |
| Total | 13,599 | 2,024 | 1,578 | 9,997 | 1,885 | 2,270 | 3,535 | 1,196 | 803 | 308 | | Total Expenditures & Encumbrances |
| С. | 11 | | Funding | g Schedul | e (000's) | | 1 | 11 | | 1 | | Approval Request FY 11 |
| WSSC Bonds | 456 | 269 | 152 | 35 | 35 | | | | | | | |
| SDC | 4,921 | 523 | 699 | 3,699 | 514 | 442 | 1,942 | 737 | 64 | | | Supplemental Approval Request Current FY (10) |
| Contribution/Other | 8,222 | 1,232 | 727 | 6,263 | 1,336 | 1,828 | 1,593 | 459 | 739 | 308 | | |
| D. Description & Justification <u>DESCRIPTION</u> This PDF provides the necessary conjunction with new development to as Development Services Pro- or final stages of facility planning | nt to reinfo cess (DSF | orce the e | existing sy s. This P | /stem or to DF also p | o avoid fut rovides fu | ture disru nds for pi | ption to th | ne area. S the Conce | uch proje ptual Des | ects are re sign (CD) | phase | Land Status: Not applicable % Project Completion: Not Applicable Est. Completion Date: Not Applicable H. Map Map Reference Code: |
| when this CIP was prepared. Pr the County government represer period. See the pages that follow JUSTIFICATION | eliminary on tatives for | constructi r informat | ion expen ion to aid | diture data in fiscal, i | a for this o | class of p | rojects ha | as been ind | cluded at | the reque | est of | |
| Plans & Studies DSP projects to serve new devel preliminary plan of subdivision of through the Facility Planning Proprojects which require final plann rights-of-way acquisition. Where these projects may require in-ho developed. Specific Data When Conceptual Design project projects, a separate PDF will be will be displayed as stand-alone Cost Change Not Applicable | r a recorde cess or ot ing phase applicabl use review ts progres prepared | ed plat. T ther mech approva e, anticip v and Cou s beyond by the W | The need franisms. I, consulta ated land unty Gove the 30% SSC. The | for various The WSS ant design acquisitio ernment Po design sta ese PDF's | age for fac will includ | in the Co is to allor negotiati re include ew Group cility proje de firm co | w for begi ons, sub- ed in WSS (PRG) in ects and 6 | Design ph inning prel surface inv SC Project iteraction, 60% design n costs an | ase has t iminary d vestigatio W-204.0 as detaile n stage fo d comple | been esta esign for ns, and la 0. Furthe ed design or pipeline | blished and and r, data is | SEE ATTACHED MAPS |
| | | | | | | | | | | | | |

Agency Number: W - 197.00 Project Name: DSP & Conceptual Design Water Projects OTHER

The project scope has remained the same. Implementation of DSP projects listed under this PDF is contingent upon the Applicants meeting the project specified conditions. This requirement indicates that the Applicant is making a "good faith" effort to proceed to construction. Consequently, the implementation schedules of DSP projects are largely beyond the control of the WSSC and, instead, depend upon the actions of the Applicants. All new DSP projects are included with the stipulation that no WSSC rate supported debt will be used for these projects. The expenditure schedule reflected in this PDF is not intended to be a restriction but only an estimate of expenditures based on such considerations as historical trends, market expectations, Applicant schedules, and the number, stage, and scope of projects currently moving through the DSP. This PDF does not include funding for facility planning projects which also require county government review and approval and public interaction, nor does it include non-DSP projects which are beyond the 30% design stage for facility projects or the 60% deign stage for pipeline projects. Construction costs for Conceptual Design projects shown in Block B are very preliminary planning level estimates only, with approximate completion schedules, and may increase or decrease depending on site-specific conditions, design constraints, and cost containment measures. Construction costs for DSP projects are typically based upon preliminary or final design plans. The information in Block F pertains to this PDF in general and not to the individual projects listed on the pages that follow. DSP projects included in the listing that follows are 100% in support of future growth. The growth percentage for Conceptual Design projects vary and, therefore, is indicated on each individual listing as appropriate.

Agency Number: W-197.00 Project Name: DSP & Conceptual Design Water Projects

W-62.04 Clinton Zone Water Storage Facility (BE4507A06)

CD Project. This project provides for the site selection, design, and construction of up to 2.5 million gallons (MG) of water storage to serve the Clinton Pressure Zone. This zone currently includes only one water storage facility (the 3.0 MG Clinton Elevated Tank) which creates operational challenges when the facility must be removed from service for maintenance. Also, the November 2005 Water Storage Volume Criteria Report and the 2001 Water Production Projections for this zone indicate a projected 2.4 MG deficit in 2020. (These storage deficits include the dependent Accokeek Zone.) Status: P-0%; Estimated Study Cost: \$803,000. The site selection phase will include a Community Outreach Program. This project is 100% growth.

W-65.09 Prince George's County High Zone Storage Study (BE3227A02)

CD Project. This project provides for community outreach and facility planning for up to 3 million gallons of finished water storage required for the Prince George's County High Zone. The project includes evaluating two existing tank sites (Camp Springs and St. Barnabas) as well as identifying new tank sites. This project also includes an evaluation of the water storage volume criteria and development of new volume standards. Status: P-62%; Estimated Study Cost: \$912,000. This study will be completed in two phases. The first phase to evaluate the existing water storage criteria and recommend changes in accordance with present day standards has been completed. The second phase for the planning of the water storage required for the Prince George's County High Zone has begun and is estimated to be completed by December 2009. This project is 50% growth and 50% system improvement.

W-84.02 Prince George's High Zone Water Main (BL5020A09)

CD Project. 3,400 feet of 30-inch diameter water main and 9,700 feet of 24-inch diameter water main for service to the Westphalia area. Service Area: Prince George's High Zones, HG 450A and HG 385B pressure zones. Status: P-10%. Estimated Total Project Cost: \$2,894,000. Land costs have not been identified. The estimated completion date has not yet been determined and will be dependent upon the outcome of the Westphalia Sectional Map Amendment. No WSSC rate supported debt will be used for this project. This project is 100% growth.

W-84.03 Smith Home Farms Water Main (DA4358Z06)

7,600 feet of 16-inch diameter water main to serve the Smith Home Farms Subdivision. Water main alignment will be dependent on the road alignments selected by the Westphalia Sector Plan. Service Area: Clinton Zone (385B); Status: P-50%; Estimated Total Project Cost: \$1,765,000. The estimated completion date is developer dependent. No WSSC rate supported debt will be used for this project.

W-93.01 Konterra Town Center East Water Main

4,000 feet of 16-inch water main to serve Konterra Town Center East (DA4623Z07), located in the vicinity of Muirkirk Road and Virginia Manor Road. Service Area: Patuxent, Prince George's County, HG 415-A Pressure Zone; Status: P-25%; Estimated Total Project Cost: \$640,000. The estimated completion date is developer dependent. No WSSC rate supported debt will be used for this project.

W-105.01 Marlton Section 18 Water Main, Lake Marlton Avenue (DA3599A,C&Z03)

6,500 feet of 16-inch diameter water main to provide service to East Marlton, Section 18, along Heathermore Boulevard and Lake Marlton Avenue. Service Area: Clinton, HYG 385-B; Status: D-50%. This project will be completed in four phases. The project design for phase one, 900 feet of 16-inch diameter water main extending in an easterly direction along Heathermore Boulevard (DA3599A03) has been approved and will be constructed under a System Extension Permit at an estimated cost of \$348,000. The remaining phases will be built in succession. Estimated Total Project Cost: \$2,402,000. The estimated completion date is developer dependent. No WSSC rate supported debt will be used for this project.

W-109.09 Central Avenue Pumping Station Expansion

This project will provide for the planning, design, and construction required for the expansion of the existing Central Avenue Water Pumping Station to provide service to Woodmore Towne Centre, a multi-use development including but not limited to: residential, retail, commercial, office, hotel, restaurant, health, bank, and service establishments. The project provides for the installation of an additional water pump and associated hardware and controls at the existing Central Avenue Pumping Station. Capacity: 10 MGD; Service Area: 350F and 317A Water Pressure Zones; Status: P-70%; Estimated Total Project Cost: \$489,000. Estimated completion date is developer dependent. No WSSC rate supported debt will be used for this project.

W-120.14 Lakeview at Brandywine Water Main, Part 1 (DA9381Z92)

1,100 feet of 16-inch water main to serve the Lakeview at Brandywine project. Estimated Total Project Cost: \$178,000. The project will need to be re-evaluated when the Owner/Developer is ready to develop the industrial portion of the project. A new cost estimate and schedule will be required at that time. The estimated completion date is developer dependent. No WSSC rate supported debt will be used for this project. Land costs are included in WSSC Project W-204.00.

Agency Number: W-197.00 Project Name: DSP & Conceptual Design Water Projects

W-120.15 Lakeview at Brandywine Water Main, Part 2 (DA9381Z92)

3,700 feet of 16-inch water main to serve the Lakeview at Brandywine project. Estimated Total Project Cost: \$558,000. The project will need to be re-evaluated when the Owner/Developer is ready to develop the industrial portion of the project. A new cost estimate and schedule will be required at that time. The estimated completion date is developer dependent. No WSSC rate supported debt will be used for this project.

W-120.16 Lakeview at Brandywine Water Main, Part 3 (DA9381Z92)

200 feet of 16-inch water main to serve the Lakeview at Brandywine project. Estimated Total Project Cost: \$45,000. The project will need to be re-evaluated when the Owner/Developer is ready to develop the eastern portion of the project. A new cost estimate and schedule will be required at that time. The estimated completion date is developer dependent. No WSSC rate supported debt will be used for this project.

W-120.18 Mattawoman/Brandywine Commerce Center, Part 6 (DA9381Z92)

4,100 feet of 16-inch diameter water main to provide service to the Mattawoman/Brandywine Commerce Center. Service Area: Piscataway, HG 385 pressure zone; Status: P-0%; Estimated Total Project Cost: \$405,000. The project will need to be re-evaluated when the Owner/Developer approaches the WSSC to restart the project. The current estimate reflects the original plans for the commerce center. A new cost estimate and schedule will be required at restart. The estimated completion date is developer dependent. No WSSC rate supported debt will be used for this project.

W-120.19 Mattawoman/Brandywine Commerce Center, Part 7 (DA9381Z92)

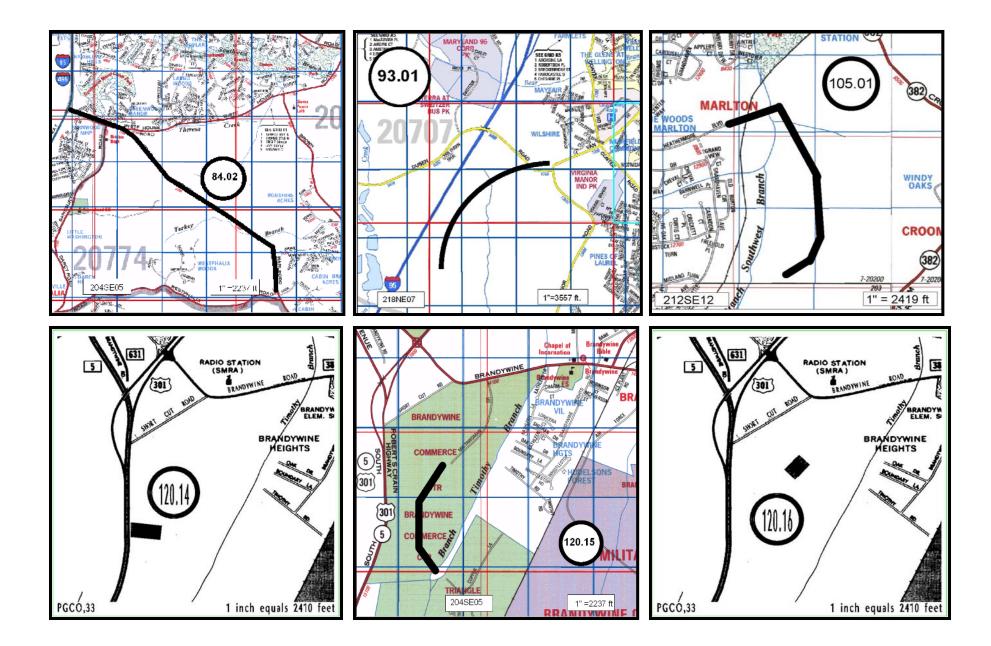
1,730 feet of 16-inch diameter water main to provide service to the Mattawoman/Brandywine Commerce Center. Service Area: Piscataway, HG 385 pressure zone; Status: P-0%; Estimated Total Project Cost: \$243,000. The project will need to be re-evaluated when the Owner/Developer approaches the WSSC to restart the project. The current estimate reflects the original plans for the commerce center. A new cost estimate and schedule will be required at restart. The estimated completion date is developer dependent. No WSSC rate supported debt will be used for this project.

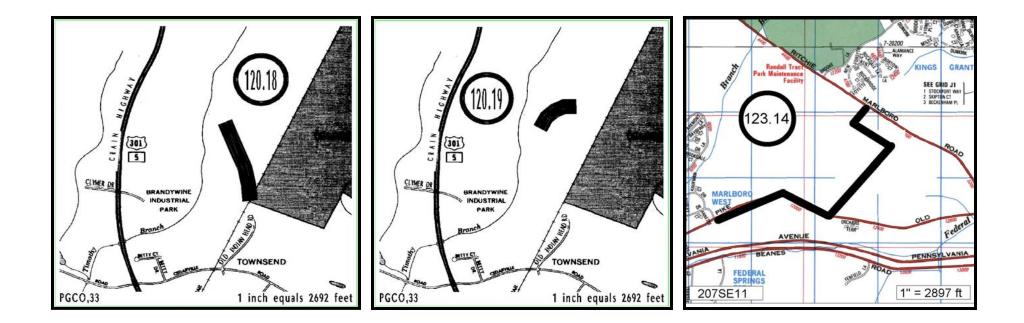
W-123.14 Old Marlboro Pike Water Main (DA3538Z, A,D,E,H&J03)

9,000 feet of 16-inch diameter water main along Old Marlboro Pike and on-site at the applicant's property to serve the Addison Property development. Service Area: Clinton HG 385; Status: C-62%; Estimated Project Cost: \$1,497,000. Design and construction will be performed by the developer under a System Extension Permit. The estimated completion date is developer dependent. No WSSC rate supported debt will be used for this project.

W-137.01 South Potomac Supply Improvement (BR4797A08)

CD Project. This project will provide for the design and construction of a lining for approximately 2.1 miles of an existing 42-inch PCCP water transmission main, and for the construction of a new flow control valve (FCV) vault, piping and apputurtenances, in conformity with the Commission's design guidelines (DG-03). This will provide a second major feed to the HG 290 Zone, which serves southwestern Prince George's County, primarily areas west of Indian Head Highway, including National Harbor. The current primary feed for the zone is approximately 10,600 feet of 42-inch diameter PCCP water main originally installed in the 1970's and consists of lined (PS-5) cylinder pipe and possible class IV wire. The WSSC has confirmed that the condition of the pipe is extremely poor and presents a service liability in the event of failure. The main will need to be replaced or rehabilitated prior to placing back in service. Service Area: Prince George's Potomac Zone, HG 290; Status: P-100%; Estimated Total Design Cost: \$768,000. No WSSC rate supported debt will be used for this project. This project is 100% growth.





| A. Identification and Coding Inform | 2. Date: October 1, 2009 | | | | 7. Pre PDF Pg.No.: 8. Req. Adeq. Pub. Fac. | | | | | E. Annual Operating Budget Impact (000's) FY of Impact | | | | | | |
|--|---|--|---|--|--|---|--|--|--|--|-----------------------------|--|-------|--|--|--|
| 1. Project Number Agency Number | Update | Code | | | , | | | | | | | Program Costs Staff | | | | |
| W-204.00 | Change |) | Revis | ea: | | | | | | | | Other Facility Costs Maintenance | | | | |
| 3. Project Name: Land & Rights-of-V | Vay Acqui | isition - P | rince Geo | rge's Cou | nty | 5 | 5.Agency: | W | SSC | | | Debt Service 2 | 13 | | | |
| 4. Program: Sanitation 6 | 6. Plannin | g Area: | Princ | e George's | s County | | | | | | | Total Costs 2 Impact on Water or Sewer Rate | 13 | | | |
| B. | | | Expenditu | ire Sched | ule (000': | s) | | | | | | F. Approval and Expenditure Data (000's) | | | | |
| - | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) | (18) | | | | | |
| Cost Elements | Total | Thru FY '09 | Estimate FY '10 | Total 6 Years | Year 1 FY '11 | Year 2 FY '12 | Year 3 FY '13 | Year 4 FY '14 | Year 5 FY '15 | Year 6 FY '16 | Beyond 6 Years | Date First in Capital Program | FY 98 | | | |
| Planning, Design & Supervision | | | | | | | - | | - | | | | FY 98 | | | |
| Land | 83 | | | 83 | 66 | 5 | 12 | | | | | Initial Cost Estimate | | | | |
| Site Improvements & Utilities | | | | | | | | | | | | Cost Estimate Last FY | 66 | | | |
| Construction | | | | | | | | | | | | Present Cost Estimate | 177 | | | |
| Other | 13 | | | 13 | 10 | 1 | 2 | | | | | | | | | |
| Total | 96 | | | 96 | 76 | 6 | 14 | | | | | Approved Request, Last FY | 46 | | | |
| | | | | | | | | | | | | Total Expenditures & Encumbrances | | | | |
| С. | | | Funding | g Schedul | e (000's) | | | | | | | Approval Request FY 11 | 111 | | | |
| WSSC Bonds | 53 | | | 53 | 53 | | | | | | | Supplemental Approval Request | | | | |
| SDC | 23 | | | 23 | 23 | | | | | | | Current FY (10) | | | | |
| Contribution/Other | 20 | | | 20 | | 6 | 14 | | | | | 1 | | | | |
| those specific projects. These c JUSTIFICATION Plans & Studies Acquisition needs are determine realignments required by other a Specific Data Consolidation of expenditures for permits the WSSC to respond to restriction, especially for DSP pri- of unpredictable delays for exten requirements for approved projec WSSC an equitable negotiation Cost Change | d by the V gencies, o r land and the unce ojects, wh ided common cts due to | VSSC an or require I rights-of rtainty of nich depen nunity ou minor ali | d are base ments ide -way acqu project-sp nd upon a treach wh gnment cl | ed upon fa ntified with visitions pr vecific imp ctions of t ich impact hanges ide | icility plan hin the De ovides fle lementation he Applica ts the timi entified lat | ning effor evelopmer xibility in o on schedu ant. Othe ng of a plate in the d | ts, alignn nt Service expendin ules. This er conside anned pu lesign pha | nent studi es Proces g funds in s format c erations in urchase, u ase, and t | s (DSP). a specifi hange all clude the nanticipat he need t | c fiscal ye eviates th accomm ted rights | nis Iodation I-of-way | H. Map Map Reference Code: | | | | |
| Not Applicable | | | | | | | | | | | | | | | | |
| STATUS Various Stages of Planning | g & Desia | n | | | | | | | | | | | | | | |
| OTHER The project scope has remained negotiations. When purchases a description form elsewhere in thi NOTE This project supports 45% | the same are comple s program | e. The exp ete, the a n. | ctual cost | will be dis | played in | | | | | | | | | | | |
| | Siowina | | Jy Storn III | Provenier | | | | | | | | | | | | |

PROJECTS PENDING CLOSE-OUT Prince George's County Water Projects (costs in thousands)

| Project Number | Agency Number | Project Name | Estimated Total Cost | Expenditures Thru FY'09 | Estimated Expenditures FY'10 | Remarks |
|-------------------|------------------|-------------------------------------|----------------------------|-------------------------------|------------------------------------|---------------------------------------|
| | W-140.01 | Sheriff Road Water Main Replacement | \$3,624 | \$3,381 | \$243 | Project completion expected in FY'10. |
| | | TOTALS | \$3,624 | \$3,381 | \$243 | |

Section 6 - Prince George's County Sewer Projects

DATE: October 1, 2009

FINANCIAL SUMMARY

(ALL FIGURES IN THOUSANDS)

PRINCE GEORGE'S COUNTY SEWER PROJECTS

| AGENCY | PROJECT | EST. | EXPEND | EST. | TOTAL | | EXF | PENDITUR | E SCHEDI | JLE | | BUDGET | PDF |
|----------|--|---------|--------|--------|---------|--------|--------|----------|----------|-------|-------|---------|------|
| NUMBER | NAME | TOTAL | THRU | EXPEND | SIX | YR 1 | YR 2 | YR 3 | YR 4 | YR 5 | YR 6 | REQUEST | PAGE |
| | | COST | 09 | 10 | YEARS | 11 | 12 | 13 | 14 | 15 | 16 | 11 | NUM |
| S-43.02 | Broad Creek WWPS Augmentation | 85,775 | 8,731 | 5,500 | 70,884 | 2,748 | 13,200 | 30,791 | 22,275 | 1,210 | 660 | 2,748 | 6-3 |
| S-57.92 | Western Branch Facility Upgrade | 43,414 | 1,500 | 2,391 | 39,523 | 17,710 | 17,710 | 4,103 | 0 | 0 | 0 | 17,710 | 6-5 |
| S-57.93 | Western Branch WWTP Enhanced Nutrient Removal | 38,560 | 3,800 | 1,430 | 33,330 | 15,400 | 15,400 | 2,530 | 0 | 0 | 0 | 15,400 | 6-6 |
| S-75.21 | Mattawoman WWTP Upgrades | 2,668 | 322 | 133 | 2,135 | 420 | 755 | 544 | 260 | 78 | 78 | 420 | 6-8 |
| S-77.18 | Parkway WWTP Enhanced Nutrient Removal | 20,719 | 753 | 2,035 | 17,931 | 8,527 | 7,427 | 1,977 | 0 | 0 | 0 | 8,527 | 6-9 |
| S-77.19 | Parkway WWTP Biosolids Facility Plan | 917 | 370 | 460 | 87 | 87 | 0 | 0 | 0 | 0 | 0 | 87 | 6-11 |
| S-96.12 | Piscataway WWTP Enhanced Nutrient Removal | 7,528 | 276 | 869 | 6,383 | 6,383 | 0 | 0 | 0 | 0 | 0 | 6,383 | 6-12 |
| S-187.00 | DSP & Conceptual Design Sewer Projects | 16,900 | 4,121 | 4,959 | 7,564 | 3,168 | 2,010 | 574 | 274 | 678 | 860 | 3,168 | 6-14 |
| S-205.00 | Land & Rights-of-Way Acquisition - Prince George's County | 99 | 0 | 0 | 99 | 35 | 46 | 0 | 0 | 18 | 0 | 35 | 6-21 |
| | Projects Pending Close-Out | 3,636 | 3,636 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6-22 |
| | TOTAL PRINCE GEORGE'S COUNTY SEWER PROJECTS | 220,216 | 23,509 | 17,777 | 177,936 | 54,478 | 56,548 | 40,519 | 22,809 | 1,984 | 1,598 | 54,478 | |

Notes for costs beyond six years:

Includes 660 for Project S-43.02, Broad Creek WWPS Augmentation Includes 78 for Project S-75.21, Mattawoman WWTP Upgrades. Includes 256 for Project S-187.00, DSP & Conceptual Design Sewer Projects.

Prince George's County Sewer Projects New Projects Listing (costs in thousands)

| Agency Number | Project Name | Total Project Cost | Budget Year Cost | Page Number |
|------------------|---|--------------------------|------------------------|----------------|
| S-68.01 | Landover Mall Redevelopment | \$1,108 | \$12 | 6-16 |
| S-131.08 | Preserves of Piscataway WWPS | 500 | 190 | 6-17 |
| S-131.09 | Preserves of Piscataway WWPS Force Main | 77 | 23 | 6-17 |
| | TOTALS | \$1,685 | \$225 | |

| A. Identification and Coding Information | | | | | | 7. Pre PDF Pg.No.: 8. Req. Adeq. Pub. Fac. | | | | | E. Annual Operating Budget Impact (000's) FY of Impact | | | | |
|--|--|---|--|--|---|---|--|--|--|---|--|--|--|--|--|
| Update | Code | | | | | | | | | | Program Costs Staff | | | | |
| Change | | Revis | ea: | | <u> </u> | | | | | | Other | | | | |
| PS Augme | ntation | | | | ! | 5.Agency: | W | SSC | | | Debt Service | 581 | | | |
| 6. Planning | g Area: | South | n Potomac | Sector P. | A. 80 | | | | | | Total Costs Impact on Water or Sewer Rate | 581 1¢ | | | |
| | E | Expenditu | ire Sched | lule (000's |) | | | | | | F. Approval and Expenditure Data (000's) | | | | |
| (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) | (18) | | | | | |
| Total | Thru FY '09 | Estimate FY '10 | l otal 6 Years | Year 1 FY '11 | Year 2 FY '12 | Year 3 FY '13 | Year 4 FY '14 | Year 5 FY '15 | Year 6 FY '16 | Beyond 6 Years | | FY 09 | | | |
| 7,798 | | 2,000 | 5,698 | 2,498 | 2,000 | 750 | 250 | 100 | 100 | 100 | Date First Approved | FY 09 | | | |
| | | | | | | | | | | | Initial Cost Estimate | 80,850 | | | |
| | | | | | | | | | | | Cost Estimate Last FY | 83,277 | | | |
| 70,973 | 8,731 | 3,000 | 58,742 | | 10,000 | 27,242 | 20,000 | 1,000 | 500 | 500 | Present Cost Estimate | 85,775 | | | |
| 7,004 | | 500 | 6,444 | 250 | 1,200 | 2,799 | 2,025 | 110 | 60 | 60 | Approved Request, Last FY | 6,678 | | | |
| 85,775 | 8,731 | 5,500 | 70,884 | 2,748 | 13,200 | 30,791 | 22,275 | 1,210 | 660 | 660 | Total Expenditures & Encumbrances | 8,731 | | | |
| 1 1 | | Funding | Schedu | le (000's) | | 1 | | | | 11 | Approval Request FY 11 | 2,748 | | | |
| 6,863 | 699 | 440 | 5,671 | 220 | 1,056 | 2,463 | 1,782 | 97 | 53 | 53 | Supplemental Approval Request | | | | |
| 78,912 | 8,032 | 5,060 | 65,213 | 2,528 | 12,144 | 28,328 | 20,493 | 1,113 | 607 | 607 | Current FY (10) | | | | |
| he Piscata sments of e er force m f the existin s alternativ ator in the ainage Bas d I/I Analy: cility Plan, wing litigat vs (SSO) C aclude repla C Contract I the same ed upon sit completion | way Was engineerin ain and c ng basins /e is depe event of sin sis (1996 Delon Ha tion: Sec Consent C acement Nos. CM . The pro e specific of prelim | stewater T ng, econo capacity er s allowing endent on power out 5); Broad (ampton & ction V (re Drder Dec of the ma 14231A05 iject sched c condition | reatment mic, envir hancing intermitte approval age. Creek SSE Associate medial Me ree (Civil nifold sys , CM4231 dule and e s, design ign the sc | Plant. The commental a modificatio nt storage from EPA ES (1996 to easures), A Action PJM tem and ac IB05, CM4 expenditure constraint thedule and | Broad (and loca ns at the of exces and MD o 1999); nuary 20 rticle Te 1-04-367 ddition o i231C05 s showr s and ne d expend | Creek WW I commun e pumping ss sewage E. Constru Broad Cre 2007) en, Section f a second f a second | PS Facili ity impact station. A until flow uction cos eek I/I Ana n B.8 (Pur Messite, I surge sy B05 , CP B above r with the be updat | ty Plan (W s, recomr At Piscata s at the pl ts shown alysis and np Statior December stem. 4231C05; eflect plar Maryland ed. WSS | /SSC Pro nends the way WW ⁻ ant allow above als SSES Pr ns- Broad r 7, 2005. | oject TP a So hase II | % Project Completion: D-30% Est. Completion Date: July 2016 H. Map Map Reference Code: | | | | |
| | Update Change PS Augme 5. Planning (8) Total 7,798 70,973 7,004 85,775 6,863 78,912 ations to the Piscata ments of e er force m i the existii s alternativa ator in the ainage Bass d I/I Analy cility Plan, wing litigat clude repl C Contract the same ed upon sit completion | Update Code Change PS Augmentation 5. Planning Area: (8) (9) Total FY 09 7,798 7,798 7,798 7,798 6,863 699 78,912 8,032 6,863 699 78,912 8,032 ations to the Broad the Piscataway Was ments of engineeri er force main and of ithe existing basins is alternative is deputed ations to the Broad the Piscataway Was ments of engineeri er force main and of ithe existing basins is alternative is deputed ation in the event of atinage Basin d I/I Analysis (1996) cility Plan, Delon Has wing litigation: Second clude replacement C Contract Nos. CM the same. The pro- id upon site specific completion of prelim | Update Code Revis Change Revis PS Augmentation Revis S. Planning Area: South Expenditu (8) (9) Thru Estimate Total FY '09 FY '09 FY '10 7,798 2,000 70,973 8,731 3,000 7,004 500 85,775 8,731 5,500 Funding 6,863 699 440 78,912 78,912 8,032 5,060 attions to the Broad Creek Water The Piscataway Wastewater To ments of engineering, econo er force main and capacity er i the existing basins allowing is alternative is dependent on ator in the event of power out ainage Basin d I/I Analysis (1996); Broad C wing litigation: Section V (revisiting SO) Consent Order Dec clude replacement of the mather of the mather of the same. Contract Nos. CM4231A05 the same. The project sched dupon site specific condition condupter sched conditi | Update Code Change Change Revised: PS Augmentation South Potomac 5. Planning Area: South Potomac Expenditure Schect (8) (9) Thru Estimate FY '10 FS imate 7,798 2,000 7,798 2,000 7,0973 8,731 3,000 58,742 7,004 500 6,863 699 440 5,671 78,912 8,032 5,060 65,213 ations to the Broad Creek Wastewater the Piscataway Wastewater Treatment ments of engineering, economic, envir er force main and capacity enhancing the existing basins allowing intermitter s alternative is dependent on approval ator in the event of power outage. atinage Basin d I/I Analysis (1996); Broad Creek SSI cility Plan, Delon Hampton & Associate wing litigation: Section V (remedial Metors (SSO) Consent Order Decree (Civil clude replacement of the manifold sys C Contract Nos. CM4231A05 , CM4237 the same. The project schedule and ead upon site specific conditions, design completion of preliminary design the source of the same and set the same. The project schedule and ead upon site specific conditions, design | Update Code Change PS Augmentation Revised: PS Augmentation South Potomac Sector P. Expenditure Schedule (000's) (a) (a) (9) (10) (11) (12) Total FY '09 FY '10 6 Years FY '11 7,798 2,000 5,698 2,498 70,973 8,731 3,000 58,742 - 7,004 500 6,444 250 85,775 8,731 5,500 70,884 2,748 Funding Schedule (000's) 6,863 699 440 5,671 220 78,912 8,032 5,060 65,213 2,528 ations to the Broad Creek Wastewater Pumping Schedule (000's) the Piscataway Wastewater Treatment Plant. The ments of engineering, economic, environmental a er force main and capacity enhancing modificatio the Piscataway Wastewater Treatment Plant. The ments of engineering, economic, environmental a er force main and capacity enhancing modificatio the evisting basins allowing intermittent storage is alternative is dependent on approval from EPA ator in the event of power outage. tainage Basin d I/I Analysis (1996); Broad Creek SSES (1996 tt cility Plan, Delon Hampton & Associates, Inc. (Jai wing litigation: Section V (remedial Measures), A vs (| Update Code Change Revised: 2S Augmentation South Potomac Sector P.A. 80 Expenditure Schedule (000's) (8) (9) (10) (11) Total FY '09 FY '10 6 Years FY '11 FY '12 7,798 2,000 7,0973 8,731 3,000 58,742 10,000 7,0973 8,731 5,500 70,884 2,758 8,731 5,600 65,414 2500 1,200 85,775 8,731 5,500 70,884 2,748 13,200 Funding Schedule (000's) 6,863 699 440 5,671 220 1,056 78,912 8,032 5,060 65,213 2,528 12,144 ations to the Broad Creek Wastewater Pumping Station at the 'the existing basins allowing intermittent storage of exceets at atervative is dependent on approval from EPA and MD ator in the event of power outage. ations allowing intermittent storage of exceets at aterative is dependent on approval from EPA and | Update Code Change Revised: 2S Augmentation 5.Agency: 2S Augmentation South Potomac Sector P.A. 80 Expenditure Schedule (000's) Expenditure Schedule (000's) (8) (9) (10) (11) (12) (13) (14) Total FY '09 FY '10 6 Year 1 FY '12 FY'12 FY'13 7,798 2,000 5,698 2,498 2,000 750 70,973 8,731 3,000 58,742 10,000 27,242 7,004 500 6,444 250 1,200 2,799 85,775 8,731 5,500 70,884 2,748 13,200 30,791 Funding Schedule (000's) 6,863 699 440 5,671 220 1,056 2,463 78,912 8,032 5,060 65,213 2,528 12,144 28,328 ations to the Broad Creek Wastewater Pumping Station and Force he Piscataway Wastewater Treatment Plant. The Broad Creek WW ments of engineering, economic, environmental and local commun er force main and capacity enhancing modifications at the pumping the existing basins allowing intermittent storage of excess sewage atternative is dependent on approval from EPA and MDE. Construator in the event of power outage. aiternative is dependent on approval from EPA and MDE. Construator in the event of power outage. aiternative is dependent on approval from EPA and MDE. Construator in the event of power outage. aiternative is dependent on approval from EPA and MDE. Construator in the event of power outage. aiternative is dependent on approval from EPA and MDE. Construator in the event of power | Update Code Change 2. Date: Councerns PS Augmentation 5.Agency: W 25 Augmentation 5.Agency: W 3. Planning Area: South Potomac Sector P.A. 80 Expenditure Schedule (000's) (8) (9) (10) (11) (12) Year 1 Year 2 Year 4 Total PY '10 FY '10 6 Years FY '11 FY '12 FY '13 FY '14 7,798 2,000 5,698 2,498 2,000 750 250 70,973 8,731 3,000 58,742 10,000 27,242 20,000 7,004 500 6,444 250 1,200 2,799 2,025 85,775 8,731 5,500 70,884 2,748 13,200 30,791 22,275 Funding Schedule (000's) 6,863 699 440 5,671 220 1,056 2,463 1,782 76,912 8,032 5,060 65,213 2,528 12,144 28,328 20,493 <td and="" colspineering,="" economic,="" environmental="" local<="" td=""><td>Update Code Change Period PS Augmentation S.Agency: VS Augmentation S.Agency: WSSC 3. Planning Area: South Potomac Sector P.A. 80 Expenditure Schedule (000's) (8) (9) (10) (11) (12) (13) (14) Year 3 Year 4 Year 5 7.798 2,000 5,698 2,498 2,000 750 250 100 70,973 8,731 3,000 58,742 10,000 27,242 20,000 1,000 70,973 8,731 5,500 70,884 2,748 13,200 30,791 22,275 1,210 Funding Schedule (000's) 6,863 699 440 5,671 220 1,056 2,463 1,782 97 78,912 8,032 5,060 65,213 2,528 12,144 28,328 20,493 1,113 attions to the Broad Creek Wastewater Pumping Station and Force Main system for cone Piscataway Wastewater Treatment Plant. The Broad Creek WWPS Facility Plan (Mments of engineering, economic, environmental and local comunuity impacts, recommer force main and capacity enhanci</td><td>Update Code Prevised: Revised: S.Agency: *S Augmentation South Potomac Sector P.A. 80 ** Thru Estimate Total ** Total ** Thru ** South Potomac Sector P.A. 80 ** Total ** Total <tr< td=""><td>Update Code Change Provided Revised: *25 Augmentation 5.Agency: WSSC *36 Augmentation 5.Agency: WSSC *37 Augmentation 5.Agency: WSSC *36 Planning Area: South Potomac Sector P.A. 80 *** *** Thru Estimate Total Year 1 Year 2 Year 3 Year 6 Beyond *** Total Y9 FY 116 Year 6 Year 6<td>Update Code Change Control Control Revised: 5.Agency: WSSC 3. Planning Area: South Potomac Sector P.A. 80 Total Costs Saft Expenditure Schedule (000's) (a) (b) (c) (c)</td></td></tr<></td></td> | <td>Update Code Change Period PS Augmentation S.Agency: VS Augmentation S.Agency: WSSC 3. Planning Area: South Potomac Sector P.A. 80 Expenditure Schedule (000's) (8) (9) (10) (11) (12) (13) (14) Year 3 Year 4 Year 5 7.798 2,000 5,698 2,498 2,000 750 250 100 70,973 8,731 3,000 58,742 10,000 27,242 20,000 1,000 70,973 8,731 5,500 70,884 2,748 13,200 30,791 22,275 1,210 Funding Schedule (000's) 6,863 699 440 5,671 220 1,056 2,463 1,782 97 78,912 8,032 5,060 65,213 2,528 12,144 28,328 20,493 1,113 attions to the Broad Creek Wastewater Pumping Station and Force Main system for cone Piscataway Wastewater Treatment Plant. The Broad Creek WWPS Facility Plan (Mments of engineering, economic, environmental and local comunuity impacts, recommer force main and capacity enhanci</td> <td>Update Code Prevised: Revised: S.Agency: *S Augmentation South Potomac Sector P.A. 80 ** Thru Estimate Total ** Total ** Thru ** South Potomac Sector P.A. 80 ** Total ** Total <tr< td=""><td>Update Code Change Provided Revised: *25 Augmentation 5.Agency: WSSC *36 Augmentation 5.Agency: WSSC *37 Augmentation 5.Agency: WSSC *36 Planning Area: South Potomac Sector P.A. 80 *** *** Thru Estimate Total Year 1 Year 2 Year 3 Year 6 Beyond *** Total Y9 FY 116 Year 6 Year 6<td>Update Code Change Control Control Revised: 5.Agency: WSSC 3. Planning Area: South Potomac Sector P.A. 80 Total Costs Saft Expenditure Schedule (000's) (a) (b) (c) (c)</td></td></tr<></td> | Update Code Change Period PS Augmentation S.Agency: VS Augmentation S.Agency: WSSC 3. Planning Area: South Potomac Sector P.A. 80 Expenditure Schedule (000's) (8) (9) (10) (11) (12) (13) (14) Year 3 Year 4 Year 5 7.798 2,000 5,698 2,498 2,000 750 250 100 70,973 8,731 3,000 58,742 10,000 27,242 20,000 1,000 70,973 8,731 5,500 70,884 2,748 13,200 30,791 22,275 1,210 Funding Schedule (000's) 6,863 699 440 5,671 220 1,056 2,463 1,782 97 78,912 8,032 5,060 65,213 2,528 12,144 28,328 20,493 1,113 attions to the Broad Creek Wastewater Pumping Station and Force Main system for cone Piscataway Wastewater Treatment Plant. The Broad Creek WWPS Facility Plan (Mments of engineering, economic, environmental and local comunuity impacts, recommer force main and capacity enhanci | Update Code Prevised: Revised: S.Agency: *S Augmentation South Potomac Sector P.A. 80 ** Thru Estimate Total ** Total ** Thru ** South Potomac Sector P.A. 80 ** Total ** Total <tr< td=""><td>Update Code Change Provided Revised: *25 Augmentation 5.Agency: WSSC *36 Augmentation 5.Agency: WSSC *37 Augmentation 5.Agency: WSSC *36 Planning Area: South Potomac Sector P.A. 80 *** *** Thru Estimate Total Year 1 Year 2 Year 3 Year 6 Beyond *** Total Y9 FY 116 Year 6 Year 6<td>Update Code Change Control Control Revised: 5.Agency: WSSC 3. Planning Area: South Potomac Sector P.A. 80 Total Costs Saft Expenditure Schedule (000's) (a) (b) (c) (c)</td></td></tr<> | Update Code Change Provided Revised: *25 Augmentation 5.Agency: WSSC *36 Augmentation 5.Agency: WSSC *37 Augmentation 5.Agency: WSSC *36 Planning Area: South Potomac Sector P.A. 80 *** *** Thru Estimate Total Year 1 Year 2 Year 3 Year 6 Beyond *** Total Y9 FY 116 Year 6 Year 6 <td>Update Code Change Control Control Revised: 5.Agency: WSSC 3. Planning Area: South Potomac Sector P.A. 80 Total Costs Saft Expenditure Schedule (000's) (a) (b) (c) (c)</td> | Update Code Change Control Control Revised: 5.Agency: WSSC 3. Planning Area: South Potomac Sector P.A. 80 Total Costs Saft Expenditure Schedule (000's) (a) (b) (c) (c) | | |

Agency Number: S - 43.02 Project Name: Broad Creek WWPS Augmentation

COORDINATION

Prince George's County Government, Maryland-National Capital Park & Planning Commission, National Park Service, Maryland Department of the Environment, Prince George's County Department of Environmental Resources and U.S. Environmental Protection Agency, Region III.

NOTE This project supports 92% Growth and 8% System Improvement.

| A. Identification and Coding Inform | nation | | 2. Da | te: Octo | ber 1, 200 |)9 | 7. Pre PD | F Pg.No.: | 8. Req. | Adeq. Pu | ıb. Fac. | E. Annual Operating Budget Impact (0 | 00's) | FY of Impact |
|---|-------------|-------------|------------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---|-------------|--------------|
| 1. Project Number Agency Number | Update | Code | Revis | | | | | | | | | Program Costs Staff | | |
| S-57.92 | Change | | Revis | eu. | | _ | | | | | | Other Facility Costs Maintenance | | |
| 3. Project Name: Western Branch Fa | acility Upg | grade | | | | į | 5.Agency: | W | SSC | | | Debt Service | | 13 |
| 4. Program: Sanitation 6 | 6. Planning | g Area: | | | | | | | | | | Total Costs Impact on Water or Sewer Rate | | 13 |
| | | | | | | | | | | | | | 8¢ | 13 |
| В. | (-) | | | ire Sched | • | | | (| (| () | | F. Approval and Expenditure Data (00 | 0's) | |
| | (8) | (9) Thru | (10) Estimate | (11) Total | (12) Year 1 | (13) Year 2 | (14) Year 3 | (15) Year 4 | (16) Year 5 | (17) Year 6 | (18) Beyond | Date First in Capital Program | | FY 06 |
| Cost Elements | Total | FY '09 | FY '10 | 6 Years | FY '11 | FY '12 | FY '13 | FY '14 | FY '15 | FY '16 | 6 Years | Date First Approved | L | FY 06 |
| Planning, Design & Supervision | 6,180 | 1,500 | 750 | 3,930 | 1,600 | 1,600 | 730 | | | | | Initial Cost Estimate | L | 6,325 |
| Land | | | | | | | | | | | | | L | |
| Site Improvements & Utilities | | | | | 44.500 | 44 500 | 0.000 | | | | | Cost Estimate Last FY | L | 42,220 |
| Construction | 33,424 | | 1,424 | 32,000 | 14,500 | 14,500 | | | | | | Present Cost Estimate | L | 43,414 |
| Other | 3,810 | | 217 | 3,593 | 1,610 | 1,610 | | | | | | Approved Request, Last FY | | 8,190 |
| Total | 43,414 | 1,500 | 2,391 | 39,523 | 17,710 | 17,710 | 4,103 | | | | | Total Expenditures & Encumbrances | | 1,500 |
| С. | 1 | | Funding | g Schedu | le (000's) | | | | | | - | Approval Request FY 11 | | 17,710 |
| WSSC Bonds | 43,414 | 1,500 | 2,391 | 39,523 | 17,710 | 17,710 | 4,103 | | | | | Supplemental Approval Request | | |
| D. Description & Justification | | | | | | | | | | | | Current FY (10) | L | |
| DESCRIPTION | | | | | | | | | | | | | | |
| This project provides for the plan | | | | | | | | | | | | G. Status Information | | |
| aging systems and to continue to activation, biosolids-stabilization | | | | | | | | | | | | Land Status: No land or R/ % Project Completion: D-70% | vv required | 1 |
| chambers, air blower replaceme | | | | | 10001 3931 | em, iaw s | sewaye p | amp statte | n upgrau | es, auuni | onai yin | Est. Completion Date: September 20 | 012 | |
| Service Area Western Branch | Drainage | Basin | | | | | Ca | oacity 30 | .6 MGD | | | | | |
| JUSTIFICATION | | | | | | | | | | | | H. Map Map Reference Code: | | |
| Plans & Studies | | | | | | | | | | | | | | |
| Western Branch Facility Plan, J Facility Plan; Western Branch Er 2007) | | | | | | | | | | | | | | |
| Specific Data | | | | | | | | | | | | | | |
| The plant was originally designed (BNR), relying on the addition of | | | | | WWTP | that does | not utilize | Biologica | al Nitroge | n Remova | al | | | |
| Cost Change | | - | | | | | | | | | | | | |
| Costs were increased for inflatio | n. | | | | | | | | | | | MAP NOT AVAILAB | IE | |
| STATUS Preliminary Design (WSSC | C Contract | t No. CD4 | 173A05,) |). | | | | | | | | | | |
| <u>OTHER</u> | | | | | | | | | | | | | | |
| The project scope has remained estimates and may change base accurate estimate can be made. | ed upon sit | | | | | | | | | | | | | |
| COORDINATION | | | | | | | | | | | | | | |
| Prince George's County Governme Resources and WSSC Project S | | | | | | | | ounty De | partment | of Enviror | nmental | | | |
| NOTE This project supports 1009 | | | | | | | | | | | | | | |
| | - | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

| A. Identification and Coding Inform | | | 2. Da | te: Octo | ber 1, 200 | 9 7 | 7. Pre PD | F Pg.No.: | 8. Req. / | Adeq. Pub. Fac. | E. Ann | ual Operating Budget Impact (000's) | FY of Impact |
|---|---|--|--|---|---|--|---|---|---|---|----------|---|--------------|
| 1. Project Number Agency Number | Update | | Revis | | , | | | | | | Progra | m Costs Staff | |
| S-57.93 | Change | | | | | _ | | | | | Facility | Costs Maintenance | |
| 3. Project Name: Western Branch W | /WTP Enł | nanced N | utrient Re | moval | | 5 | 5.Agency: | W | SSC | | - | Debt Service | |
| 4. Program: Sanitation 6 | 6. Plannin | g Area: | | | | | | | | | | Costs | |
| | | | | | | | | | | | impact | | |
| В. | 1 | E | Expenditu | | - | 5) | [| [| | 1 | F. App | proval and Expenditure Data (000's) | |
| | (8) | (9) Thru | (10) Estimate | (11) Total | (12) Year 1 | (13) Year 2 | (14) Year 3 | (15) Year 4 | (16) Year 5 | (17) (18) Year 6 Beyon | d Date F | irst in Capital Program | FY 07 |
| Cost Elements | Total | FY '09 | FY '10 | 6 Years | FY '11 | FY '12 | FY '13 | FY '14 | FY '15 | FY '16 6 Yea | S | irst Approved | FY 07 |
| Planning, Design & Supervision | 6,400 | 3,800 | 300 | 2,300 | 1,000 | 1,000 | 300 | | | | | | |
| Land | | | | | | | | | | | | Cost Estimate | 70,950 |
| Site Improvements & Utilities | | | | | | | | | | | | stimate Last FY | 38,350 |
| Construction | 29,000 | | 1,000 | 28,000 | 13,000 | 13,000 | 2,000 | | | | Preser | nt Cost Estimate | 38,560 |
| Other | 3,160 | | 130 | 3,030 | 1,400 | 1,400 | 230 | | | | Approv | ved Request, Last FY | 9,900 |
| Total | 38,560 | 3,800 | 1,430 | 33,330 | 15,400 | 15,400 | 2,530 | | | | Total E | Expenditures & Encumbrances | 3,800 |
| C. | | | Funding | Schedu | e (000's) | | | | | | Approv | val Request FY 11 | 15,400 |
| State Aid | 38,560 | 3,800 | 1,430 | 33,330 | 15,400 | 15,400 | 2,530 | | | | Supple | emental Approval Request | |
| D. Description & Justification | | | | | | | | | | | | nt FY (10) | |
| DESCRIPTION | | | | | | | | | | | | | |
| This project provides for the plan | | | | | | | | | | | | tus Information | |
| requirements of MDE's Enhance | | | | | | | | | | | Land S | | |
| identified a Single-Sludge Syster Enhanced Nutrient Removal and | | | | | | | | | | | | ect Completion: D-70% ompletion Date: September 2012 | |
| solution. The newer design and | construct | ion activit | ies will inc | | | | | | | | LSI. CI | • • | |
| various improvements to the exis | | | process. | | | | - | | | | Н. Мар | Map Reference Code: | |
| Service Area Western Branch | Drainage | Basin | | | | | Ca | bacity 30 | .6 MGD | | | | |
| JUSTIFICATION Plans & Studies | | | | | | | | | | | | | |
| Western Branch Enhanced Nutri | ent Remo | val Evalu | ation Joh | nson Mir | miran & T | Thompson | n (May 2 | 005) We | stern Bra | nch Enhanced | | | |
| Nutrient Removal and Facility Up Environment Eligibility Determina | ograde Pro | oject- Eva | luation Ph | | | | | | | | | | |
| Specific Data | | | | | | | | | | | | | |
| As the result of an Executive Ord be upgraded to the "limits of tech Strategy in May, 2003. The ENF | nnology" f | or nutrien | t removal, | the Mary | land Depa | artment of | f the Envi | ronment ir | ntroduced | the ENR | | MAP NOT AVAILABLE | |
| average effluent concentrations goals have been incorporated in The ENR Strategy also calls for | of total nit to the Che | rogen (4 i esapeake | mg/l) and Bay Prog | total pho ram tribut | sphorous ary strateg | (0.3 mg/l) gies Mary |), and per rland ador | mitted des oted in 20 | sign capac 04. | city. These load | | | |
| achieve an annual average efflue quality standards for the Chesap incorporated into NPDES permit | ent nitroge eake Bay | en concer . Once th | ntration of nese stand | 3 mg/l as lards have | a goal, no e been ad | ot a permi | it limit. M e load goa | aryland ha | as propose ENR Strate | ed new water egy will be | | | |
| The ENR Strategy also calls for upgrades. The Chesapeake Bay utility bills paid by Maryland resid design, and construction costs for (BNR) facility to an ENR facility. necessary liquid treatment proce | y Restorat dents and or ENR up The defir | ion Act w business grades, w hition of "e | as passed es. The fi which are deligible", w | in 2004 a unds are t defined ge hile not s | and autho to be used enerally as pecifically | rized the I largely to the cost defined i | collection o fund up of conve n the legi | of a surc to 100% of rting a Bic slation, is | harge on v of eligible logical Nu | water and sewer planning, utrient Removal | | | |
| | | | p.egi | | | | | | | | | | |

Project Name: Western Branch WWTP Enhanced Nutrient Removal

Cost Change

Agency Number: S - 57.93

Costs were increased for inflation.

STATUS Preliminary Design (WSSC Contract No. CD4257A05,).

OTHER

The project scope has remained the same. The project schedule and expenditures shown in Block B are preliminary design level estimates only and may change based upon site specific conditions and design constraints. The expenditure estimates and funding schedule reflect the final cost sharing agreement with the Maryland Department of the Environment.

COORDINATION

Maryland Department of the Environment, Prince George's County Department of Environmental Resources, Local, State & Congressional Officials, Patuxent River Commission and WSSC Project S-57.92, Western Branch Facility Upgrade.

NOTE This project supports 100% Environmental Regulation.

| A. Identification and Coding Inform | mation | | 2. Da | te: Octo | ber 1, 200 | 09 7 | . Pre PD | F Pg.No.: | 8. Req. | Adeq. Put | . Fac. | E. Annual Operating Budget Impact (000's) | FY of Impact |
|---|--|--------------------------------------|--------------------------|--------------------------|---------------------------|--|------------------------|---------------------------|-------------------------|------------------------------|-------------------|--|--------------|
| 1. Project Number Agency Number | Update | Code | | | | | | | | | | Program Costs Staff | |
| S-75.21 | Change |) | Revis | ea: | | | | | | | | Other Facility Costs Maintenance | |
| 3. Project Name: Mattawoman WW | TP Upgrad | des | | | | 5 | Agency: | W | SSC | | | Debt Service | |
| 4. Program: Sanitation | 6. Plannin | g Area: | | | | dywine & \ ity P. A. 8 [,] | | . A. 85A, (| Cedarville | & Vicinity | P. A. | Total Costs | |
| В. | | E | Expenditu | ire Scheo | lule (000': | s) | | | | | | F. Approval and Expenditure Data (000's) | |
| | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) | (18) | | |
| Cost Elements | Total | Thru FY '09 | Estimate FY '10 | Total 6 Years | Year 1 FY '11 | Year 2 FY '12 | Year 3 FY '13 | Year 4 FY '14 | Year 5 FY '15 | Year 6 FY '16 | Beyond 6 Years | Date First in Capital Program | FY 08 |
| Planning, Design & Supervision | 118 | 30 | 52 | 29 | 7 | 3 | 3 | 2 | 7 | 7 | 7 | Date First Approved | FY 08 |
| Land | | | | | | | | | | | | Initial Cost Estimate | 760 |
| Site Improvements & Utilities | | | | | | | | | | | | Cost Estimate Last FY | 3,304 |
| Construction | 2,527 | 292 | 80 | 2,085 | 409 | 745 | 536 | 255 | 70 | 70 | 70 | Present Cost Estimate | 2,668 |
| Other | 23 | | 1 | 21 | 4 | 7 | 5 | 3 | 1 | 1 | 1 | Approved Request, Last FY | 485 |
| Total | 2,668 | 322 | 133 | 2,135 | 420 | 755 | 544 | 260 | 78 | 78 | 78 | Total Expenditures & Encumbrances | 322 |
| С. | | | Funding | I Schedu | le (000's) | | | | | | | Approval Request FY 11 | 420 |
| WSSC Bonds | 2,668 | 322 | 133 | 2,135 | 420 | 755 | 544 | 260 | 78 | 78 | 78 | | |
| D. Description & Justification | | | | | | | | | | | | Supplemental Approval Request Current FY (10) | |
| DESCRIPTION | | | | | | | | | | | | | |
| This project provides for WSSC | 's share of | the evalu | lation des | sian and | constructi | on of capi | tal projec | ts to upar | ade Charl | es Countv | 's | G. Status Information | |
| Mattawoman Wastewater Treatr | ment Plant | t. Current | projects | include: C | Grit System | n Re-confi | iguration, | Influent/E | Effluent Pu | | | Land Status: Public/Agency owned la | ind |
| Upgrades, Plant Automation, Ele | ectrical Sy | stem Rep | lacement | , Sewer I/ | I Project, | Driveway/ | Parking L | _ot Improv | /ements. | | | % Project Completion: On-Going | |
| Service Area Mattawoman Dra | ainage Ba | sin | | | | | Ca | | | VSSC in to | | Est. Completion Date: On-Going | |
| | | | | | | | | pla | ant capac | ty of 20 M | GD | H. Map Map Reference Code: | |
| JUSTIFICATION Plans & Studies | | | | | | | | | | | | | |
| Agreement dated October 22, 1 | 980, and A | greemen | t Addend | um No. 1 | (April 15, | 2004). | | | | | | | |
| Specific Data Prior evaluations of equipment a | and structu | ural faciliti | os conclu | dad tha n | ood oviete | d for varia | | do projoc | to A furth | or thorow | ab | | |
| evaluation of the Head Works, In specific scope of hydraulic, cont efficiency of operation and main wet weather flows. | nfluent/Eff trol, capac | luent Pum ity, and sa | nps, and I afety upgr | nfluent W ades to th | et Well wa ne Influent | as also de t/Effluent F | emed ne Pump Sta | cessary in ition. Plar | n order to ht Automa | identify the tion will im | prove | | |
| Cost Change | | | | | | | | | | | | | |
| The expenditure schedule reflect | ts the late | st informa | ation prov | ided by C | harles Co | unty. | | | | | | MAP NOT AVAILABLE | |
| STATUS Not Applicable (WSSC Co | ontract No. | CB35558 | 303,). | | | | | | | | | | |
| <u>OTHER</u> | | | | | | | | | | | | | |
| The project scope has remained of the WWTP capacity, and pay costs will be added to this project proportionate cost share decrea This project is expected to contin | s a propor ct. Beginn sed from 2 | tionate sh ing in FY 20% to 15 | are of ca 2007, the | pital expe total plar | nses. As nt capacity | new upgra / increase | ade sub-p d from 15 | orojects and MGD to 2 | re added, 20 MGD, | the associ and WSS(| ated | | |
| COORDINATION | | | | | | | | | | | | | |
| Charles County Government (De Mattawoman WWTP Enhanced | | | nning & G | rowth Ma | nagement | t, and Fisc | al Servic | es) and W | /SSC Pro | ect S-75.1 | 7, | | |
| NOTE This project supports 1009 | % System | Improven | nent. | | | | | | | | | | |
| | | | | | | | | | | | | | |

| A. Identification and Coding Inform | mation | | 2. Da | te: Octo | ber 1, 200 |)9 7 | 7. Pre PD | F Pg.No.: | 8. Req. | Adeq. P | ub. Fac. | E. Annual Operating Budget Impact (000's) | FY of Impact |
|--|---|---|---|---|--|---|---|---|--|--|--|--|--------------|
| 1. Project Number Agency Number | Update | Code | | | | | | | | | | Program Costs Staff | |
| S-77.18 | J | | | sea: | | | | | | | | | |
| 3. Project Name: Parkway WWTP I | Enhanced | Nutrient F | Removal | | | 5 | 5.Agency: | W | SSC | | | Debt Service | |
| f. Project Number (genesy Number update) 2. Data (2. Data (2. Data)) 2. Project Number (percent) 2. Project Number (percent) | | | | | | | | | | | | | |
| В. | | E | Expenditu | ure Sched | lule (000': | s) | | | | | | F. Approval and Expenditure Data (000's) | |
| | (8) | | | | | | | | | | | | FY 07 |
| | | FY '09 | FY '10 | 6 Years | FY '11 | FY '12 | FY '13 | | | | | | |
| Planning, Design & Supervision | 3,859 | 753 | 850 | 2,256 | 752 | 752 | 752 | | | | | | FY 07 |
| | | | | | | | | | | | | | 11,971 |
| Site Improvements & Utilities | | | | | | | | | | | | | 25,285 |
| Construction | 15,045 | | 1,000 | 14,045 | 7,000 | 6,000 | 1,045 | | | | | Present Cost Estimate | 20,719 |
| Other | 1,815 | | 185 | 1,630 | 775 | 675 | 180 | | | | | Approved Request, Last FY | 6,180 |
| Total | 20,719 | 753 | 2,035 | 17,931 | 8,527 | 7,427 | 1,977 | | | | | Total Expenditures & Encumbrances | 753 |
| С. | | | Funding | g Schedu | le (000's) | | 1 | | | | | Approval Request FY 11 | 8,527 |
| | 980 | 36 | 96 | 848 | 403 | 351 | 94 | | | | | Supplemental Approval Request | |
| State Aid | 19,739 | 717 | 1,939 | 17,083 | 8,124 | 7,076 | 1,883 | | | | | | |
| This project provides for the pla requirements of MDE's Enhance Bardenpho configuration with m secondary clarifiers are also pro- profile. Service Area Parkway Draina JUSTIFICATION Plans & Studies ENR Alternatives for Parkway V Maryland Department of the En- Specific Data As the result of an Executive Or be upgraded to the "limits of tee Strategy in May, 2003. The EN average effluent concentrations goals have been incorporated in The ENR Strategy also calls for achieve an annual average efflu quality standards for the Chesan incorporated into NPDES permi The ENR Strategy also calls for upgrades. The Chesapeake Ba utility bills paid by Maryland resi design, and construction costs for | ed Nutrient ethanol feo posed for ge Basin VWTP, Ga vironment der issued chnology" for R Strategy of total nit to the Che wastewate peake Bay ts as enfor the creation by Restorat dents and for ENR up . The defir | I Remova ed capabi nitrogen i nitrogen i nitrogen i nitrogen i ligibility I by the G or nutrien or calls for rogen (4 esapeake er treatme en concer . Once the ceable ef on of an E tion Act w business ogrades, w | II (ENR) P ility in the removal. ming (Jun Determin tovernor of t removal assigning mg/l) and Bay Prog ent plants ntration of nese stand fluent lim ENR grant es. The f which are eligible", v | rogram. T post-anox A new pur e, 2005); ' ation Letter f Maryland , the Mary "load goat total pho uram tribut to continu 3 mg/l as dards have ts. The m program d in 2004 si unds are ti defined go vhile not s | The prelim tic zones f mping sta WSSC Pr er, (June 1 d in Nover land Depa ils" to mur sphorous ary strate ie optimiz a goal, no e been ad hore string to provide and autho to provide and autho to be used enerally as pecifically | eliminary rec for denitri tion will a eliminary (0, 2009). mber, 200 artment of nicipal wa (0.3 mg/l) gies Mary ing nutrie of a perm lopted, the gent conce e funding f vrized the d largely to s the cost of defined i | ommenda fication. I lso be rec Engineer 02 calling f the Envi istewater), and per vland adop nt remova it limit. M e load goa entration g for the ner collection o fund up t of conve in the legi | ation is to Denitrifica Juired due ing Report for Maryla for Maryla for Maryla treatment mitted de bted in 20 al perform laryland h als of the goals will cessary w of a surc to 100% rting a Big slation, is | supplemention filters to the plate to the plate to the plate to the plate t, (Septer and waste ntroduced plants basising capa 04. ance and as propose ENR Stra remain as vastewate charge on of eligible blogical N | ent the cu s following ant's hyd nber, 200 water plat I the ENF ased on a city. The attempt sed new t tegy will s goals. r treatme water an planning utrient Re | Irrent g the raulic (08); (08) | % Project Completion: D-70% Est. Completion Date: FY 2013 H. Map Map Reference Code: | uired |
| Cost Change | | | | | | U | | | | | | | |
| Costs were revised to reflect the | e current c | onstructio | on cost es | timate. | | | | | | | | | |

Agency Number: S - 77.18 Project Name: Parkway WWTP Enhanced Nutrient Removal

STATUS Preliminary Design (WSSC Contract No. CD4259A05,).

<u>OTHER</u>

The project scope has remained the same. Expenditures shown in Block B are based on contracted planning and design costs, and updated preliminary construction cost estimates. The expenditure estimates and funding schedule reflect the final cost sharing agreement with the Maryland Department of the Environment.

COORDINATION

Prince George's County Government, Maryland Department of the Environment, Prince George's County Department of Environmental Resources and Patuxent River Commission.

NOTE This project supports 100% Environmental Regulation.

| A. Identification and Coding Inform | nation | 2 | Date: | Octob | per 1, 2009 | 7. Pre PD | F Pg.No.: | 8. Req. | Adeq. Pu | ub. Fac. | E. Annual Operating Budget Impact (000's) | FY of Impact |
|---|--|---|--|--|---|--|--|--|---|---|--|-----------------------|
| 1. Project Number Agency Number | Update Coo | de | | | , | | | | | | Program Costs Staff | |
| S-77.19 | Change | R | Revised: | : | | | | 1 | | | Other Facility Costs Maintenance | |
| 3. Project Name: Parkway WWTP B | iosolids Facili | ty Plan | | | | 5.Agency | : W | SSC | | | Debt Service 48 | 12 |
| 4. Program: Sanitation 6 | Planning Ar | rea: S | South La | aurel - N | Montpelier P.A. | 62 | | | | | Total Costs | 12 |
| В. | | Exper | nditure | Sched | ule (000's) | | | | | | F. Approval and Expenditure Data (000's) | |
| | | (9) (10 | | (11) | (12) (13 | | (15) | (16) | (17) | (18) | | T (a a |
| Cost Elements | | ⁻hru Estin Y '09 FY | | Total Years | Year 1 Year FY '11 FY ' | | Year 4 FY '14 | Year 5 FY '15 | Year 6 FY '16 | Beyond 6 Years | Date First in Capital Program | FY 09 |
| Planning, Design & Supervision | 846 | 370 | 400 | 76 | 76 | | | | | | Date First Approved | FY 09 |
| Land | | | | | | | | | | | Initial Cost Estimate | 288 |
| Site Improvements & Utilities | | | | | | | | | | | Cost Estimate Last FY | 550 |
| Construction | | | | | | | | | | | Present Cost Estimate | 917 |
| Other | 71 | | 60 | 11 | 11 | | | | | | Approved Request, Last FY | 225 |
| Total | 917 | 370 | 460 | 87 | 87 | | | | | | Total Expenditures & Encumbrances | 370 |
| С. | | Fun | dina Sa | chedul | e (000's) | | | | | | Approval Request FY 11 | 87 |
| WSSC Bonds | 917 | | 460 | 87 | 87 | | | | | | | |
| D. Description & Justification | | | | | | | | | | | Supplemental Approval Request Current FY (10) | |
| This project provides for an evaluaging equipment, improvements Service Area Parkway Drainag JUSTIFICATION Plans & Studies Memorandum from the Production Specific Data Currently, the facility utilizes cen parallel configurations, which cal equipment such as plow blender stabilized conveyors and a lime s Cost Change The cost of this project has increased the facility plan. STATUS Facility Planning (WSSC CO OTHER The project scope has remained magnitude construction cost esti COORDINATION Prince George's County Governin Parkway WWTP Enhanced Nutr | to the gravity ge Basin on Team date trifuges to dev nnot be opera s and belt cor stabilized sluc eased because contract Nos. (the same. Ex mate of \$5.6 (ment, Prince 0 | thickening d April 27, water appro- ted simulta weyors. Til dge storage e a definitiv CP4643A0 cpenditures million may George's C | 2007 2007 2007 2007 2007 2007 2007 2007 | n, and ir ely 1,500 y. One er side c he of wor 4643B07 h in Bloc ge deper | D wet tons of so side consists of consists of one rk has been es 7). k B are for the nding on site sp | b the dewate Ca lids/month. f three 35 ye centrifuge, li ablished an ecific condit | The centri pacity 7. The centri ear old centra me screw d a contra nd the factions and o | m. 5 MGD fuges are htrifuges a conveyor ct has bee diity plann design con | installed and suppo s, a pugm en execut ing. An c nstraints. | in two orting nill, lime ted for | G. Status Information Land Status: Not Applicable % Project Completion: P-15% Est. Completion Date: FY 2011 H. Map Map Reference Code: | |

| A. Identification and Coding Inform | nation | | 2. Da | te: Octo | ber 1, 200 |)9 | 7. Pre PD | F Pg.No.: | 8. Req. | Adeq. Pu | ub. Fac. | E. Ann | ual Oper | rating Bud | lget Impact (0 | 00's) | FY of Impact |
|--|--------------|-------------|------------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------|-------------------|-------------------|---------------------|-----------|--------------|
| 1. Project Number Agency Number | Update | Code | | | , | | | | | | | Progra | m Costs | Staff | | | |
| S-96.12 | Change | | Revis | | | | | | | | | Facility | Costs | Other Maintena | | | |
| 3. Project Name: Piscataway WWTF | P Enhance | ed Nutrien | nt Remova | al | | | 5.Agency | W | SSC | | | | | Debt Serv | vice | | |
| 4. Program: Sanitation 6 | 6. Planning | g Area: | Accol | keek P.A. | 83 | | | | | | | | | | Data | | |
| | | | | | | | | | | | | Impact | on wate | I OI Sewei | Rate | | |
| В. | 1 | E | Expenditu | ire Schec | lule (000' | s) | 1 | I | | 1 | 1 | F. App | roval an | d Expendi | iture Data (00 | 0's) | |
| | (8) | (9) Thru | (10) Estimate | (11) Total | (12) Year 1 | (13) Year 2 | (14) Year 3 | (15) Year 4 | (16) Year 5 | (17) Year 6 | (18) Beyond | Date F | irst in Ca | pital Progr | am | | FY 07 |
| Cost Elements | Total | FY '09 | FY '10 | 6 Years | FY '11 | FY '12 | FY '13 | FY '14 | FY '15 | FY '16 | 6 Years | | irst Appre | | am | L | FY 07 |
| Planning, Design & Supervision | 1,082 | 276 | 256 | 550 | 550 | | | | | | | | Cost Estir | | | <u> </u> | |
| Land | | | | | | | | | | | | | | | | L | 2,279 |
| Site Improvements & Utilities | | | | | | | | | | | | | stimate L | | | L | 4,506 |
| Construction | 5,500 | | 500 | 5,000 | 5,000 | | | | | | | | t Cost E | | | | 7,528 |
| Other | 946 | | 113 | 833 | 833 | | | | | | | Approv | ed Requ | est, Last F | Ϋ́ | | 2,749 |
| Total | 7,528 | 276 | 869 | 6,383 | 6,383 | | | | | | | Total E | xpenditu | res & Encu | umbrances | | 276 |
| C . | | | Funding | g Schedu | le (000's) | | | | | | | Approv | al Reque | est FY 11 | | | 6,383 |
| State Aid | 7,528 | 276 | 869 | 6,383 | 6,383 | | | | | | | Supple | mental A | pproval Re | eauest | | |
| D. Description & Justification | | | | | | | | | | | | Currer | nt FY (10 |) | | L | |
| DESCRIPTION | | | | | | | | | | | | | | | | | |
| This project provides for the plan | | | | | | | | | | | | | tus Infor | mation | | | |
| requirements of MDE's Enhance storage and feed facilities for the | | | | rogram. | The curre | nt recom | mendatior | n is to prov | ide supp | emental o | carbon | Land S | | | No land or R/ | W require | ed |
| Service Area Piscataway Cree | - | | piocess. | | | | | | | | | - | ect Compompletior | | D-95% April 2011 | | |
| JUSTIFICATION | ek Drainay | e Dasin | | | | | | | | | | | | | • | | |
| Plans & Studies | | | | | | | | | | | | Н. Мар | Мар | Referenc | e Code: | | |
| ENR Alternatives for Piscataway | / WWTP, (| Gannett F | leming (J | une, 2005 | 5); Maryla | nd Depa | rtment of t | he Enviroi | nment Eli | gibility | | | | | | | |
| Determination Letter, (April 17, 2 | 2009) | | | | | | | | | | | | | | | | |
| Specific Data | | | | | | | | | | | | | | | | | |
| As the result of an Executive Ord be upgraded to the "limits of tech | | | | | | | | | | | | | | | | | |
| Strategy in May, 2003. The ENF | | | | | | | | | | | | | | | | | |
| average effluent concentrations | of total nit | rogen (4 r | mg/l) and | total pho | sphorous | (0.3 mg/ | (I), and per | mitted des | sign capa | city. The | ese load | | | | | | |
| goals have been incorporated in | | | | | | | | | | attempt t | | | | | | | |
| The ENR Strategy also calls for achieve an annual average effluence of the strategy achieve and annual average effluence of the strategy achieves and annual average effluence of the strategy achieves are strategy as a strategy achieves an annual average achieves an annual average achieves an annual average effluence of the strategy achieves an annual average achieves achieves an annual average achieves achieves an annual average achieves achieves achieves an annual average achieves achieves achieves an annual average achieves achieves an annual average achieves ac | | | | | | | | | | | | | MA | | AVAILAB | I E | |
| quality standards for the Chesap | eake Bay. | . Once th | nese stand | dards hav | e been ac | lopted, th | ne load go | als of the l | ENR Stra | tegy will b | | | | | | | |
| incorporated into NPDES permit | s as enfor | ceable ef | fluent limi | ts. The m | nore string | gent cond | centration | goals will i | remain as | s goals. | | | | | | | |
| The ENR Strategy also calls for | the creatio | on of an E | NR grant | program | to provide | e funding | for the ne | cessary w | astewate | r treatme | nt plant | | | | | | |
| upgrades. The Chesapeake Bay | | | | | | | | | | | | | | | | | |
| utility bills paid by Maryland resid design, and construction costs for | | | | | | | | | | | | | | | | | |
| (BNR) facility to an ENR facility. | | | | | | | | | | | | | | | | | |
| necessary liquid treatment proce | | | | | | | | norous. Or | h April 17 | 2009, M | DE | | | | | | |
| determined that the design, cons Cost Change | struction m | ianageme | ent and in | spection (| COSIS WER | e 100% 6 | endibile. | | | | | | | | | | |
| The cost has increased to reflec | t the actus | al design (| hne tenn | a more ac | curate co | nstructio | n cost ast | mate to p | rovide eu | nlement | al | | | | | | |
| carbon storage and feed facilitie | s. | 0 | | | | | | | SVILE SU | Shomento | u | | | | | | |
| STATUS Final Design (WSSC Cont | ract No. C | D4258A0 |)5,). | | | | | | | | | | | | | | |

Agency Number: S - 96.12 Project Name: Piscataway WWTP Enhanced Nutrient Removal

OTHER

The project scope has remained the same. Expenditures shown in Block B are planning level estimates, and may change based upon site specific conditions, design constraints. The expenditure estimates and funding schedule reflect the final cost sharing agreement with the Maryland Department of the Environment.

COORDINATION

Prince George's County Government, Maryland Department of the Environment, Maryland Water Management Administration and Prince George's County Department of Environmental Resources.

NOTE This project supports 100% Environmental Regulation.

| A. Identification and Coding Inform | nation | | 2. Da | te: Octo | ber 1, 200 | 9 7 | 7. Pre PD | F Pg.No.: | 8. Req. | Adeq. Pu | b. Fac. | E. Annual Operating Budget Impact (000's) | FY of Impact |
|---|-------------|-------------|------------------|---------------|----------------|----------------|----------------|----------------|------------------------|----------------|----------------|--|--------------|
| 1. Project Number Agency Number | Update | Code | | | | | | | | | | Program Costs Staff | |
| S-187.00 | Change | • | Revis | ea: | | | | | | | | Other Facility Costs Maintenance | |
| 3. Project Name: DSP & Conceptua | I Design S | Sewer Pro | jects | | | 5 | 5.Agency: | W | SSC | | | Debt Service | |
| 4. Program: Sanitation | 6. Planning | g Area: | Prince | e George' | s County | | | | | | | Total Costs | |
| | | | | | | | | | | | | Impact on Water or Sewer Rate | |
| В. | | E | Expenditu | re Sched | lule (000': | 5) | 1 | | | | | F. Approval and Expenditure Data (000's) | |
| | (8) | (9) Thru | (10) Estimate | (11) Total | (12) Year 1 | (13) Year 2 | (14) Year 3 | (15) Year 4 | (16) Year 5 | (17) Year 6 | (18) Beyond | Data First in Canital Dramon | |
| Cost Elements | Total | FY '09 | FY '10 | 6 Years | FY '11 | FY '12 | FY '13 | FY '14 | FY '15 | FY '16 | 6 Years | Date First in Capital Program | FY 85 |
| Planning, Design & Supervision | 2,841 | 1,452 | 599 | 789 | 301 | 101 | 109 | 40 | 38 | 200 | 1 | Date First Approved | FY 85 |
| Land | | | | | | | | | | | | Initial Cost Estimate | |
| Site Improvements & Utilities | | | | | | | | | | | | Cost Estimate Last FY | 24,660 |
| Construction | 12,398 | 2,669 | 3,727 | 5,781 | 2,446 | 1,644 | 391 | 200 | 552 | 548 | 221 | Present Cost Estimate | |
| Other | 1,661 | | 633 | 994 | 421 | 265 | 74 | 34 | 88 | 112 | 34 | Approved Request, Last FY | 7,033 |
| Total | 16,900 | 4,121 | 4,959 | 7,564 | 3,168 | 2,010 | 574 | 274 | 678 | 860 | 256 | Total Expenditures & Encumbrances | |
| C. | | | Funding | Schedu | e (000's) | | | | | | | Approval Request FY 11 | |
| Contribution/Other | 16,900 | 4,121 | 4,959 | 7,564 | 3,168 | 2,010 | 574 | 274 | 678 | 860 | 256 | | |
| | , | , | , | ., | -, | | | | | | | Supplemental Approval Request Current FY (10) | |
| D. Description & Justification | | | | | | | | | | | | | |
| DESCRIPTION | | | | | | | | | | | | G. Status Information | |
| This PDF provides the necessar conjunction with new developme | | | | | | | | | | | forrod | Land Status: Not Applicable | |
| to as Development Services Pro | | | | | | | | | | | | % Project Completion: Not Applicable | |
| final stages of facility planning for | | | | | | | | | | | | Est. Completion Date: Not Applicable | |
| this CIP was prepared. Prelimin | | | | | | | | | | | | | |
| County government representati period. See the pages that follo | | | | | istructure, | and reso | burce plan | ining for th | ie six-yea | r program | 1 | H. Map Map Reference Code: | |
| | 101 0 001 | inpronone | | ioting. | | | | | | | | | |
| JUSTIFICATION | | | | | | | | | | | | | |
| Plans & Studies | | | | | | | | | | | | | |
| DSP projects to serve new deve | lopment d | o not pro | cceed unl | ess the de | evelopmer | nt has the | appropria | ate service | e area and | d an appro | oved | | |
| preliminary plan of subdivision o | | | | | | | | | | | blished | | |
| through the Facility Planning Pro | | | | | | | | | | | | SEE ATTACHED MAPS | |
| projects which require final plan rights-of-way acquisition. Where | | | | | | | | | | | | | |
| projects may require in-house re | | | | | | | | | | | | | |
| developed. | | | | | | | | | | | | | |
| Specific Data | | | | | | | | | | | | | |
| When Conceptual Design projects, a separate PDF will be | ts progres | s beyond | l the 30% | design sta | age for fac | cility proje | ects and 6 | 60% desig | n stage fo d comple | or pipeline | and | | |
| will be displayed as stand-alone | | | | | | | | | | | , and | | |
| Cost Change | | | | | | | | | | | | | |
| Not Applicable | | | | | | | | | | | | | |
| STATUS Not Applicable | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | |

Agency Number: S - 187.00 Project Name: DSP & Conceptual Design Sewer Projects OTHER

The project scope has remained the same. Implementation of DSP projects listed under this PDF is contingent upon the Applicants meeting project specified conditions. This requirement indicates that the Applicant is making a "good faith" effort to proceed to construction. Consequently, the implementation schedules of DSP projects are largely beyond the control of the WSSC and, instead, depend upon the actions of the Applicants. All new DSP projects are included with the stipulation that no WSSC rate supported debt will be used for these projects. The expenditure schedule reflected in this PDF is not intended to be a restriction but only an estimate of expenditures based on such considerations as historical trends, market expectations, Applicant schedules, and the number, stage, and scope of projects currently moving through the DSP. This PDF does not include funding for facility planning projects which also require County government review and approval and public interaction, nor does it include non-DSP projects which are beyond the 30% design stage for facility projects or the 60% design stage for pipeline projects. Construction costs for Conceptual Design projects shown in Block B are very preliminary planning level estimates only, with approximate completion schedules, and may increase or decrease depending on site-specific conditions, design plans. The information in Block F pertains to this PDF in general and not to the individual projects listed on the pages that follow. DSP projects included in the listing that follows are 100% in support of future growth. The growth percentage for Conceptual Design projects vary and, therefore, is indicated on each individual listing as appropriate.

Agency Number: S-187.00 Project Name: DSP & Conceptual Design Sewer Projects

S-28.18 Konterra Town Center East Sewer (DA4623A07 DA4623B07 DA4623Z07)

5,400 feet of 24-inch diameter sewer main, 240 feet of 24-inch steel sleeve, and 240 feet of 48-inch steel sleeve to provide service to Konterra Town Center East. Capacity: 6.5 MGD; Service Area: Patuxent, Northeast Branch drainage basin; Population: 8,500; Status: D-50%. Estimated Total Project Cost: \$2,275,000. Design and construction will be performed by the developer under a System Extension Permit. Estimated completion date is developer dependent. No WSSC rate supported debt will be used for this project.

S-28.19 Konterra Town Center East Sewer, Part 2

10,000 feet of 15-inch through 30-inch diameter sewer main to provide service to Konterra Town Center East (DA4623Z07). Capacity: 6.5 MGD through 1.6 MGD; Service Area: Patuxent, Northeast drainage basin; Population: 8550; Status: P-50%. Estimated Total Project Cost is \$1,255,000. Estimated completion date is developer dependent. No WSSC rate supported debt will be used for this project.

S-68.01 Landover Mall Redevelopment

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2,500 feet of 27-inch, 300 feet of 24-inch and 1,450 feet of 18-inch diameter sewer mains to provide service to the Landover Mall Redevelopment. Capacity: 5.63 MGD; Status: P-5%; This project is dependent on future sewer augmentation/feasibility study along Cattail Branch. In addition, any Base Sanitary Flow over 100,000 is dependent upon the timing of the Notice To Proceed for project S-89.22, Anacostia Storage Facility. Estimated Total Project Cost: \$1,108,000. Estimated completion date is developer dependent. No WSSC rate supported debt will be used for this project.

S-75.19 Brandywine Woods Wastewater Pumping Station (DA4449Z06)

Planning, design and construction of a new wastewater pumping station to provide service to the Brandywine Woods property. Capacity: 0.28 MGD; Service area: Mattawoman; Population: 490; Status: D-0%; Estimated Total Project Cost: \$268,000. Estimated completion date is developer dependent. No WSSC rate suported debt will be used for this project.

S-75.20 Brandywine Woods WWPS Force Main (DA4449Z06)

1,600 feet of 4-inch diameter force main from the Brandywine Woods Wastewater Pumping Station to provide service to the Brandywine Woods property. Capacity: 0.28 MGD; Service Area: Patuxent South Pumpover to Mattawoman; Population: 490; Status: D-0%; Estimated Total Project Cost: \$106,000. Estimated completion date is developer dependent. No WSSC rate supported debt will be used for this project.

S-86.19 Karington Subdivision Sewer (DA4249A05, DA4249C05, DA4249Z05)

5,400 feet of 15-inch and 18-inch diameter sewer main to serve the Karington subdivision. Capacity: 1.7 to 2.87 MGD; Service Area: Mitchellville & Vicinity; Population: 2,102; Status: D-25%; Estimated Total Project Cost: \$875,000. Estimated completion date is developer dependent. No WSSC rate supported debt will be used for this project.

S-87.15 Rodenhauser Wastewater Pumping Station (DA4100Z05 & CP4100A05)

Planning, design and construction of a new wastewater pumping station to provide service to the Rodenhauser Property. Capacity: 0.15 MGD; Service Area: Western Branch; Population: 200; Status: D-90%; Estimated Total Project Cost: \$1,027,000. Design and construction will be performed by the developer under a Memorandum of Understanding. Estimated completion date is developer dependent. No WSSC rate supported debt will be used for this project.

S-87.16 Rodenhauser WWPS Force Main (DA4100B05, DA4100C05)

2,000 feet of 4-inch diameter force main from the Rodenhauser Wastewater Pumping Station to provide service to the Rodenhauser Property. Capacity: 0.15 MGD; Service Area: Western Branch; Population: 200; Status: D-95%; Estimated Total Project Cost: \$148,000. Estimated completion date is developer dependent. No WSSC rate supported debt will be used for this project.

S-89.19 Greenbelt Station Trunk Sewer (DA2993A01 & DA2993B01)

2,200 feet of 18-inch diameter trunk sewer to provide service to the Greenbelt Station Subdivision (200 feet of this length is a replacement sewer in Branchville Road). Capacity: 4 MGD; Service Area: Indian Creek of Northeast Branch; Population: 2,000; Status: C-95%; Estimated Total Project Cost: \$748,000. This project will impact local wetlands. Design and construction will be performed by the developer under a System Extension Permit. Estimated completion date is developer dependent. No WSSC rate supported debt will be used for this project.

Agency Number: S-187.00 Project Name: DSP & Conceptual Design Sewer Projects

S-114.06 Science Center WWPS (CP4227A05, CP6529B85, CP7710A88) & Green Branch WWPS Upgrade (CP6529B85

Planning, design and construction of Science Center Wastewater Pumping Station to replace the existing temporary wastewater pumping station. Existing pumping station will be demolished. Capacity: 1.7 MGD; Status: C-90%; Upgrade to existing Green Branch Wastewater Pumping Station to receive the increased flow from the new Science and Technology Center WWPS. Upgrade Capacity: 3.0 MGD; Status: C-10%; Service Area: Maryland Science and Technology Center, Phase I and II; Population: 1,000. Estimated Total Project Cost: \$2,616,000. Design and construction will be performed by the developer under a Memorandum Of Understanding. Estimated completion date is developer dependent. No WSSC rate supported debt will be used for this project.

S-114.15 MD Science & Technology Center Force Main & Trunk Sewer-DA6603K85

2,400 feet of 15-inch diameter gravity sewer, 380 feet of 48-inch and 36-inch tunnels, and 5,200 feet of 12-inch diameter force main between WSSC Project S-114.06 south across US 50 to the Western Branch collection system. Capacity: 1.7 MGD; Service Area: The Maryland Science & Technology Center, Phases 1 and 2; Population: 1,000; Status: C-60%; Estimated Total Project Cost: \$2,124,000. Land costs are included in WSSC Project S-205.00. Design and construction will be completed by the developer under a System Extension Permit. Estimated completion date is developer dependent. No WSSC rate supported debt will be used for this project.

S-114.23 Maryland Science & Technology Center Trunk Sewer (DA6603L&Z85)

3,000 feet of 15-inch to 18-inch diameter sewer main to provide service to Phase 2 of the Maryland Science & Technology Center. Capacity: Between 1.4 and 2.4 MGD; Service Area: Patuxent Central; Population: 850; Status: D-60%; Estimated Total Project Cost: \$654,000. Design and construction will be completed by the developer under a System Extension Permit. Estimated completion date is developer dependent. No WSSC rate supported debt will be used for this project.

S-131.05 Ridges III Sewer Main (DA8810F90)

2,750 feet of 18-inch diameter sewer main to provide service to the Ridges III Subdivision. Capacity: 3.48 MGD; Service Area: Burch Branch of Piscataway Creek; Population: 2,000; Status: D-45%; Estimated Total Project Cost: \$713,000. Estimated completion date is developer dependent. No WSSC rate supported debt will be used for this project.

S-131.07 Pleasant Valley Sewer Main (DA4757Z08)

10,000 feet of 15-inch and 18-inch diameter sewer main to serve The Estates at Pleasant Valley subdivision. Capacity: Between 1.7 and 2.2 MGD; Service Area: Piscataway Creek; Population: 2,800; Status: D-10%; Estimated Total Project Cost: \$1,342,000. Estimated completion date is developer dependent. No WSSC rate-supported debt will be used for this project.

S-131.08 Preserves of Piscataway WWPS

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Planning, design and construction of a new wastewater pumping station to provide service to the Preserves of Piscatway Subdivision (DA1543Z96). Capacity: 0.12mgd; Service Area: Piscatway; Population: 220; Status: D-0%; Estimated Total Project Cost: \$500,000. Estimated completion date is developer dependent. No WSSC rate supported debt will be used for this project

S-131.09 Preserves of Piscataway WWPS Force Main

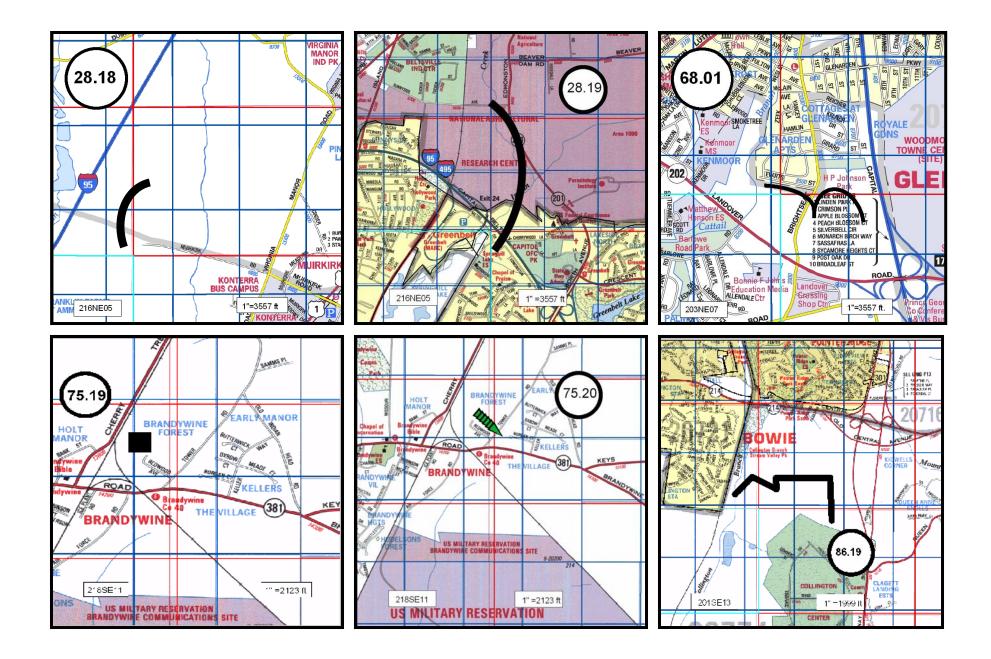
700 feet of 4-inch diameter force main from Preserves of Piscatway Wastewater Pumping Station to provide service to the Preserves of Piscatway Subdivision (DA1543Z96). Capacity: 0.12 mgd; Service Area: Piscatway; Population: 220; Status: D-0%; Estimated Total Project Cost: \$77,000. Estimated completion date is developer dependent. No WSSC rate supported debt will be used for this project.

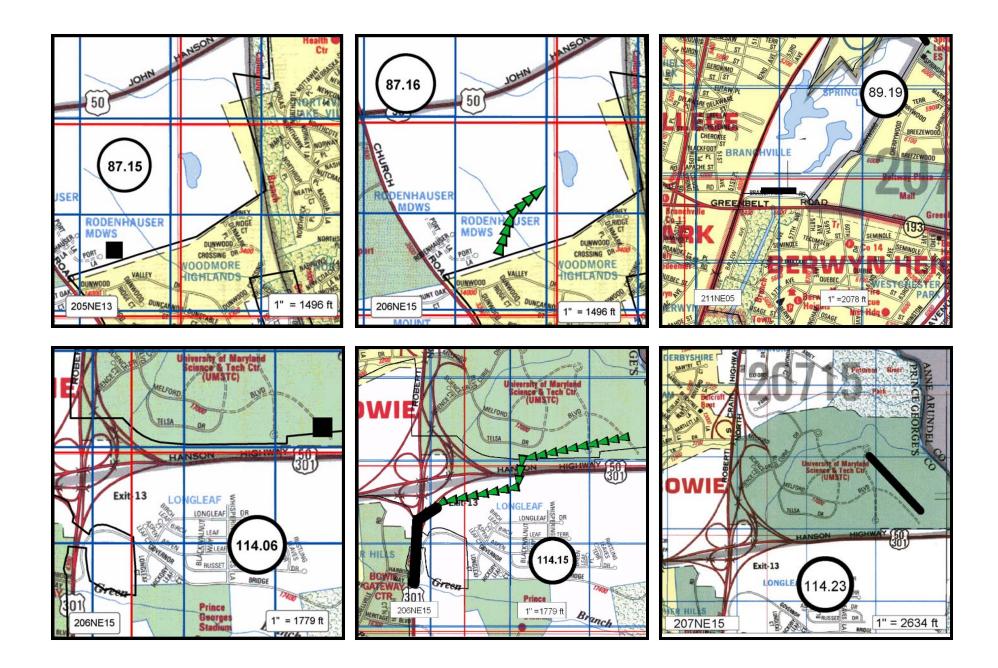
S-149.00 Mataponi Wastewater Pumping Station (CR9092A91)

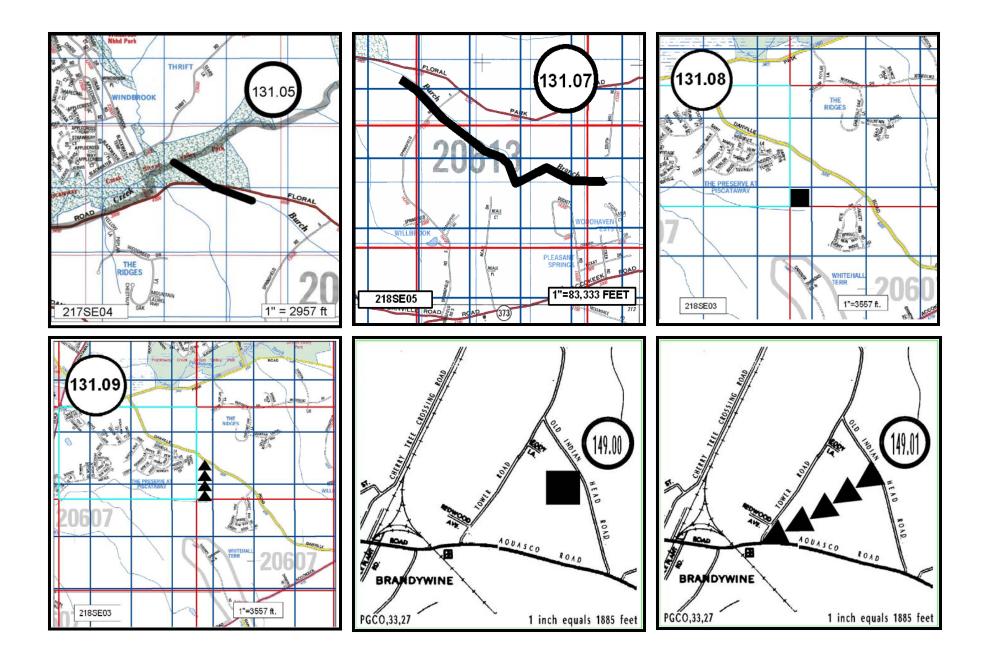
Planning, design and construction of a wastewater pumping station originally authorized for service to Keller's Subdivision. Capacity: 0.2 MGD; Service Area: Patuxent South; Population: 360; Status: P-0%. The project is on hold due to lack of activity and will need to be reevaluated when the Owner/Developer approaches the WSSC to restart the project. The current estimated total project cost of \$838,000 reflects the original plans for the subdivision. A new cost estimate and schedule will be required at restart. No WSSC rate supported debt will be used for this project.

S-149.01 Mataponi WWPS Force Main (DA9092B91)

3,300 feet of 6-inch diameter force main from the proposed WSSC Project S-149.00 Mataponi WWPS, originally to provide for service to the Keller's Subdivision. Capacity: 0.2 MGD; Service Area: Patuxent South; Population: 360; Status: P-25%. Project is on hold due to lack of activity for numerous years and will need to be re-evaluated when Owner/Developer approaches the WSSC to restart the project. Land costs are included in WSSC Project S-205.00. The current estimated total project cost of \$226,000 reflects the original plans for the subdivision. A new cost estimate and schedule will be required at restart. Estimated completion date is developer dependent. No WSSC rate supported debt will be used for this project.







| 1. Project Number Agency Number Update Code Revised: | A. Identification and Coding Info | ormation | 2. | Date: Octo | ber 1, 200 |)9 | 7. Pre PD | F Pg.No. | : 8. Req. | Adeq. P | ub. Fac. | E. Annual Operating Budget Impact (000's) | FY of Impact |
|---|---|--|--|--|--|---|--|--|--|--|-----------------------------|---|--------------|
| Status information Brigget Name: Brigget Name: Fragment Name: Fradment Name: | 1. Project Number Agency Number | er Update (| Code | | , | | | | | | | | |
| 3. Project Name: End & Relights of Way Acquisition - Prince George's County 5. Agency: VSSC 4. Program: Sanitation 6. Planning Ase: Prince George's County Total Costs Image: Cost Sanitation B. Expenditure Shedule (000*) Expenditure Shedule (000*) Expenditure Shedule (000*) Expenditure Shedule (000*) Cat Benesis Prince George's County 11/2 <td>S-205.00</td> <td>Change</td> <td>Re</td> <td>vised:</td> <td></td> <td>L.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | S-205.00 | Change | Re | vised: | | L. | | | | | | | |
| | 3. Project Name: Land & Rights-o | f-Way Acquis | sition - Prince G | eorge's Cou | nty | | 5.Agency | : W | SSC | | | Debt Service | |
| B. Expenditure Schedule (000°s) Construction 0) 0) 100 113 113 113 113 113 116 Date First in Capital Program FV 08 Provid Provid <td< td=""><td>4. Program: Sanitation</td><td>6. Planning</td><td>g Area: Pri</td><td>nce George</td><td>'s County</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<> | 4. Program: Sanitation | 6. Planning | g Area: Pri | nce George | 's County | | | | | | | | |
| Image: Construction Image: Construction< | | | | | | | | | | | | Impact on Water or Sewer Rate | |
| Constitution 0 <t< td=""><td>B</td><td></td><td>Expend</td><td>iture Schee</td><td>dule (000'</td><td>s)</td><td></td><td></td><td></td><td></td><td></td><td>E Approval and Expenditure Data (000's)</td><td></td></t<> | B | | Expend | iture Schee | dule (000' | s) | | | | | | E Approval and Expenditure Data (000's) | |
| Cost Elements Total Y108 FY10 FY12 FY13 FY15 FY16 6 Yeers Land 8 Supervision 6 86 30 40 16 16 17 40 Land 6 13 13 5 6 2 16 17 90 Other 13 13 5 6 2 18 18 5 6 2 18 5 90 90 35 46 18 18 5 90 35 46 18 18 5 90 35 46 18 18 5 5 6 2 10 10 35 5 5 6 12 10 10 35 5 6 18 18 5 6 12 10 10 10 35 5 6 18 10 10 35 5 18 10 10 10 35 5 6 18 10 10 10 10 10 10 10 10 | | (8) | | | | | | | | | | | |
| Land 86 30 40 16 Initial Cost Estimate Site Improvements & Utilities 13 13 5 6 2 Initial Cost Estimate 99 Other 13 13 5 6 2 Initial Cost Estimate 99 Construction 99 99 35 46 18 Initial Cost Estimate 99 Continution/Other 99 99 35 46 18 Initial Cost Estimate 99 Continution/Other 99 99 35 46 18 Initial Cost Estimate Cost Estimate 99 Continution/Other 99 99 35 46 18 Initial Cost Estimate Store provides a consolidated estimate of funding for the acquisition of land and rights-of-way for previously approved projects and new projects. as needfed. Expenditures are programmed based upon anticipate descence costs do not include purchases which have already been completed. Supplemental Approval Request PY 11 Cost Completion: Not Applicable USTERCEATION Pinas & Studies Cost Estimate < | Cost Elements | Total | | | | | | | | | | Date First in Capital Program | FY 98 |
| Site Improvements & Utilities Image: Construction Image: Con | Planning, Design & Supervision | | | | | | | | | | | Date First Approved | FY 98 |
| Construction 13 13 6 2 Other 13 13 6 2 Total 99 99 35 46 18 Combuiltor/Other 99 99 35 46 18 Combuiltor/Other 99 99 35 46 18 Description & Justification Combulation/Other 99 35 46 18 Dispectific projects. as needed. Expenditures are programmed based upon anticipated schedules and are required for the completion of those specific projects. These costs do not include purchases which have already been completed. Supplemental Approval Request FV 11 35 Supplemental Approval Request FV 11 35 Supplemental Approval Request FV 11 36 Supplemental Approval Request FV 11 36 Supplemental Approval Request FV 11 36 User structures are observed to not include purchases which have already been completed. Supplemental Approval Request FV 11 36 User structures requirements required by other agencies, or requirements identified within the Development Services Process (DSP). Specific Data Sepcific Data Not Applicable Structures for approved projects due to micralingenet chaneges identified projects due to micralingene | Land | 86 | | 86 | 30 | 40 | | | 16 | | | Initial Cost Estimate | |
| Construction 13 13 5 6 2 Other 13 13 5 6 2 Total 99 99 35 46 18 Construction/Other 99 99 35 46 18 D. Description & Justification Excerption Supplemental Approval Request FV 11 35 Dives exploiting roles, as needed. Expenditures are programmed based upon anticipated schedules and are required for the completion of those specific projects. These costs do not include purchases which have already been completed. Supplemental Approval Request FV 11 35 Supplemental Approval Request FV 11 35 Supplemental Approval Request FV 11 35 Supplemental Approval Request FV 11 35 Supplemental Approval Request FV 11 35 Supplemental Approval Request FV 11 35 Supplemental Approval Request FV 11 36 Supplemental Approval Request FV 11 35 Supplemental Approval Request FV 11 36 Supplemental Approval Request FV 11 35 Supplemental Approval Request FV 11 36 Supplemental Approval Request FV 11 36 Supplemental Approval Request FV 11 36 Supplemental Approval Request | Site Improvements & Utilities | | | | | | | | | | | Cost Estimate Last FY | 99 |
| Other 13 13 5 6 2 Total 99 39 35 46 18 C. Funding Schedule (000*s) Contribution/Other 99 99 35 46 18 35 Approval Request, Last FY 35 D. Description & Justification Constitution (Status a consolidated estimate of funding for the acquisition of land and rights-of-way for previously approved projects and three specific projects. These costs do not include purchases which have already been completed. Land & RVW to be acquired % Depict Completion of the Status in Cornent FY (10) G. Status Information JUSTIFICATION Plans & Studies Acquisition needs are determined by the WSSC and are based upon facility planning efforts, alignment studies, field surveys, realignments required by other agencies, or requirements identified within the Development Services Process (DSP). Specific Data Land & RVW to be acquired % Depict Completion Date: Not applicable Consolidation of expenditures for land and rights-of-way acquisitions provides flexibility in expending funds in a specific fiscal year and permits the WSSC to respond to the uncertainty of project-specific implementations include the accommodation of unpredictable depays for extended community outreach which impacts the timing of a planned purchase, unanticipated rights-of-way requirements for approved projects. Which depend upon actions of the Applicant. Other considerations include the accommodation of unpredictable deps for extended community outreach which impacts the timing o | | | | | | | | | | | | Present Cost Estimate | |
| India 33 34 34 35 46 18 133 33 35 46 18 133 35 35 46 18 133 35 35 46 18 35 Supplemental Approval Request Current FY (10) 35 Description 8 Austification Escarbace Expenditures are programmed based upon anticipated shedules and are required for the completion of the | | | | | | | | | | | | | |
| C. Funding Schedule (000's) Contribution/Other 99 99 35 46 18 D. Description & Justification Difference Secondary Supplemental Approval Request Supplemental Approval Request This PDF provides a consolidated estimate of funding for the acquisition of land and rights-of-way for previously approved projects and new projects, as needed. Expenditures are programmed based upon anticipated schedules and are required for the completion of those specific projects. These costs do not include purchases which have already been completed. G. Status Information JUSTIFICATION Plans & Studies Acquisition needs are determined by the WSSC and are based upon facility planning efforts, alignment studies, field surveys, realignments required by other agencies, or requirements for land and rights-of-way acquisitions provides flexibility in expending funds in a specific fiscal year and permits the WSSC to respond to the uncertainty of project-specific mipherentation schedules. This format change alleviates this restriction, especially for DSP projects, which depend upon actions of the Applicant. Other considerations include the accommodation of unperdicuble delays for eatened community outreach which impacts the timing of a planned purchase, and the need to assure the WWSSC are eatened community outreach which impacts the timing of a planned purchase, and the need to assure the WWSSC and re base of planning & Design Othere Status Various Stages of Planning & Design OTHER Not Applicable Status Deroject scoep has remained the same. The expe | Total | 99 | | 99 | 35 | 46 | | | 18 | | | | - 35 |
| Contribution/Other 99 99 35 46 18 D. Description & Justification DESCRIPTION Supplemental Approval Request Supplemental Approval Request This PDP provides a consolidated estimate of funding for the acquisition of land and rights-of-way for previously approved projects and those specific projects. These costs do not include purchases which have already been completed. Supplemental Approval Request JUSTIFICATION Image: Complexity of the acquisition needs are determined by the WSSC and are based upon facility planning efforts, alignment studies, field surveys, realignments required by ther agencies, or requirements identified within the Development Services Process (DSP). Image: Complexity of the acquisitions provides flexibility in expending funds in a specific fiscal year and permits the WSSC or extended community outcase of the Applicant. Other considerations include the accommonity outcase the timing of a planned purchase, unanticipated rights-of-way requirements indentified bate in the design phase, and the need to assure the WSSC are acquired by avoiding project-specific implexity or contacting property owners. H. Map Map Reference Code: Status Yanous Stages of Planning & Design Other Requirements for alignment changes identified late in the design phase, and the need to assure the WSSC are acquired by avoiding project-specific implexity of a contacting property owners. Cost Change Not Applicable Status Yanous Stages of Planning & Design Other provides accomplete, the actual cost will be displayed in the expenditure schedule on the approrpriate p | | | | | | | | | | | | | |
| D. Description & Justification D. Description & Description D. Description & Justification D. Description & Justification D. Description & Description D. Description & Description D. Description & Description D. Description & Description & Descr | | | Fund | _ | | | 1 | 1 | 1 | 1 | 1 | Approval Request FY 11 | 35 |
| D. Description & Justification DESCRIPTION This PDF provides a consolidated estimate of funding for the acquisition of land and rights-of-way for previously approved projects and new projects. as needed. Expenditures are programmed based upon anticipated schedules and are required for the completion of those specific projects. These costs do not include purchases which have already been completed. G. Status Information JUSTIFICATION Plans & Studies Acquisition needs are determined by the WSSC and are based upon facility planning efforts, alignment studies, field surveys, realignments required by other agencies, or requirements identified within the Development Services Process (DSP). Specific Data Consolidation of expenditures for land and rights-of-way acquisitions provides flexibility in expending funds in a specific fiscal year and permits the WSSC to respond to the uncertainty of project-specific cost displays prior to contacting property owners. Code to assure the WSSC to respond to the uncertainty of project-specific cost displays prior to contacting property owners. Cost Change Not Applicable Status Stages of Planning & Design Other Ex The project scope has remained the same. The expenditures shown in Block B are estimates only and may change based upon actual negotiation. When purchases are complete, the actual cost will be displayed in the expenditure schedule on the appropriate project The project scope has remained the same. The expenditures shown in Block B are estimates only and may change based upon actual negotiation. Survey the map project specific formed are the appropriate project Head Status | Contribution/Other | 99 | | 99 | 35 | 46 | | | 18 | | | Supplemental Approval Request | |
| STATUS Various Stages of Planning & Design OTHER The project scope has remained the same. The expenditures shown in Block B are estimates only and may change based upon actual negotiations. When purchases are complete, the actual cost will be displayed in the expenditure schedule on the appropriate project description form elsewhere in this program. | JUSTIFICATION Plans & Studies Acquisition needs are determined realignments required by other Specific Data Consolidation of expenditures permits the WSSC to respondent restriction, especially for DSP of unpredictable delays for extreguirements for approved pro- WSSC an equitable negotiation | ned by the W r agencies, o for land and I to the uncer projects, whi tended comm bjects due to | VSSC and are b or requirements rights-of-way a rtainty of project ich depend upon nunity outreach minor alignmen | ased upon f dentified wir squisitions p specific imp actions of which impac | acility plan hin the De rovides fle blementation the Applic tts the timi entified la | ning effo evelopme on scheo ant. Oth ng of a p te in the | orts, alignr ent Servic dexpendir dules. Thi er conside blanned po design ph | nent stud es Proces og funds ir s format o erations ir urchase, u ase, and | a specific change all clude the unanticipat the need t | c fiscal ye eviates th accomm ed rights | nis Iodation 5-of-way | Est. Completion Date: Not applicable | |
| OTHER The project scope has remained the same. The expenditures shown in Block B are estimates only and may change based upon actual negotiations. When purchases are complete, the actual cost will be displayed in the expenditure schedule on the appropriate project description form elsewhere in this program. | Not Applicable | | | | | | | | | | | | |
| OTHER The project scope has remained the same. The expenditures shown in Block B are estimates only and may change based upon actual negotiations. When purchases are complete, the actual cost will be displayed in the expenditure schedule on the appropriate project description form elsewhere in this program. | STATUS Various Stages of Plann | ning & Design | า | | | | | | | | | | |
| | The project scope has remain negotiations. When purchase description form elsewhere in | es are comple this program | ete, the actual of | | | | | | | | | | |

PROJECTS PENDING CLOSE-OUT Prince George's County Sewer Projects (costs in thousands)

| Project Number | Agency Number | Project Name | Estimated Total Cost | Expenditures Thru FY'09 | Estimated Expenditures FY'10 | Remarks |
|-------------------|------------------|---|----------------------------|-------------------------------|------------------------------------|----------------------------------|
| | S-75.13 | Lakeview at Brandywine Sewer | \$0 | \$0 | \$0 | Project reduced to non-CIP size. |
| | S-75.17 | Mattawoman WWTP Enhanced Nutrient Removal | 3,636 | 3,636 | 0 | Project completed. |
| | | TOTALS | \$3,636 | \$3,636 | \$0 | |

Section 7 - Information Only Projects

DATE: October 1, 2009

FINANCIAL SUMMARY

(ALL FIGURES IN THOUSANDS)

INFORMATION ONLY PROJECTS

| AGENCY | PROJECT | EST. | EXPEND | EST. | TOTAL | | FXI | PENDITUR | E SCHEDU | II F | | BUDGET | PDF |
|----------|--|-----------|--------|---------|-----------|---------|---------|----------|----------|---------|---------|---------|------|
| NUMBER | NAME | TOTAL | THRU | EXPEND | SIX | YR 1 | YR 2 | YR 3 | YR 4 | YR 5 | YR 6 | REQUEST | PAGE |
| NOWBER | | COST | 09 | 10 | YEARS | 11 | 12 | 13 | 14 | 15 | 16 | 11 | NUM |
| W-1.00 | Water Reconstruction Program | 616,525 | 0 | 54,179 | 562,346 | 64,485 | 75,361 | 86,834 | 98,924 | 111,664 | 125,078 | 64,485 | 7-3 |
| S-1.01 | Sewer Reconstruction Program | 410,522 | 0 | 56,857 | 353,665 | 69,445 | 58,023 | 54,753 | 55,467 | 57,132 | 58,845 | 69,445 | 7-5 |
| A-102.00 | Engineering Support Program | 88,000 | 0 | 10,000 | 78,000 | 13,000 | 13,000 | 13,000 | 13,000 | 13,000 | 13,000 | 13,000 | 7-7 |
| A-103.00 | Energy Performance Program | 51,405 | 21,600 | 2,640 | 26,105 | 6,452 | 8,999 | 4,924 | 5,370 | 180 | 180 | 6,452 | 7-8 |
| A-103.01 | Anaerobic Digestion/Combined Heat & Power (Seneca & Piscataway WWTPs) | 33,638 | 0 | 319 | 33,319 | 1,419 | 5,500 | 17,600 | 8,800 | 0 | 0 | 1,419 | 7-11 |
| A-104.00 | Entrepreneurial Projects | 2,031 | 371 | 380 | 1,280 | 320 | 182 | 269 | 62 | 438 | 9 | 320 | 7-14 |
| A-105.00 | Water Storage Facility Rehabilitation Program | 34,000 | 0 | 5,000 | 29,000 | 4,000 | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 | 4,000 | 7-15 |
| A-106.00 | Utility Master Plan | 14,640 | 3,675 | 2,635 | 6,930 | 1,320 | 1,210 | 1,100 | 1,100 | 1,100 | 1,100 | 1,320 | 7-16 |
| A-107.00 | Pressure Reducing Valve Rehabilitation Program | 17,560 | 400 | 880 | 15,070 | 3,630 | 2,530 | 2,420 | 2,420 | 2,310 | 1,760 | 3,630 | 7-18 |
| | TOTAL INFORMATION ONLY PROJECTS | 1,268,321 | 26,046 | 132,890 | 1,105,715 | 164,071 | 169,805 | 185,900 | 190,143 | 190,824 | 204,972 | 164,071 | |

Notes for costs beyond six years:

Includes 1,060 for Project A-103.00, Energy Performance Program Includes 1,400 for Project A-106.00, Utility Master Plan Includes 1,210 for Project A-107.00, Pressure Reducing Valve Rehabilitation Program

Information Only Projects New Projects Listing (costs in thousands)

| Agency Number | Project Name | Total Project Cost | Budget Year Cost | Page Number |
|------------------|--|--------------------------|------------------------|----------------|
| A-107.00 | Pressure Reducing Valve Rehabilitation Program | \$17,560 | \$3,630 | 7-18 |
| | TOTALS | \$17,560 | \$3,630 | |

| A. Identification and Coding Infor | mation | | 2. Da | te: Octo | ber 1, 200 |)9 | 7. Pre PD | F Pg.No.: | 8. Req. | Adeq. Pu | ub. Fac. | E. Annual Operating Budget Impact (000's) FY of | Impact |
|---|------------------|-------------|------------------|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------------|--|--------|
| 1. Project Number Agency Number | Update | Code | | | , | | | | | | | Program Costs Staff | |
| W-1.00 | Change | | Revis | sea: | | - | | | | | | Other Facility Costs Maintenance | |
| 3. Project Name: Water Reconstruct | ction Progra | am | | | | : | 5.Agency: | W | SSC | | | Debt Service 45579 | 17 |
| 4. Program: Sanitation | 6. Planning | g Area: | Bi-Co | ounty | | | | | | | | Total Costs 45579 Impact on Water or Sewer Rate 89¢ | 17 |
| | | | | | | | | | | | | Impact on water or Sewer Rate | 17 |
| В. | | | | ure Scheo | | | 1 | 1 | | 1 | 1 | F. Approval and Expenditure Data (000's) | |
| | (8) | (9) Thru | (10) Estimate | (11) Total | (12) Year 1 | (13) Year 2 | (14) Year 3 | (15) Year 4 | (16) Year 5 | (17) Year 6 | (18) Beyond | Date First in Capital Program | Y |
| Cost Elements Planning, Design & Supervision | Total 192,154 | FY '09 | FY '10 17.621 | 6 Years 174,533 | FY '11 20,612 | FY '12 23,768 | FY '13 27,094 | FY '14 30,598 | FY '15 34,289 | FY '16 38,172 | 6 Years | Date First Approved | Y |
| Land | , | | , - | , | - , - | -, | , | | - , | , | | Initial Cost Estimate | |
| Site Improvements & Utilities | | | | | | | | | | | | Cost Estimate Last FY 522, | 616 |
| Construction | 320,970 | | 25,963 | 295,007 | 32,002 | 38,380 | 45,114 | 52,215 | 59,703 | 67,593 | | Present Cost Estimate 616, | 525 |
| Other | 103,401 | | 10,595 | | 11,871 | 13,213 | 14,626 | 16,111 | 17,672 | 19,313 | | | 634 |
| Total | 616,525 | | 54,179 | 562,346 | 64,485 | 75,361 | 86,834 | 98,924 | 111,664 | 125,078 | | Total Expenditures & Encumbrances | |
| C. | | | Funding | g Schedu | le (000's) | | | | | | | Approval Request FY 11 64.4 | 185 |
| WSSC Bonds | 616,525 | | | 562,346 | | 75,361 | 86,834 | 98,924 | 111,664 | 125,078 | | | |
| D. Description & Justification | | | | | | | | | | | | Supplemental Approval Request Current FY (10) | |
| DESCRIPTION | | | | | | | | | | | | | |
| The purpose of this program is | to renew ar | nd extend | I the usef | ul life of w | ater main | s. Portio | ns of the v | vater svst | em are m | ore than | 80 | G. Status Information | |
| years old. Bare cast iron mains | | | | | | | | | | | | Land Status: Not applicable | |
| discoloration at the customer's | | | | | | | | | | | | % Project Completion: Not Applicable | |
| domestic use and fire fighting. | | | | | | | | | | | | Est. Completion Date: On-Going | |
| other mains are undersized for Galvanized, copper and cast inc | | | | | | | | | | | | | |
| replaced on an as needed basis | | | | | | appunch | | idding me | | It vaulte | aic | H. Map Map Reference Code: | |
| * EXPENDITURES FOR WATE | | STRUCT | | EXPECT | | | | | | | | | |
| | | SINCOL | | | | | | | | | | | |
| Service Area Bi-CountyArea | | | | | | | | | | | | | |
| JUSTIFICATION | | | | | | | | | | | | | |
| Plans & Studies | | | | | | | | | | | | | |
| Flow studies, water system mo Assessment, 1915-1998; Analy | | | | | | | | | | | od the | | |
| historical main break data for p | | | | | | | | | | | | | |
| distribution system. An early of | | | | | | | | | | | | MAP NOT APPLICABLE | |
| Specific Data | | | | | | | | | | | | | |
| The program's projected work u | | | | | | | | | | | | | |
| 40 miles - \$8.6M; construction | | | | | | | | | | | | | |
| water service replacement prog depending on the nature and pr | | | | | | | | | | | | | |
| Program level may change in fu | | | | | | | | | | | | | |
| Cost Change | | | | | | | | | | | | | |
| The program costs increased to program. | o reflect an | increase | in replac | ement mil | es and gro | eater em | phasis on | the large | meter rep | blacement | t | | |
| STATUS Under Construction | | | | | | | | | | | | | |
| OTHER | | | | | | | | | | | | | |
| The project scope has remaine | d the same | . The wat | er recons | struction p | rogram ha | as been c | ongoing sir | nce 1979. | Funding | in the six | -year | | |

Agency Number: W - 1.00 Project Name: Water Reconstruction Program

program period is subject to Spending Affordability Guideline limits. The following work accomplishments through FY'09 summarize the magnitude of the reconstruction effort: water main cleaning and lining, 1,142 miles completed; water main replacement, 206 miles completed; large water service/meter replacement, 4 large water service/meters replaced. It is anticipated water reconstruction activity will be a perpetual element of future work programs.

COORDINATION

Maryland State Highway Administration, Montgomery County Department of Public Works and Transportation, Montgomery County Government (including local municipalities where work is to be performed), Prince George's County Government (including local municipalities where work is to be performed), Prince George's County Department of Public Works & Transportation and Local Community Civic Associations.

| A. Identification and Coding | Information | 2. Da | te: Octo | ber 1, 200 | | 7. Pre PD | F Pg.No.: | 8. Req. | Adeq. Pu | b. Fac. | E. Annual Operating Budget Impact (000 | I's) FY of Impact |
|--|----------------------|--------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|--|--------------------|
| 1. Project Number Agency Nu | | Code | | , | | | | | | | Program Costs Staff | |
| S-1.01 | Change | Revis | sed: | | - | | | | | | Other Facility Costs Maintenance | |
| 3. Project Name: Sewer Reco | nstruction Program | m | | | 4 | 5.Agency: | W | SSC | | | Debt Service | 47777 17 |
| 4. Program: Sanitation | 6. Planning | Area: Bi-Co | ounty | | | | | | | | Total Costs Impact on Water or Sewer Rate | 47777 17 94¢ 17 |
| В. | | Expenditu | ure Schec | lule (000': | s) | | | | | | F. Approval and Expenditure Data (000's | s) |
| | (8) | (9) (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) | (18) | | , |
| Cost Elements | Total | Thru Estimate FY '09 FY '10 | Total 6 Years | Year 1 FY '11 | Year 2 FY '12 | Year 3 FY '13 | Year 4 FY '14 | Year 5 FY '15 | Year 6 FY '16 | Beyond 6 Years | Date First in Capital Program | FY |
| Planning, Design & Supervisio | n 70,097 | 9,473 | | 11,742 | 9,917 | | 9,404 | 9,687 | 9,977 | | Date First Approved | FY |
| Land | 3,300 | 2,300 | 1,000 | 1,000 | | | | | | | Initial Cost Estimate | |
| Site Improvements & Utilities | | | | | | | | | | | Cost Estimate Last FY | 551,898 |
| Construction | 276,974 | 37,025 | 239,949 | 46,561 | 39,531 | 36,776 | 37,879 | 39,016 | 40,186 | | Present Cost Estimate | 410,522 |
| Other | 60,151 | 8,059 | 52,092 | 10,142 | 8,575 | 8,080 | 8,184 | 8,429 | 8,682 | | Approved Request, Last FY | 56,807 |
| Total | 410,522 | 56,857 | 353,665 | 69,445 | 58,023 | 54,753 | 55,467 | 57,132 | 58,845 | | Total Expenditures & Encumbrances | |
| C. | | Funding | g Schedu | le (000's) | | | | | | | Approval Request FY 11 | 69,445 |
| WSSC Bonds | 404,522 | | 351,665 | | 58,023 | 54,753 | 55,467 | 57,132 | 58,845 | | | |
| Federal Aid | 6,000 | 4,000 | 2,000 | 2,000 | | | | | | | Supplemental Approval Request Current FY (10) | |
| D. Description & Justificatio | n | | | | | | | | | | | |
| DESCRIPTION | | | | | | | | | | | G. Status Information | |
| This program funds a com | nrehensive sewer | r system rehabilit | ation prod | ram The | main co | mponent c | of this prod | nram is th | e rehahili | tation | Land Status: Not applicable | |
| and/or repair of sewer mail | | | | | | | | | | | % Project Completion: Not Applicable | |
| and future capacity needs | | | | | | | | | | | Est. Completion Date: On-Going | |
| recommended by compre | | | | | | | | | | | LL Man Nen Deference Codes | |
| field surveys, and closed or relief or replacement severe | | | | | | | | | | ze | H. Map Map Reference Code: | |
| * EXPENDITURES FOR S | | | | - | | | | , | | | | |
| Service Area Bi-County | A roo | | | | | | | | | | | |
| JUSTIFICATION | Alea | | | | | | | | | | | |
| Plans & Studies | | | | | | | | | | | | |
| Comprehensive Basin Stu | dies, Sewer Syste | em Evaluation Su | rveys, Lin | e Blockag | e Assess | sments, fie | eld survey | s, closed | circuit TV | | | |
| inspections, and/or other a | ctivities investiga | ating specific porti | ons of the | collection | i system. | | | | | | | |
| Specific Data | | | | | | | | | | | MAP NOT APPLICAB | LE |
| The program's projected v and lateral line design - \$2 | | | | | | | | | | | | |
| sewer house connection r | | | | | | | | | | 1, | | |
| properties and easements | for water supply | protection - \$1.0 | M. Note: | The speci | ific mix a | nd type of | sewer rec | constructi | on may va | | | |
| any given year depending | | | | | to the fi | scal alloca | ation for th | e prograr | n. Progra | ım level | | |
| may change in future year | s subject to result | ts of the 30 Year | Infrastruct | ure Plan. | | | | | | | | |
| Cost Change | | | | | | | | | | | | |
| The program cost increas | ed to reflect an ind | crease in the num | nber of mil | es and co | st per mi | le. | | | | | | |
| STATUS Under Construction | | | | | | | | | | | | |
| OTHER | | | | | | | | | | | | |
| The project scope has ren Sewer Overflow Consent I | | | | | | | | | | | | |

Agency Number: S - 1.01 Project Name: Sewer Reconstruction Program

EPA was entered into on December 7, 2005. The funding schedule reflects the \$6,000,000 Federal stimulus grant provided under the American Recovery and Reinvestment Act for the planned reconstruction work in Lower Anacostia. The sewer reconstruction program was established in 1979.

The following work accomplishments through FY'09 summarize the magnitude of this reconstruction effort: sewer main reconstruction, 233 miles; and sewer house connection renewals, 14,698. It is anticipated that sewer reconstruction activity will be a perpetual element of future work programs.

COORDINATION

Maryland State Highway Administration, Montgomery County Department of Public Works and Transportation, Montgomery County Government (including local municipalities where work is to be performed), Prince George's County Government (including local municipalities where work is to be performed), Maryland Department of the Environment (SSO Consent Decree Compliance), Prince George's County Department of Public Works & Transportation, U.S. Environmental Protection Agency, Region III (SSO Consent Decree Compliance) and Local Community Civic Associations.

| A. Identification and Coding Inform | nation | | 2. Da | te: Octol | per 1, 200 | 9 7 | . Pre PDI | Pg.No.: | 8. Req. | Adeq. Pu | b. Fac. | E. Annual Operating Budget Impact (000's) FY of Impact |
|--|--------------------------------------|---------------------------------------|---|---|--|--------------------------------------|------------------------|--------------------------------------|-----------------------------------|--------------------------------------|-------------------|---|
| 1. Project Number Agency Number | Update | | Revis | | | | | | | | | Program Costs Staff |
| A-102.00 | Change | | Revis | eu. | | | | | | | | Other |
| 3. Project Name: Engineering Suppo | ort Program | n | | | | 5 | Agency: | W | SSC | | | Debt Service 7307 17 |
| 4. Program: Sanitation 6 | Planning | g Area: | Bi-Co | unty | | | | | | | | Total Costs 7307 17 Impact on Water or Sewer Rate 14¢ 17 |
| | | | vnonditu | re Sched | ulo (000'/ | -) | | | | | | |
| В. | (8) | (9) | (10) | (11) | (12) | 5) (13) | (14) | (15) | (16) | (17) | (18) | F. Approval and Expenditure Data (000's) |
| Cost Elements | Total | Thru FY '09 | Estimate FY '10 | Total 6 Years | Year 1 FY '11 | Year 2 FY '12 | Year 3 FY '13 | Year 4 FY '14 | Year 5 FY '15 | Year 6 FY '16 | Beyond 6 Years | Date First in Capital Program FY 87 |
| Planning, Design & Supervision | Total | 11 03 | 1110 | 0 10013 | | 1112 | 1115 | 1114 | 1115 | 1110 | 016013 | Date First Approved FY 87 |
| Land | | | | | | | | | | | | Initial Cost Estimate |
| Site Improvements & Utilities | | | | | | | | | | | | Cost Estimate Last FY |
| Construction | 88,000 | | 10,000 | 78,000 | 13,000 | 13,000 | 13,000 | 13,000 | 13,000 | 13,000 | | Present Cost Estimate 88,000 |
| Other | | | | | | | | | | | | Approved Request, Last FY 10,000 |
| Total | 88,000 | | 10,000 | 78,000 | 13,000 | 13,000 | 13,000 | 13,000 | 13,000 | 13,000 | | Total Expenditures & Encumbrances |
| C. | | • | Funding | Schedul | e (000's) | · | | | • | | | Approval Request FY 11 13,000 |
| WSSC Bonds | 83,800 | | 9,400 | 74,400 | 12,400 | 12,400 | 12,400 | 12,400 | 12,400 | 12,400 | | Supplemental Approval Request |
| Water Operating Funds | 2,100 | | 300 | 1,800 | 300 | 300 | 300 | 300 | 300 | 300 | | Current FY (10) |
| Sewer Operating Funds | 2,100 | | 300 | 1,800 | 300 | 300 | 300 | 300 | 300 | 300 | | G. Status Information |
| D. Description & Justification <u>DESCRIPTION</u> The Engineering Support Progra the extensive water and sewer in | frastructu | re and nu | merous s | upport fac | ilities that | are owne | ed, operat | ed, and n | | | | Land Status: Not applicable % Project Completion: On-Going Est. Completion Date: On-Going H. Map Map Reference Code: |
| * EXPENDITURES FOR ENGIN | IEERING | SUPPOR | T ARE E | XPECTED | TO CON | ITINUE IN | IDEFINIT | ELY. | | | | |
| Service Area Bi-County Area | | | | | | | | | | | | |
| JUSTIFICATION | | | | | | | | | | | | |
| Plans & Studies In-house Study, (April 2002); Util Strategy - Track 2 Phase 1 Final Specific Data | | | | | | | | | Plan Asse | et Manage | ement | |
| ESP projects may be identified in Teams for engineering support. As such, ESP projects are divers processes, satisfy regulatory req proposed "major projects" which, serve new development. | Support s se in scop uirements | ervices a e and typi s, improve | re in the fe ically inclu safety ar | orm of pla ude work r nd security | nning, dea needed to r, or rehat | sign, and upgrade pilitate agi | construct operating | ion to me efficiency es. The E | et a wide y, modify SP does | range of r existing not includ | needs. Ie | MAP NOT APPLICABLE |
| Cost Change | | | | | | | | | | | | |
| Program cost increase is to addr | ess antici | pated new | w sub-pro | jects ident | ified in the | e Utility-W | /ide Mast | er Plan. | | | | |
| STATUS Under Construction | | | | | | | | | | | | |
| OTHER The project scope has remained support. Each year, the requeste | | | | | | 0 | | , | | <u> </u> | | |

| A. Identification and Coding Infor | mation | | 2. Da | te: Octo | ber 1, 200 | 9 | 7. Pre PD | F Pg.No.: | 8. Req. | Adeq. Pu | b. Fac. | E. Annual Operating Budget Impact (000's) | FY of Impact |
|--|--------------------------|-----------------------|----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------|---|--------------|
| 1. Project Number Agency Number A-103.00 | Update Change | | Revis | | , | | | | | | | Program Costs Staff Other Facility Costs Maintenance | |
| 3. Project Name: Energy Performar 4. Program: Sanitation | nce Progra 6. Plannin | | Bi-Co | unty | | Ę | 5.Agency: | W | SSC | | | Total Costs Debt Service 1705 Impact on Water or Sewer Rate | i |
| В. | | E | Expenditu | re Sched | ule (000' | s) | | | | | | F. Approval and Expenditure Data (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 | Date First in Capital Program | FY 03 |
| Planning, Design & Supervision | 6,380 | 2,100 | 400 | 2,820 | 770 | 500 | 790 | 400 | 180 | 180 | 1,060 | Initial Cost Estimate | |
| Land | | | | | | | | | | | | | 22,200 |
| Site Improvements & Utilities | | | | | | | | | | | | Cost Estimate Last FY | 31,610 |
| Construction | 39,700 | 16,600 | 2,000 | 21,100 | 5,200 | 7,700 | 3,700 | 4,500 | | | | Present Cost Estimate | 51,405 |
| Other | 5,325 | 2,900 | 240 | 2,185 | 482 | 799 | 434 | 470 | | | | Approved Request, Last FY | 3,430 |
| Total | 51,405 | 21,600 | 2,640 | 26,105 | 6,452 | 8,999 | 4,924 | 5,370 | 180 | 180 | 1,060 | Total Expenditures & Encumbrances | 21,600 |
| С. | | | Funding | Schedul | e (000's) | | | | | | | Approval Request FY 11 | 6,452 |
| WSSC Bonds | 42,685 | 19,500 | 2,440 | 20,745 | 5,202 | 7,749 | 3,674 | 4,120 | | | | Supplemental Approval Request | |
| Federal Aid | 4,200 | | | 4,200 | 1,050 | 1,050 | 1,050 | 1,050 | | | | Current FY (10) | |
| Water Operating Funds | 2,260 | 1,050 | 100 | 580 | 100 | 100 | 100 | 100 | 90 | 90 | 530 | | |
| Sewer Operating Funds | 2.260 | 1.050 | 100 | 580 | 100 | 100 | 100 | 100 | 90 | 90 | 530 | G. Status Information | |

D. Description & Justification

DESCRIPTION

This program provides for the engineering audit, design, construction, maintenance, and monitoring and verification necessary to replace and upgrade energy consuming equipment and systems at all major Commission facilities. All projects included in the program will provide a reduction in energy and energy-related costs (electricity, fuel oil, natural gas, or other fuel). The program will maintain or enhance existing operating conditions and reliability while continuing to meet all permit requirements and ensuring a continued commitment to environmental stewardship at WSSC sites. Energy conservation measures may include, but are not limited to, the replacement or upgrade of water and wastewater process equipment, aeration equipment, piping, valves and motors, sludge dewatering/thickening equipment, grit removal, effluent disinfection systems, wastewater pumps, water pump/valve/motor replacement and rebuild, pump instrumentation, flow metering, power measurement, incinerator upgrades, peak shaving and backup power generation systems, variable speed drives, HVAC equipment/systems, and lighting. A baseline is established for each energy conservation measures (equipment upgrades) are implemented. After all construction is completed and accepted by the WSSC, the combined baseline for all energy conservation measures will be compared annually to the actual energy savings to quantify the savings. The program will be completed in several phases. Additional details on each phase are included in the "Specific Data" section below.

JUSTIFICATION

Plans & Studies

Stearns & Wheler, Western Branch Study BNR Modifications (Cyclical Aeration) (June 1996); Water Environment Federation, Energy Conservation for Wastewater Treatment Facilities (1997); EMA, WSSC Operations Branch Competitiveness Assessment (January 1997); EMA, WSSC Adopt Best Practices Report, Competitive Action Plan, TPO Work Team (June 1999); Stearns & Wheler, Western Branch Aeration Study (July 2000); O'Brien & Gere Study, Potomac Filtration Plant Water Quality and Electric Reliability; Energy Information Administration (Department of Energy), Annual Energy Outlook 2002 with Projections to 2020 (December 2001); American Water Works Association Research Foundation, Best Practices for Energy Management; In-house Study (April 2002); The Khepra Group, Potomac Water Filtration Plant Pump Systems Evaluation (May 2008).

Specific Data

Phase I of the Energy Performance Program was awarded to Constellation Energy Projects and Services (CEPS) in March 2001. Phase I included detailed engineering audits, supply analysis, engineering, and planning of equipment and operations upgrades to

Land Status:No land or R/W involved% Project Completion:Not ApplicableEst. Completion Date:(See "Specific Data" for details.)

H. Map Map Reference Code:

MAP NOT APPLICABLE

Agency Number: A - 103.00

Project Name: Energy Performance Program

develop an energy efficient and guaranteed savings program Commission-wide. The Phase IIA implementation plan, awarded in December 2002 and completed in May 2006, included detailed design, construction, maintenance, savings monitoring, and energy/energy-related savings guarantee at the Western Branch, Parkway, Piscataway, and Damascus WWTPs and the RGH Office Building.

Phase IIB was awarded to CEPS in August 2006 and includes detailed design, construction, maintenance, savings monitoring, and energy/energy-related savings guarantee for incinerator upgrades at the Western Branch WWTP, backup/peak-shaving enginegeneration system at the Seneca WWTP, and the addition of smaller, more efficient pumps at the Anacostia No. 2 WWPS to handle average dry daily flows. The construction of the Seneca and Anacostia components of the Phase IIB project were completed in October 2008, and Anacostia No. 2 WWPS pumps are contributing to a major decrease in electricity consumption. The Seneca generator is available for emergency back-up duty, and ready for peak-shaving starting in the summer of 2009. Incinerator upgrades at Western Branch are proceeding ahead of schedule. The upgrade to Incinerator #1 is 95% complete and start-up is expected in June 2009. As soon as Incinerator # 1 is operational, Incinerator #2 will be shut down and the contractor will begin on interior modifications. Completion of both incinerators is expected in early 2010.

Projects included in Phases IIA and IIB are guaranteed by CEPS to reduce energy-related costs. The guaranteed reduction includes annual avoided energy costs as well as operations and maintenance, chemicals, and biosolids disposal cost savings. CEPS will pay the WSSC for any yearly shortfall if the total guaranteed savings figure is not achieved. If the actual savings exceed the guaranteed amount, the WSSC retains the savings on a yearly basis. The energy guarantee for Phase IIA and Phase IIB work is specified for a period of 15 years as mandated by the State of Maryland. The energy savings for projects completed under Phase IIA have surpassed the contract's guaranteed amount of \$700,000/year for the first three years of the monitoring and verification period. The annual energy guarantee from Phase IIB is projected to be \$860,000 in the first year.

Phase IIC, awarded in March 2004, includes the supply of electricity generation and transmission for a period of 15 years. Phase IIC was amended in December 2006 to include 33% of generation from renewable wind power at a fixed price for a 10-year period, starting in 2008. Phase IIC, including the amendment for wind energy, does not involve any capital funds.

Phase IID will provide for instrumentation, pump replacement, pump rebuild, and valve and piping modifications at the Raw Water Pumping and Main Zone Pumping Stations and underground mains located within the Potomac Water Filtration Plant. The procurement, project delivery method, specifications, and scope of work will be defined during Phase IID with design/construction beginning in the second half of FY'10. Phase IID was awarded to Energy Systems Group (ESG) in March 2009. ESG has performed initial engineering analysis and additional pump tests, and is expected to deliver a preliminary Phase IID proposal in August 2009. During field investigations, it was noted that the new electrical controls and electrical code upgrades were required, as well as a small new building addition to maintain adequate clearances around the electrical gear at Raw Water Pumping Station (RWPS) #1. For this reason, we have added \$1,500,000 in capital costs to the Phase IID project, with only a small portion expected to be received in the form of energy savings. It is anticipated that this cost can be partially offset through federal grant funding which we hope to receive in the next round of stimulus or energy efficiency EPA/DOE appropriations.

The planned Phase IID work will initially include replacing only one pump in the Main Zone Pumping Station. However, the remaining pumps in the Main Zone Pumping Station are 40-50 years old and have reached their economic useful life. New instrumentation included in Phase IID (power monitors to measure amperage, voltage, power factor, kw, and pressure transducers on pump discharges) will more accurately monitor and track pump efficiency, allowing us to identify and prioritize the replacement of additional pumps and variable frequency drives based upon efficiency and reliability data. Future pump replacements at Potomac are not currently included in the expenditure schedule above and could add an additional \$6,000,000 under Phase IID, extending the program into FY'15, if warranted based upon the cost analysis.

Phase IIE was added in the FY 2011 CIP to take advantage of federal and state incentives making the cost of on-site generated photovoltaic (PV) power competitive with conventional or "brown" power. State Renewable Portfolio Standards, Alternative Compliance Payments (ACP), and federal stimulus grant programs geared towards renewable energy programs all have contributed to a favorable environment to construct a 1 MW solar PV system at the Western Branch WWTP (Prince George's County) and the Potomac WFP (Montgomery County) through one of the following methods:

* Design-Build-Operated by WSSC, leveraging partial federal grant funds with the remaining capital paid 100% by energy savings through the Energy Performance Program. Energy savings would be defined as the avoided cost of the brown power not purchased by WSSC replaced by clean and "free" solar power instead.

Agency Number: A - 103.00 Project Name: Energy Performance Program

* Purchase Power Agreement (PPA), similar to our wind farm agreement, where the WSSC would negotiate a long-term (20 year) agreement with a power provider to buy electricity at a fixed rate/kWh. The provider would design, build, and operate the solar PV system on WSSC property, with WSSC's input, engineering, and operational interface.

Both of these options require that the Renewable Energy Credits (RECs) be sold to an electric supplier to generate the revenue required for debt retirement or to lower the solar generated electric rate to a price competitive or lower than comparable brown power.

Cost Change

Cost estimates were increased to include the additional electrical work described above for Phase IID and the new Phase IIE (Solar PV-Western Branch and Potomac).

STATUS Under Construction (WSSC Contract Nos. AM3614E03, CD3614A03, CD3614B03, CD3614C03, CD3614D03, CD3614H03, CD3614F03).

<u>OTHER</u>

The project scope has remained the same. Phase IID expenditures shown for Planning, Design & Supervision include estimates for annual maintenance, warranty, performance bond, and monitoring and verification (M&V). The annual maintenance and M&V costs are estimated to continue for a period not exceeding 15 years. The program will be financed where possible by a low interest loan through the Maryland Department of the Environment's Water Quality Administration State Revolving Loan Program. Additional savings in the form of Carbon Credits are estimated to be captured starting in FY'11, within the Regional Greenhouse Gas Initiative (RGGI) auction process established by the Maryland Department of the Environment, or through the expected Federal Cap and Trade program. The value of these credits is expected to add approximately 5-7% to the anticipated annual energy savings from the installation of energy efficient equipment in the WSSC's wastewater treatment, water treatment, and wastewater pumping stations included in this program.

Phase IIE expenditures are based on the assumption that each project site (1 MW solar PV at Western Branch, 1 PV at Potomac) will receive partial federal grant fund assistance, either through a future year block grant or competitive grant program (DOE or EPA) for renewable energy. For budget purposes, a \$2 million grant was assumed for each of the sites.

COORDINATION

Montgomery County Government (including coordination with the County's ICEUM Committee), Prince George's County Government and WSSC Projects W-73.16, Potomac WFP Improvements and W-73.19, Potomac WFP Outdoor Substation No. 2 Replacement.

| - | nation | | 2. Dat | te: Octol | ber 1, 200 | 9 / | . Pie PDi | F F9.NO | o. Req. | Adeq. Pu | ю. гас. | E. Annual Operating Budget Impact (000 | (S) FY of Impact |
|---|---|---|--|---|---|---|---|---|--|---|---|--|------------------|
| 1. Project Number Agency Number | Update | Code | Revis | | | | | | | | | Program Costs Staff | |
| A-103.01 | Change | | Revis | ed: | | | | | | | | Other Facility Costs Maintenance | |
| 3. Project Name: Anaerobic Digestio | on/Combin | ed Heat & | Power (| Seneca & | Piscataw | ay WW 5 | 5.Agency: | WS | SSC | | | Debt Service | 1168 15 |
| 4. Program: Sanitation 6 | Planning | g Area: | Bi-Co | unty | | | | | | | | Total Costs Impact on Water or Sewer Rate | 1168 15 2¢ 15 |
| B. | | E | xpenditu | re Sched | ule (000': | s) | | | | | | F. Approval and Expenditure Data (000's |) |
| | (8) | (9) Thru | (10) Estimate | (11) Total | (12) Year 1 | (13) Year 2 | (14) Year 3 | (15) Year 4 | (16) Year 5 | (17) Year 6 | (18) Beyond | Date First in Capital Program | , FY 10 |
| Cost Elements | Total | FY '09 | FY '10 | 6 Years | FY '11 | FY '12 | FY '13 | FY '14 | FY '15 | FY '16 | 6 Years | | |
| Planning, Design & Supervision | 3,880 | | 290 | 3,590 | 390 | 500 | 2,000 | 700 | | | | Date First Approved | FY 10 |
| Land | | | | | | | | | | | | Initial Cost Estimate | 345 |
| Site Improvements & Utilities | | | | | | | | | | | | Cost Estimate Last FY | 345 |
| Construction | 26,700 | | | 26,700 | 900 | 4,500 | 14,000 | 7,300 | | | | Present Cost Estimate | 33,638 |
| Other | 3,058 | | 29 | 3,029 | 129 | 500 | 1,600 | 800 | | | | Approved Request, Last FY | 230 |
| Total | 33,638 | | 319 | 33,319 | 1,419 | 5,500 | 17,600 | 8,800 | | | | Total Expenditures & Encumbrances | |
| С. | | | Funding | Schedul | e (000's) | | | | | | | Approval Request FY 11 | 1,419 |
| WSSC Bonds | 13,392 | | 64 | 13,328 | 568 | 2,200 | 7,040 | 3,520 | | | | Supplemental Approval Request | |
| Federal Aid | 20,246 | | 255 | 19,991 | 851 | 3,300 | 10,560 | 5,280 | | | | Current FY (10) | |
| and disposal of biosolids) which is annual avoided energy costs as program will enhance existing op continued commitment to enviror of anaerobic digestion equipment dewatering/thickening equipment combined heat and power general of the project, or a portion of it, is usage/costs and biosolids haulin implemented. After all construct measures will be compared annu- contractor will pay the WSSC for actual savings exceed the guaran In March 2009, the WSSC receive phase. The WSSC will continue JUSTIFICATION Plans & Studies Appel Consultants, Urban Waste Combined Heat and Power at Wa Generation Options for WSSC, (I | well as op perating co nmental st it, gas clea t, grit remo ation syste accomplis g and disp ion is com ually to the any yearl nteed amo | erations a nditions a ewardship ning syste oval, efflue ems. shed as ar osal costs pleted and actual en y shortfall ount based ral Depart federal ca | nd mainti and reliabi o at WSS ems, hyd ent disinfe n Energy s before t d accepte hergy sav if the tota d on a yea ment of E apital fund | enance, c ility while C sites. T rogen sulf ection sys Performa the energy ed by the ings to de al guarant arly verific Energy gra ding as th | hemicals, continuing The scope fide and s tems, inst nce Proje / conserva WSSC, th termine w eed savin cation, the ant of \$57 e specific | and bios g to meet of work iloxane re trumentat ct, a base ation mea le combin whether th gs figure WSSC r 1,000 for requirem | colids tran- all permit may inclu emoval, ta cion, flow r eline will b asures (ec ned baseli the guarant is not ach etains the the feasible nents of th | sportation requirement de, but is i inks, piping metering, p be establis juipment u ne for all e seed savin nieved on a savings. bility study e project o | and disp ents, and not limite g, valves power me hed to id pgrades) nergy co gs have l a yearly b /concept develop. | entify ene nservatio peen met. pasis. If the | s. The addition sludge nt, and ergy n . The he | H. Map Map Reference Code: MAP NOT APPLICABLE | |

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

E. Annual Operating Budget Impact (000's)

FY of Impact

A. Identification and Coding Information

Project Name: Anaerobic Digestion/Combined Heat & Power (Seneca & Piscataway WWTPs)

Specific Data

Agency Number: A - 103.01

The EPA is urging wastewater utilities to utilize this commercially available technology (anaerobic digestion) to produce power at a cost below retail electricity, displace purchased fuels for thermal needs, produce renewable fuel for green power programs, enhance power reliability for the wastewater treatment plant to prevent sanitary sewer overflows, reduce biosolids production and improve the health of the Chesapeake Bay, and to reduce greenhouse gas (GHG) and other air pollutants. In April 2009, the EPA announced that greenhouse gases contributed to air pollution that may endanger public health or welfare, and began proceedings to regulate CO2 under the Clean Air Act.

Based on the EPA's engineering "rules of thumb" for considering combined heat and power generation systems at a wastewater treatment plant as well as construction costs for similar plants, the Production Team believes that a capital investment of \$15,000,000 for each plant (Seneca and Piscataway) will result in an estimated savings of \$1,250,000/year per plant in lower electricity and biosolids production costs based in part upon improved solids thickening (4% prior to digestion), two-stage digestion (to improve gas production and digester efficiency), process building, pumps, piping, heat exchangers, and 750 kW fuel cell generator, and Class A biosolids (potential) output for each plant. Funding source estimates are based on federal grant funding for 80% of feasibility/conceptual design study (already announced) and 60% of construction and/or capital costs (projected based on future expected federal grant).

Cost Change

Cost estimates were increased to show an Order of Magnitude estimate of design and construction costs.

STATUS Planning

<u>OTHER</u>

The project scope has remained the same. The project name was changed to more closely align it with the federal grant designation. The feasibility study phase of the project includes analysis and recommended anaerobic process (Mesophilic or Thermophilic); analysis of potential enhancements to optimize gas production; viability of grease trap waste disposal for added energy recovery utilizing WSSC FOG Report recommendations; evaluation of digester processes, evaluation of optimum Solids Residence Time (SRT), etc., to produce Class A or Class B biosolids; odor control mitigation; operational impacts (and mitigation methods) to the liquid side to maintain the integrity and reliability of the Enhanced Nutrient Removal (ENR) design of both plants; analysis of potential biosolids problems including fecal regrowth and odor quality; analysis of engine, turbine, and fuel cell power systems and heat recovery options; and development of preliminary capital cost and lifecycle cost estimates.

The study consists of three Tasks: Task I will provide a technology overview to develop preliminary costs and equipment requirements to allow identification of the options that best support the WSSC's long-term goals; Task II will further develop the selected alternatives to provide detailed cost estimates and equipment requirements, and will provide a Basis of Design document to guide subsequent detailed design; and Task III will summarize the recommendations in a technical report to the Commission.

At the completion of the feasibility study, the Commission will have a defined scope, capital cost, and energy and energy-related cost savings estimates (including GHG credit savings) to be able to proceed with the detailed design and construction of the Biogas and combined heat and power generation system facility. As part of the feasibility study, the digestion and side stream, odor control, and all primary processes will be determined, as will the bi-product selection and generation technology, size, and capacity of all major process equipment.

It is envisioned that either the entire project, or only the portion of the project that includes the production of bio-methane, methanol, or combined heat and power, include a guarantee by the Contractor that the capital cost will be paid back 100% from energy and energy-related cost savings with the payback period not exceeding 15 years. The energy savings for other completed WSSC Energy Performance projects have surpassed the contracts' guaranteed amount every year of the monitoring and verification period. The annual energy and energy-related savings guarantee of the energy performance portion of the project is estimated to be \$2,500,000 for both plants.

Additional savings in the form of Carbon Credits are estimated to be captured starting in FY'11, within the Regional Greenhouse Gas Initiative (RGGI) auction process established by the Maryland Department of the Environment or through a new Federal Cap and Trade Program. The value of these credits is expected to add approximately 10-15% to the anticipated annual energy and energy-related (biosolids reduction) savings from the installation of energy efficient equipment in the WSSC's wastewater treatment plants included in this program. We will be able to develop more detailed information on which to base a more accurate estimate of the value of these credits as State and Federal programs regulations are formalized.

Project Name: Anaerobic Digestion/Combined Heat & Power (Seneca & Piscataway WWTPs)

COORDINATION

Agency Number: A - 103.01

Montgomery County Government, Prince George's County Government, Montgomery County Department of Environmental Protection, Maryland Department of the Environment, Prince George's County Department of Environmental Resources and WSSC Projects S-53.21, Seneca WWTP Enhanced Nutrient Removal, S-53.22, Seneca WWTP Expansion, Part 2 and S-96.12, Piscataway WWTP Enhanced Nutrient Removal.

NOTE This project supports 100% System Improvement.

| A. Identification and Coding Inform | mation | | 2. Da | te: Octo | ber 1, 200 |)9 7 | 7. Pre PD | F Pg.No.: | 8. Req. | Adeq. Pu | ıb. Fac. | E. Annual Operating Budget Impact (000's) | of Impact |
|--|---------------|-------------|------------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---|-----------|
| 1. Project Number Agency Number | Update | Code | | | , | | | | | | | Program Costs Staff | |
| A-104.00 | Change | ; | Revis | sea: | | | | | | | | Other | |
| 3. Project Name: Entrepreneurial Pr | rojects | | | | | 5 | 5.Agency: | WS | SSC | | | Debt Service | |
| 4. Program: Sanitation | 6. Planning | g Area: | | | | | | | | | | Total Costs Impact on Water or Sewer Rate | |
| | | | | | | | | | | | | Impact on water of Sewer Rate | |
| В. | | I | Expenditu | ire Sched | lule (000' | s) | 1 | 1 | | r | | F. Approval and Expenditure Data (000's) | |
| | (8) | (9) Thru | (10) Estimate | (11) Total | (12) Year 1 | (13) Year 2 | (14) Year 3 | (15) Year 4 | (16) Year 5 | (17) Year 6 | (18) Beyond | Date First in Capital Program | TY 06 |
| Cost Elements | Total | FY '09 | FY '10 | | FY '11 | FY '12 | FY '13 | FY '14 | FY '15 | FY '16 | 6 Years | | T 00 |
| Planning, Design & Supervision | | | | | | | | | | | | | |
| Land | | | | | | | | | | | | | 3,900 |
| Site Improvements & Utilities | | | | | | | | | | | | | ,957 |
| Construction | 1,820 | 371 | 332 | 1,117 | 279 | 159 | 235 | 54 | 382 | 8 | | Present Cost Estimate | 2,031 |
| Other | 211 | | 48 | 163 | 41 | 23 | 34 | 8 | 56 | 1 | | Approved Request, Last FY | 312 |
| Total | 2,031 | 371 | 380 | 1,280 | 320 | 182 | 269 | 62 | 438 | 9 | | Total Expenditures & Encumbrances | 371 |
| С. | | | Funding | g Schedu | le (000's) | | | | | | | Approval Request FY 11 | 320 |
| Contribution/Other | 2,031 | 371 | 380 | 1,280 | 320 | 182 | 269 | 62 | 438 | 9 | | Supplemental Approval Request | |
| D. Description & Justification | | • | • | • | • | | | | | | | Current FY (10) | |
| DESCRIPTION | | | | | | | | | | | | | |
| This project represents a consol | lidation of o | capital pr | ojects tha | t generate | e additiona | al revenue | es through | n the sale | of produc | ts, servic | es, | G. Status Information | |
| and/or real property as part of a | | | | | | | | | | | | Land Status: Not applicable | |
| AFB Contract SP0600-04-C-825 | 50. Expend | litures for | r renewal a | and replac | cement ar | e expecte | ed to conti | nue for the | e entire c | ontract te | rm. | % Project Completion: Not Applicable | |
| JUSTIFICATION | | | | | | | | | | | | Est. Completion Date: FY 2054 (See "Other" for de | talis.) |
| Plans & Studies | | | | | | | | | | | | H. Map Map Reference Code: | |
| "Replace/Add Water Mains and | Valves, Pr | roject BX | UR95-104 | 2, Bolling | Air Force | Base" (J | uly 1995) | ; "Study R | eport for | Project B | XUR92- | | |
| 1221 Sanitary Sewer Main Stud | | | | | | | | | | | | | |
| Renewals and Replacements Pl Resolution Number 2003-1657 (| | | Water & V | Vastewate | er System | s," Malco | Im Pirnie, | Inc. (Sep | tember 20 | 000); WS | SC | | |
| Specific Data | (0010501 2 | 002). | | | | | | | | | | | |
| Under the terms of the contract, | the WSS0 | C will owr | n, operate | , and mair | ntain the E | Bolling AF | B water a | ind wastev | vater syst | ems for a | a 50- | | |
| year term (ending in June 2054) | , implemei | nt an Initi | al Capital | Upgrades | s plan to b | ring the s | systems u | p to WSS | C standar | ds, and th | hen | | |
| maintain that standard through a include: 5,253 feet of sewer ma | | | | | | | | | | | | | |
| pumping station; installation of a | a grinder p | ump; and | l upgrades | s to 8 wate | er meter v | aults. Th | e expend | | | | | MAP NOT APPLICABLE | |
| contained in the Modified Initial | Capital Up | grades P | lan subm | tted by the | e DESC o | n May 21 | , 2007. | | | | | | |
| Cost Change | | | | | | | | | | | | | |
| Not Applicable | | | | | | | | 504004 | A 05 50 | 4000405 | | | |
| STATUS Not Applicable (WSSC Cor FS4087A05, EW4974Z09 | | | 28A05, EN | W4088A0: | 5,F5402 | 9A05,FS | 54030A05 | , FS4031 | AU5, FS | 4032A05 | , | | |
| <u>OTHER</u> | | | | | | | | | | | | | |
| The project scope has remained adjusted periodically to account | | | | | | | | | | | | | |
| WSSC will own, operate, and m | | | | | | | | | | | | | |
| water supply and wastewater tre | eatment wil | Il continu | e to be su | pplied to E | Bolling AF | B by the | District of | | | | | | |
| Authority. The project estimated | a completio | on date re | eters to th | e length o | t the cont | ract - 50 y | years. | | | | | | |
| COORDINATION | | | | | | | | | | | | | |
| District of Columbia Water & Se | wer Autho | rity and E | Bolling Air | Force Bas | se. | | | | | | | | |

| A. Identification and Coding Inform | nation | | 2. Da | te: Octo | ber 1, 200 |)9 7 | '. Pre PDF | Pg.No.: | 8. Req. | Adeq. Pu | ıb. Fac. | E. Annual Operating Budget Impact (000 |)'s) FY of Impact |
|---|-------------|--------------|------------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--|-------------------|
| 1. Project Number Agency Number | Update | | Revis | | | | | | | | | Program Costs Staff | |
| A-105.00 | Change | | | eu. | | | | | | | | Other Facility Costs Maintenance | |
| 3. Project Name: Water Storage Fac | cility Reha | bilitation I | Program | | | 5 | 5.Agency: | W | SSC | | | Debt Service | 1570 17 |
| 4. Program: Sanitation 6 | 6. Plannin | g Area: | Bi-Co | ounty | | | | | | | | Impact on Water or Sewer Rate | 1570 17 |
| | | | | | | | | | | | | | 3¢ 17 |
| В. | (-) | 1 | - | Ire Sched | - | - | (| () | (| () | (| F. Approval and Expenditure Data (000's | (ذ |
| | (8) | (9) Thru | (10) Estimate | (11) Total | (12) Year 1 | (13) Year 2 | (14) Year 3 | (15) Year 4 | (16) Year 5 | (17) Year 6 | (18) Beyond | Date First in Capital Program | FY 09 |
| Cost Elements | Total | FY '09 | FY '10 | 6 Years | FY '11 | FY '12 | FY '13 | FY '14 | FY '15 | FY '16 | 6 Years | Date First Approved | FY 09 |
| Planning, Design & Supervision | | | | | | | | | | | | Initial Cost Estimate | 18,000 |
| Land | | | | | | | | | | | | | |
| Site Improvements & Utilities | | | - 000 | | 4 0 0 0 | 5 0 0 0 | 5 000 | | | | | Cost Estimate Last FY | 18,000 |
| Construction | 34,000 | | 5,000 | 29,000 | 4,000 | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 | | Present Cost Estimate | 34,000 |
| Other | | | | | | | | | | | | Approved Request, Last FY | 3,000 |
| Total | 34,000 | | 5,000 | 29,000 | 4,000 | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 | | Total Expenditures & Encumbrances | |
| С. | 1 | P | Funding | g Schedu | le (000's) | | | | | | | Approval Request FY 11 | 4,000 |
| WSSC Bonds | 34,000 | | 5,000 | 29,000 | 4,000 | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 | | Supplemental Approval Request | |
| D. Description & Justification | | | | | | | | | | | | Current FY (10) | |
| DESCRIPTION | | | | | | | | | | | | | |
| The Water Storage Facility Reha | | | | | | | | | | | | G. Status Information | |
| facilities located throughout the structural metal and concrete for | | | | | | | | | | | | Land Status: Not applicable % Project Completion: On-Going | |
| upgrades, advanced mixing syst | | | | | | | | | | | Junty | Est. Completion Date: On-going | |
| * EXPENDITURES FOR WATER | | | | | | | | | | | | | |
| | N STORA | | DILITAN | | | 01000 | | NDEFIN | | | | H. Map Map Reference Code: | |
| Service Area Bi-CountyArea | | | | | | | | | | | | | |
| JUSTIFICATION | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Specific Data | | ka whaaa | loot point | ing contro | ot was fin | iched too | | | Manya | ldor toolo | hour | | |
| Currently there are more than 20 accumulated significant layers of | | | | | | | | | | | | | |
| to be completely removed and co | ostly lead | abatemer | nt techniq | ues will be | e required | l in many o | cases. Tł | ne recomi | nended p | ractice is | to do | | |
| this extra work every third re-coa service between coatings from the | | | | | | | | tems shou | Id extend | the leng | th of | MAP NOT APPLICAB | LE |
| Cost Change | | io yearo | 10 001101 | | | 5 20 years | | | | | | | |
| The Program has been increase | ed in order | to more o | quickly rea | duce the b | acklog of | tanks req | uiring reh | abilitatior | | | | | |
| STATUS Not Applicable | | | | | - | | | | | | | | |
| OTHER | | | | | | | | | | | | | |
| The project scope has remained | | | | | | | | | | | | | |
| issues. The Program plan for F Lane, Air Park, North Woodside, | | | | | | | | | | | | | |
| | , Jennani | | | a ole i light | ianus, rai | 13 I.Uau, I | orest i le | igino, anu | | 1000 1105 | 0170113. | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

| | ntification and Coding Information 2. Date: October 1, 2 | | | | | | | | | Adeq. Pu | b. Fac. | E. Annual Operating Budget Impact (000's |) FY of Impact |
|--|--|---|---|---|---|---|---|---|---|--|---------------------------------------|---|----------------|
| 1. Project Number Agency Number | Update | Code | | | | | | | | | | Program Costs Staff | |
| A-106.00 | Change | | Revis | ea: | | _ | | | | | | Other Facility Costs Maintenance | |
| 3. Project Name: Utility Master Plan | | | | | | 5 | 5.Agency: | WS | SC | | | Debt Service | 629 |
| 4. Program: Sanitation | 6. Planning | g Area: | Bi-Co | ounty | | | | | | | | Total Costs | 629 |
| | | | | | | | | | | | | Impact on Water or Sewer Rate | 1¢ 18 |
| В. | | E | xpenditu | ire Schec | lule (000's | 5) | | | | | | F. Approval and Expenditure Data (000's) | |
| | (8) | (9) Thru | (10) Estimate | (11) Total | (12) Year 1 | (13) Year 2 | (14) Year 3 | (15) Year 4 | (16) Year 5 | (17) Year 6 | (18) Beyond | Date First in Capital Program | FY 10 |
| Cost Elements | Total | FY '09 | FY '10 | 6 Years | FY '11 | FY '12 | FY '13 | FY '14 | FY '15 | FY '16 | 6 Years | | |
| Planning, Design & Supervision | 13,643 | 3,675 | 2,395 | 6,300 | 1,200 | 1,100 | 1,000 | 1,000 | 1,000 | 1,000 | 1,273 | Date First Approved | FY 08 |
| Land | | | | | | | | | | | | Initial Cost Estimate | 6,900 |
| Site Improvements & Utilities | | | | | | | | | | | | Cost Estimate Last FY | 14,214 |
| Construction | | | | | | | | | | | | Present Cost Estimate | 14,640 |
| Other | 997 | | 240 | 630 | 120 | 110 | 100 | 100 | 100 | 100 | 127 | Approved Request, Last FY | 1,649 |
| Total | 14,640 | 3,675 | 2,635 | 6,930 | 1,320 | 1,210 | 1,100 | 1,100 | 1,100 | 1,100 | 1,400 | Total Expenditures & Encumbrances | 3,675 |
| C. | | | Funding | g Schedu | le (000's) | | | | | | | Approval Request FY 11 | 1,320 |
| WSSC Bonds | 8,022 | 1,301 | 1,591 | 4,290 | 924 | 726 | 660 | 660 | 660 | 660 | 840 | | |
| Water Operating Funds | 3,309 | 1,187 | 522 | 1,320 | 198 | 242 | 220 | 220 | 220 | 220 | 280 | Supplemental Approval Request Current FY (10) | |
| Sewer Operating Funds | 3,309 | 1,187 | 522 | 1,320 | 198 | 242 | 220 | 220 | 220 | 220 | 280 | | |
| D. Description & Justification <u>DESCRIPTION</u> This project provides for establis identify and examine overall infra (treatment, transmission, distribi (SCADA system, security servic antenna support structures). The rehabilatation/replacement need of the networks. Phase 1, compl 2008, developed a road map for complete the development of mag EXPENDITURES FOR THE UT | astructure ution, colle es, telepho e Plans wil ls. This effi leted in De establishin ore detaile | needs ov ection, pui ony, land I examine ort will bu ecember 2 ng an ass d Asset N | er the nex mping and mobile ra e existing ild on a n 2007, iden set manag Manageme | At 30 year d storage) dio syster and future umber of ntified high gement stu- ent Plans. | s. The Pla , buildings m, data ne e capacity previous a n level infra ructure. Fu | ns will en and grou twork, pa needs, re nd existir astructure inding in | compass unds, and ging syste egulatory r ng efforts e needs. T subseque | the water informatic em, micro- needs and that addre rack 2, Pl nt fiscal y | and wast on techno wave net ss partice nase 1, co | tewater ne logy asse work and ular comp ompleted | etworks ets ponents in April | Land Status:Not Applicable% Project Completion:P-20%Est. Completion Date:FY 2018H. MapMap Reference Code: | |
| JUSTIFICATION Plans & Studies WSSC Strategic Sewerage Stud Facility Master Plan Patuxent W (December 7, 2005); WSSC Dyn (April 2006); WSSC 2007 Annual Specific Data The initial phase of the project in 2007, review of completed and p inspections. Cost Change Planning level cost estimates we | FP (2000) namic Sew al Action Ité ncludes an blanned Sé | ; Potoma /er Syster em No 13 alysis of t ewer Syst | c Facility m Model (; Phase 1 the results em Evalu | Plan (200 Contract I High Lev | 2); WSSC No. CM42 vel Utility V aseline sev | Sanitary 59A05); \ Vide Mas | Sewer O WSSC Str ter Plan R m modelir | verflows C ategic Se Reports (D | onsent D werage S ecember ted in FY | ecree tudy Upda 2007). 's 2006 at | ate | MAP NOT APPLICABL | E |

D. DESCRIPTION & JUSTIFICATION (CONT.)

Agency Number: A - 106.00 Project Name: Utility Master Plan

OTHER

The project scope has remained the same. The program includes six phases. Phase 1 has been completed. Phase 2, which includes 18 projects to establish an asset management framework and develop 5 detailed Asset Management Plans (AMPs), is presently underway. Future phases will continue development of detailed AMPs for various types of assets.

COORDINATION

Maryland-National Capital Park & Planning Commission, Montgomery County Department of Environmental Protection and Prince George's County Department of Environmental Resources.

NOTE This project supports 100% System Improvement.

| A. Identification and Coding Inforn | nation | | 2. Dat | te: Octol | ber 1, 200 | 9 7 | 7. Pre PDF | Pg.No.: | 8. Req. | Adeq. Pu | b. Fac. | E. Annual Operating Budget Impact (000's) | FY of Impac |
|--|---|---|--|--|---|--|---|--|--|-----------------------------------|-------------------|--|-------------|
| 1. Project Number Agency Number | Update | Code | | | , | | | | | | | Program Costs Staff | |
| A-107.00 | Add | | Revis | ed: | | | | | | | | Other Facility Costs Maintenance | |
| 3. Project Name: Pressure Reducing | g Valve Re | habilitatio | on Progra | m | | 5 | 5.Agency: | W | SSC | | | Debt Service 14 | 35 |
| 4. Program: Sanitation 6 | 6. Planning | g Area: | Bi-Co | unty | | | | | | | | | 35 |
| | | | | | | | | | | | | Impact on Water or Sewer Rate | 3¢ |
| В. | | E | xpenditu | re Sched | lule (000': | s) | | | | | | F. Approval and Expenditure Data (000's) | |
| | (8) | (9) Thru | (10) Ectimato | (11) Total | (12) Voor 1 | (13) Xoor 2 | (14) Xoor 2 | (15) | (16) Xoor 5 | (17) Voor 6 | (18) Revend | | 51/ 0044 |
| Cost Elements | Total | Thru FY '09 | Estimate FY '10 | Total 6 Years | Year 1 FY '11 | Year 2 FY '12 | Year 3 FY '13 | Year 4 FY '14 | Year 5 FY '15 | Year 6 FY '16 | Beyond 6 Years | Date First in Capital Program | FY 2011 |
| Planning, Design & Supervision | 2,000 | 400 | 300 | 1,200 | 300 | 300 | 200 | 200 | 100 | 100 | 100 | Date First Approved | FY 2011 |
| Land | | | | | | | | | | | | Initial Cost Estimate | 17,560 |
| Site Improvements & Utilities | | | | | | | | | | | | Cost Estimate Last FY | |
| Construction | 14,000 | | 500 | 12,500 | 3,000 | 2,000 | 2,000 | 2,000 | 2,000 | 1,500 | 1,000 | Present Cost Estimate | 17,560 |
| Other | 1,560 | | 80 | 1,370 | 330 | 230 | 220 | 220 | 210 | 160 | 110 | Approved Request, Last FY | |
| Total | 17,560 | 400 | 880 | 15,070 | 3,630 | 2,530 | 2,420 | 2,420 | 2,310 | 1,760 | 1,210 | Total Expenditures & Encumbrances | 400 |
| С. | | | Funding | Schedul | e (000's) | | l l | | | | | Approval Request FY 11 | 3,630 |
| WSSC Bonds | 17,560 | 400 | 880 | 15,070 | 3,630 | 2,530 | 2,420 | 2,420 | 2,310 | 1,760 | 1,210 | | - 1 |
| D. Description & Justification | , | | | • | | | , | | , | , | | Supplemental Approval Request Current FY (10) | |
| relocate the structures and equip system operation. JUSTIFICATION Plans & Studies Candidate PRV's were originally 2007 memo from Karen Wright t Systems Control Group. Specific Data | identified i | in an Oct | ober 26, 2 | 2005 mem | no from Je | ff Asner 1 | to Karen V | Vright and | d a subse | quent Ma | y 7, | H. Map Map Reference Code: | |
| The facilities included in this pro- age deterioration, and obsolesce poor condition and need to be up 1955. Isolation valves no longer efficiency; (3) Adelphi Road PRV county road, and parts are of lim Cost Change Not applicable. STATUS Various Stages of Planning | ence. For the pgraded to r hold and r / - this faci | he valves include f need repl lity is loca | currently low contro acement. ated on a | under de ol to increa The PR\ 60" water | sign: (1) E ase efficie /'s need to r main and | Bright Sea Incy; (2) (D be upda I is in extr | at PRV - 3 Old Baltim ated to inc remely poo | 0" PRV b ore Ave. I lude flow or conditio | uilt in 197 PRV - 24" control to on, locate | 6. Valves PRV's bu increase | are in uilt in | | |

Appendices

WASHINGTON SUBURBAN SANITARY COMMISSION

- SUBJECT: A RESOLUTION modifying the System Development Charge (SDC) to help finance the capital costs of expanding and augmenting water and sewerage systems to accommodate service to subscribers in the Washington Suburban Sanitary District (WSSD) and to provide a financing mechanism to aid the Washington Suburban Sanitary Commission (Commission) in paying for the capital projects thereof by providing methods and procedures by which the SDC is to be implemented and/or collected.
- WHEREAS, the Maryland General Assembly enacted House Bill 883, Chapter 559, Laws of Maryland 1993, System Development Charge legislation during its 1993 Session, a bill which provides the enabling authority for the Montgomery and Prince George's County Councils to establish a fee which will be paid by applicants for new service; and
- WHEREAS, the Maryland General Assembly enacted House Bill 832, Chapter 713, Laws of Maryland 1998, System Development Charge legislation during its 1998 Session, a bill which, among other things, alters the schedule for the payment of the System Development Charge to the Commission for certain properties; establishes a new maximum System Development Charge per fixture unit; allows for and limits the amount of certain exemptions; establishes a maximum System Development Charge based on the number of toilets per dwelling; authorizes a change in the maximum System Development Charge for certain residential units based on the number of toilets per dwelling; and
- WHEREAS, the Maryland General Assembly enacted House Bill 667, Chapter 423, Laws of Maryland 2007, System Development Charge legislation during its 2007 session, a bill which allows for an exemption for certain properties used exclusively for programs and services to youth; and
- WHEREAS, the Maryland General Assembly enacted House Bill 1139, Chapter 441, Laws of Maryland 2009, System Development Charge legislation during its 2009 session, a bill which allows the youth exemption to certain properties used primarily for recreational and educational programs and services to youth; and

RESOLUTION NO. 2010-1873 Adopted: June 16, 2010 Effective Date: July 1, 2010

- WHEREAS, the Commission owns and operates various water treatment and sewage treatment disposal plants and facilities within the WSSD and utilizes and has an equity share in sewage treatment plants operated by other jurisdictions to treat sewage generated in portions of the WSSD; and
- WHEREAS, it is necessary that the Commission, with the advice and consent of the local governing bodies within the WSSD, develop alternative funding to cover the costs of providing quality water and sewer service in the WSSD and to similarly accommodate new growth therein as authorized by the County Governments; and
- WHEREAS, the System Development Charge is a component of the Commission's Fiscal Year 2011 capital and operating budgets prepared pursuant to §1-204, Article 29, Annotated Code of Maryland; and
- WHEREAS, the Commission last modified the System Development Charge effective July 1, 2009 by Commission Resolution No. 2009-1825; and
- WHEREAS, for all of the foregoing reasons it is necessary or desirable to continue the imposition of a System Development Charge fee; and
- WHEREAS, Chapter 713, 1998 Laws of Maryland provides that the Montgomery and Prince George's County Councils may adopt and the Commission may implement a System Development Charge not to exceed \$200.00 per fixture unit or, for residential properties with five or fewer toilets, not to exceed certain enumerated amounts based on the number of toilets per dwelling unit, effective July 1, 1998; and
- WHEREAS, Chapter 713, 1998 Laws of Maryland further provides that on July 1, 1999 and each July 1 of each succeeding year, the maximum charge may be changed by an amount equal to the prior calendar year's change in the consumer price index published by the Bureau of Labor Statistics of the United States Department of Labor for urban wage earners and clerical workers for all items for the Washington, D.C. metropolitan area; and
- WHEREAS, the consumer price index published by the Bureau of Labor Statistics of the United States Department of Labor for urban wage earners and clerical workers for all items for the Washington, D.C. metropolitan area increased 2.1% from November 2008 to November 2009; and
- WHEREAS, the Commission recommends keeping the System Development Charge rates unchanged for FY'11. However, the Commission recommends increasing

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the maximum allowable charge by 2.1% from FY'10 limits in order to maintain future rate flexibility to address future potential growth funding gaps; and

- WHEREAS, the County Councils of Prince George's County and Montgomery County have approved the modifications to the System Development Charge set forth below.
- **NOW, THEREFORE, BE IT RESOLVED** THIS 16th day of June, 2010, that the Commission hereby adopts the approved System Development Charge fee schedule as set forth herein. For the purposes of this Resolution, the following definitions apply:

Definitions:

- 1) <u>Apartment Unit</u> means one of several single family residential units within one building that is not a "multi-unit dwelling." An "apartment unit" must contain at least one full bath and kitchen, but not more than two toilets. An "apartment unit" typically includes, but is not limited to, an individual dwelling unit in a garden, medium or high-rise type residential building.
- 2) <u>Biotechnology Research and Development or Manufacturing</u> means any development as jointly defined and approved by the Montgomery and Prince George's County Councils as eligible for a waived System Development Charge, more particularly described in Schedule C, attached.
- 3) <u>Drainage Charge</u> is the portion of the System Development Charge applicable to drainage fixture units for apartments and residential properties having five or fewer toilets.
- 4) <u>Drainage Fixture Unit Value</u> is a measure of the probable discharge into the drainage system by a particular plumbing fixture in terms of volume rate of discharge and duration of a single drainage operation and the time between successive operations.
- 5) <u>Dwelling Unit</u> means a single-family housing unit used as a residence, including trailers and mobile homes.
- 6) <u>Elderly Housing</u> means residential units as jointly defined and approved by the Montgomery and Prince George's County Councils as eligible for a waived System Development Charge, more particularly described in Schedule D, attached.
- 7) <u>Hookup</u> means the joining of the on-site water and/or sewer line(s) to the Commission's service connection or the installation of plumbing fixtures in a building served by the Commission's water and/or sewer facilities.

- 8) <u>Multi-Unit Dwelling</u> means a building that will accommodate several housing units on a lateral basis; namely, semi-attached houses, row houses, or townhouses used as residences.
- 9) <u>New Service</u> means:
 - a) the first-time hook-up of a property to the Commission's water and/or sewer system; or
 - b) a new connection or increased water meter size for a property previously or currently served by the Commission if the new connection or increased meter size is needed because of a change in the use of the property or an increase in demand for service at the property.
- 10) <u>Non-Residential Unit</u> is a structure not otherwise defined as a Residential Unit, generally commercial or industrial in nature. Examples may include shopping malls, non-residential townhouses, warehouses, industrial buildings, restaurants, schools, dormitories, hospitals, hotels, motels, nursing homes, office buildings, churches, theaters, and similar commercial or industrial buildings.
- 11) <u>Property Used Primarily for Recreational and Educational Programs and</u> <u>Services to Youth</u> means real property, owned in fee simple, by a Community-Based Organization as jointly defined and approved by the Montgomery and Prince George's County Councils as eligible for a System Development Charge exemption, more particularly described in Schedule F, attached.
- 12) <u>Public Sponsored or Affordable Housing</u> means units as jointly defined and approved by the Montgomery and Prince George's County Councils as eligible for a waived System Development Charge, more particularly described in Schedule A, attached.
- 13) <u>Residential Unit</u> means any housing unit defined in Paragraphs 1, 5, and 8 above used as a residence.
- 14) <u>Revitalization</u> means any development as jointly defined and approved by the Montgomery and Prince George's County Councils as eligible for a waived System Development Charge, more particularly described in Schedule B, attached.
- 15) System Development Charge means that charge imposed by the Commission pursuant to the provisions of §6-113, Article 29, Annotated Code of Maryland. (Maximum allowable System Development Charge is the maximum charge authorized by law, but not necessarily imposed in a given year.)

- 16) <u>Toilet</u> is a water closet as set forth in the WSSC Plumbing and Fuel Gas Code; and
- 17) <u>Water Supply Charge</u> is the portion of the System Development Charge applicable to water supply fixture units for apartments and residential properties having five or fewer toilets; and
- 18) <u>Water Supply Fixture Unit Value</u> is a measure of the probable hydraulic demand on the water supply by a particular plumbing fixture in terms of volume rate of supply and duration of a single supply operation and the time between successive operations; and

BE IT FURTHER RESOLVED, that the System Development Charge rates for FY'11 shall be as follows:

| Property Type | FY'11 Charge | Maximum Allowable Charge |
|----------------------------------|-----------------|-----------------------------|
| Apartment Unit | | |
| Water | \$896 | \$1,152 |
| Sewer | 1,140 | 1,467 |
| 1-2 Toilets / Residential | - | · |
| Water | 1,344 | 1,728 |
| Sewer | 1,710 | 2,197 |
| 3-4 Toilets / Residential | | |
| Water | 2,240 | 2,881 |
| Sewer | 2,850 | 3,663 |
| 5 Toilets / Residential | | |
| Water | 3,135 | 4,031 |
| Sewer | 3,991 | 5,132 |
| 6 or More Toilets / Residential* | | |
| Water | 88 | 113 |
| Sewer | 115 | 149 |
| Non-Residential* | | |
| Water | 88 | 113 |
| Sewer | 115 | 149 |
| *Per Fixture Unit | | |

(The System Development Charge for non-residential properties and dwelling units or multi-unit dwellings with more than five toilets shall be based on the number of plumbing fixtures and the assigned values for those fixtures as set forth in the WSSC Plumbing and Fuel Gas Code.); and

BE IT FURTHER RESOLVED, that the System Development Charge, as established herein, shall be paid to the Commission at the time of application for plumbing

permit to install fixtures or hookup(s) to the Commission's water and/or sewage system(s) except that an applicant for a plumbing permit for a residential unit may pay the System Development Charge in two payments as follows:

- 1) One-half at the time of Plumbing Permit Application;
- 2) The remaining one-half within 12 months after the first payment or prior to the transfer of title to the property, whichever occurs first.

At the time of the first payment, the applicant for the plumbing permit for a residential unit shall deposit with the Commission security for the second payment in an amount and form established and approved by the Commission; and

- **BE IT FURTHER RESOLVED**, that the fees established herein shall be in addition to, and not a substitution for, any other fees, rates, charges, or assessments allowed by law; and
- **BE IT FURTHER RESOLVED**, that the System Development Charge shall be waived for any public sponsored or affordable housing as defined in Schedule A; and
- **BE IT FURTHER RESOLVED**, that the System Development Charge shall, subject to the below provisions of this Resolution No. 2010-1873, be waived for Revitalization projects as defined in Schedule B; and
- **BE IT FURTHER RESOLVED**, that the System Development Charge partial exemptions for Elderly Housing are established by Schedule E; and
- **BE IT FURTHER RESOLVED**, that the System Development charge, subject to the below provisions of this Resolution No. 2010-1873, be waived, up to \$80,000, for Properties Used Primarily for Recreational and Educational Programs and Service to Youth as defined in Schedule F; and
- **BE IT FURTHER RESOLVED**, that the System Development Charge partial exemptions for Biotechnology Research and Development or Manufacturing shall be \$18 per water supply fixture with an assigned fixture unit value of 1 and \$25 per drainage fixture with an assigned drainage fixture unit value of 1, or \$43 per combined fixture unit value; and
- **BE IT FURTHER RESOLVED**, that the County Councils of Prince George's and Montgomery Counties may adopt implementing resolutions for System Development Charge partial exemptions for Biotechnology Research and Development or Manufacturing, and Elderly Housing as defined in Schedules C

and D, and the System Development Charge full exemption for Revitalization as defined in Schedule B. The amount of the aforementioned full and partial exemptions authorized by this Resolution No. 2010-1873 for individual properties or projects may be limited by the provisions of the aforementioned Council resolutions. In addition, the aforementioned full and partial exemptions authorized by this Resolution No. 2010-1873, except those granted for affordable housing (as defined on Schedule A), shall not take effect unless and until the Council for the County in which the exempted project is located adopts the said implementing resolution; and

- **BE IT FURTHER RESOLVED**, that nothing herein shall be construed as creating a contract between the Commission and the applicant for service, and that the providing of water and/or sewer service to an applicant's property shall be subject to intervention of other governmental authority; the duly adopted policies of Montgomery and Prince George's Counties, and the Commission's ability to otherwise provide such service; and
- **BE IT FURTHER RESOLVED**, that Commission Resolution No. 2009-1825 adopted June 4, 2009 on the same subject matter be, and the same is hereby superseded by this Commission Resolution No. 2010-1873; and
- **BE IT FURTHER RESOLVED**, that the System Development Charge established herein shall take effect on July 1, 2010.

A True Copy

Attest:

Charlett Bundy, Secretary

SCHEDULE A

"Public sponsored or affordable housing" means:

- any dwelling unit built or financed under a government program, regulation, or binding agreement that limits for at least 10 years the price or rent charged for the unit in order to make the unit affordable to households earning less than 80% of the area median income, adjusted for family size;
- 2) any Moderately Priced Dwelling Unit built under Chapter 25A of the Montgomery County Code or Subtitles 13 and 27 of the Prince George's County Code;
- 3) any Productivity Housing Unit, as defined in Section 25B-17 (k) of the Montgomery County Code;
- 4) any unit in an Opportunity Housing Project built under Sections 56-28 through 56-32 of the Montgomery County Code or Subtitle 13, Division 8, of the Prince George's County Code, which is reserved for occupancy only by persons with low or moderate incomes (as defined in applicable provisions of State and County Law);
- 5) any dwelling unit constructed pursuant to the Capturing Housing Opportunities in Communities Everywhere (CHOICE) Program in Prince George's County which is reserved for occupancy only by persons with low or moderate incomes (as defined in applicable provisions of State and County Law).

SCHEDULE B

- 1) "Revitalization" means a project located in one of the following geographic areas and meeting any additional criteria that may be adopted by the respective county council or applicable municipal council:
 - a) any state-designated revitalization area as defined by the Maryland Department of Housing and Community Development (DHCD).
 - b) any state-designated enterprise zone as defined by the Maryland Department of Business and Economic Development (DBED).
 - c) any federally-designated economic development district as defined by the U.S. Department of Commerce, Economic Development Administration (EDA).
 - d) any federally-designated empowerment zone and developable sites as defined by the U.S. Department of Housing and Urban Development (HUD).
 - e) any Transit District Overlay Zone (T-D-O Zone) as defined by Subtitle 27, Part 10A, Division 1, of the Prince George's County Code.
 - any Prince George's County designated revitalization area as defined in Subtitle 10 of the Prince George's County Code.
 - g) any state-designated Neighborhood Business Development Program, as defined in Subtitle 2, of Title 4, of Article 83B, of the Annotated Code of Maryland.
 - h) any Montgomery County designated neighborhoods, as determined by the Montgomery County Executive and County Council, as a revitalization neighborhood for activities that will act to preserve, stabilize, and enhance the social, physical, and economic conditions of the neighborhood. Activities may include concentrated housing code inspections and enforcement, housing rehabilitation, social service programs, public infrastructure improvements, and private and/or public capital investment.

"Biotechnology Research and Development or Manufacturing" means:

Any activity that substantially involves research, development, or manufacturing of:

APPENDIX A PAGE 10 OF 24

a. Biologically-active molecules;

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- b. Devices that employ or affect biological processes; or
- c. Devices and software for production or management of specific biological information.

SCHEDULE D

"Elderly Housing" include the following types of housing:

As defined in the Prince George's County Zoning Ordinance:

Sec. 27-107.01. Definitions

(a) Terms in the Zoning Ordinance are defined as follows:

| | (20.1) (54) (151.1) | Assisted Living Facility Congregate Living Facility Mixed Retirement Development |
|----------------|---------------------------|--|
| Sec. 27-352.01 | Elde | rly Housing (one-family attached dwellings) |
| Sec. 27-374 | Medi | ical / residential campus |
| Sec. 27-395 | Plan | ned retirement community |

OR

As defined in the Montgomery County Zoning Ordinance:

| Sec. 59-G-2.35 | Housing and related facilities for elderly or handicapped persons |
|------------------|---|
| Sec. 59-G-2.35.1 | Life Care (continuing care) facility |
| Sec. 59-C-7.4 | Housing constructed in a planned retirement community zone |

OR

As defined in a municipal zoning ordinance in a municipality having separate zoning powers and that is found by the Director of the Department of Housing and Community Affairs to be equivalent to the definition for the county in which the municipality is located. The review of equivalency should be based upon age of occupants and the inclusion of assisted living dwelling units.

SCHEDULE E

Maximum "elderly housing" exemptions are as follows:

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| 1. | Apartment unit | \$436.00 |
|------------|---|--|
| 2. | Dwelling unit or housing unit within a multi-unit dwelling with one or two toilets | \$654.00 |
| 3. | Dwelling unit or housing unit within a multi-unit dwelling with three or four toilets | \$1,090.00 |
| 4. | Dwelling unit or housing unit with a multi-unit dwelling with five toilets | \$1,526.00 |
| 5. exen | For other housing that meets the elderly housing nption criteria | Not more than \$43 per combined fixture unit value |

SCHEDULE F

1. "Property Used Primarily for Recreational and Educational Programs and Services to Youth" means:

Real property, owned in fee simple, by a Community-Based Organization, located within the Washington Suburban Sanitary District, which is used to advance the mission and purpose of providing programs and service to youth in Prince George's and/or Montgomery County.

2. "Community-Based Organization" means:

A not-for-profit entity duly incorporated in or authorized to do business by the State of Maryland and in good standing under the laws of the State of Maryland, which has as its primary mission and purpose to provide programs and services to youth in Prince George's and/or Montgomery County.

3. "Exempt from Taxation" means:

A not-for-profit, charitable or educational organization as determined by the Internal Revenue Service, under Section 501(c)(3) of the Internal Revenue Code.

STANDARD PROCEDURES OF THE WASHINGTON SUBURBAN SANITARY COMMISSION

| ORIGINATOR Joseph P. McNerney Customer Affairs Bureau Director | SPNUMBER CUS 98-01 Supersedes CUS 94-06 & CUS 93-02 | APPROVE BY/DATE | EFFECTIVE DATE July 1, 1998 | PAGE 1 OF 7 |
|---|---|-----------------|--------------------------------|----------------------|
| SUBJECT SYST | EM DEVELOPMEN | X I | 10N | |

PURPOSE

- 1.1 To document the levy, collection and deposit of the System Development Charge (SDC) in accordance with Article 29, §6-113 of the <u>Annotated Code of</u> <u>Maryland</u> and WSSC's Resolution No. 98-1555.
- 1.2 Define terms and phrases referencing SDC as commonly used in the issuance of plumbing permits.

DEFINITIONS

2.1 <u>Apartment Unit</u> means one of several single family housing units within one building and not specifically classified as a multi-unit dwelling, e.g., individual dwelling units in garden, medium and high-rise type residential buildings.

2.2 <u>Base SDC Fee</u> is the WSSC approved dollar charge for a plumbing fixture having a Drainage Fixture Unit Value and/or a Water Supply Fixture Unit Value of one for non-residential properties or residential units with more than five toilets. The Base SDC Fee for residential units with five or fewer toilets is the WSSC approved dollar charge based upon the unit's number of toilets

- 2.3 <u>Drainage Fixture Unit Value</u> is a measure of the probable discharge into the drainage system by a particular plumbing fixture in terms of volume rate of discharge and duration of a single drainage operation and the time period between successive operations.
- 2.4 <u>Dwelling Unit</u> means a single family housing unit used as a residence, including trailers and mobile homes.
- 2.5 <u>Hookup</u> means the joining of a property's on-site water and/or sewer line(s) to the Commission's service connection or the installation of plumbing fixtures in a building served by the Commission's water and/or sewer facilities.
- 2.6 <u>Multi-Unit Dwelling</u> means a building that will accommodate several housing units on a lateral basis; namely, semi-attached houses, row houses or townhouses used as residences.

2.7 <u>New Service</u> means:

WSSC STANDARD PROCEDURES

PAGE 2 OF 7

- (a) the first-time hook-up of a property to the Commission's water and/or sewer system; or
- (b) a new connection or increased water meter size for a property, previously or currently served by the Commission, if the new connection or increased meter size is needed because of a change in the use of the property or an increase in demand for service at the property.
- 2.8 <u>Non-Residential Unit</u> is a structure not otherwise defined as a Residential Unit, generally commercial or industrial in nature. Examples may include Shopping Malls, non-Residential Townhouses, Warehouses, Industrial Buildings, Restaurants, Schools, Dormitories, Hospitals, Hotels, Motels, Nursing Homes, Office Buildings, Churches, Theaters and similar commercial or industrial buildings.
- 2:9 <u>Plumbing Permit</u> is the approved instrument, resulting from an application filed by a Registered Master Plumber, which allows for hookup of fixtures or onsite piping to the Commission's water and/or sever systems.
- 2.10 <u>Property</u> means an improvement(s) or building(s) on a lot or parcel of land containing plumbing fixtures described in terms of Drainage Fixture Unit Values or Water Supply Fixture Unit Values.
- 2.11 Public Sponsored and Affordable Housing means:

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- (1) any dwelling unit built or financed under a government program, regulation, or binding agreement that limits for at least 10 years the price or rent charged for the unit in order to make the unit affordable to households earning less than 80% of the area median income, adjusted for family size;
- (2) any Moderately Priced Dwelling Unit built under Chapter 25A of the Montgomery County Code or Subtitles 13 and 27 of the Prince George's County Code;
- (3) any Productivity Housing Unit, as defined in Section 25B-17(m) of the Montgomery County Code;
- (4) any unit in an Opportunity Housing Project built under Sections 56-28 through 56-32 of the Montgomery County Code or Subtitle 13, Division 8, of the Prince George's County Code, which is reserved for occupancy only by persons with low or moderate incomes (as defined in applicable provisions of State and County Law);
- (5) any dwelling unit constructed pursuant to the Capturing Housing Opportunities in Communities Everywhere (CHOICE) Program in Prince George's County which is reserved for occupancy only by persons with low or moderate incomes (as defined in applicable provisions of State and County Law).

2.12 <u>Residential Unit</u> means any housing unit defined in Paragraphs 2.1, 2.4, and 2.6 above used as a residence.

WSSC STANDARD PROCEDURES

PAGE 3 OF 7

- 2.13 <u>Residential Applicant</u> means a builder on whose behalf a Registered Master Plumber applies for and receives from the Commission plumbing permits for construction of new residential units.
- 2.14 <u>SDC Sewer Charge</u> is the product of a fixture's Drainage Fixture Unit Value and its associated Base SDC Fee for non-residential properties or dwelling and multi-unit housing units with more than five toilets. For residential properties with five or fewer toilets, the SDC Sewer Charge is the Commission approved drainage portion of the Base SDC Fee.
- 2.15 <u>SDC Water Charge</u> is the product of a fixture's Water Supply Fixture Unit Value and its associated Base SDC Fee for non-residential properties or dwelling and multi-unit housing units with more than five toilets. For residential properties with five or fewer toilets, the SDC Water Charge is the Commission approved water supply portion of the Base SDC Fee.
- 2.16 <u>Sub-District Charge</u> means that charge established by the Commission pursuant to the provisions of §6-103, Article 29, <u>Annotated Code of Maryland</u>.
- 2.17 <u>Toilet</u> means a water closet, as set forth in the WSSD Plumbing and Gasfitting Regulations.
- 2.18 <u>Water Supply Fixture Unit Value</u> is a measure of the probable hydraulic demand on the water supply by a particular plumbing fixture in terms of volume rate of supply and duration of a single supply operation and the time period between successive operations.

GENERAL

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- 3.1 SDC is a fee established pursuant to provisions of Article 29, § 6-113 of the <u>Annotated Code of Maryland</u>, to help finance the capital cost of upgrading existing plants and facilities as well as the construction of new capital projects attributable to the addition of new service.
- 3.2 The Base SDC Fee level is established by Commission Resolution representing a formal adoption of the fee level mutually agreed upon by the Montgomery and Prince George's County Councils.
- 3.3 The SDC fee for a non-residential property or a dwelling unit or housing unit within multi-unit dwelling with more than five toilets is determined by the type and number of fixtures, existing and/or proposed, for which hookup to the WSSC's water and/or sewerage system(s) is proposed. The SDC levy is the sum of SDC Water Charges and SDC Sewer Charges, prevailing at the time of application for hook-up, which are associated with the individual fixtures proposed for hookup.

3.4 The SDC fee for a residential unit with five or fewer toilets is determined by the number of toilets, existing and/or proposed, for which hookup to the WSSC's water and/or sewerage system(s) is proposed. The SDC levy is the sum recorded water (Rec2(1268)

WSSC STANDARD PROCEDURES

PAGE 4 OF 7

of SDC Water Charges and SDC Sewer Charges, prevailing at the time of application for hook-up, which are associated with the number of toilets proposed for hookup.

- 3.5 Except as provided by Section 3.9, a property's calculated SDC fee is payable in full and shall accompany the application for plumbing permit for hookup of a property's fixtures to the WSSC system. Any "credit" pursuant to WSSC Standard Procedure CUS 94-03, entitled SDC DEVELOPER CREDITS AND REIMBURSEMENTS, may be substituted as payment, on a dollar for dollar basis, as therein described. Collected SDC fees shall be deposited in established revenue accounts and reconciled through the Service Applications & Records Section's remittance-processing system.
- 3.6 When a request is made to add a fixture(s) to a plumbing permit which has been issued under a previous SDC rate structure and which has not received final inspection approval, the additional SDC shall be calculated and collected based upon the fixture unit rate in effect at the time of request, except that the total SDC for a residential unit permit with five or less toilets shall not exceed the current Base SDC fee for such a unit.
- 3.7 When an application is made to add a toilet(s) to an existing dwelling or housing unit within an existing multi-unit dwelling, the resulting permit may be subject to a SDC fee only if the unit was previously assessed a SDC fee or an increase is required in the size of the unit's connection or meter. In either situation, a SDC fee will be actually assessed only if the number of toilets is being increased from one toilet based rate category to the next. For housing units with five or fewer toilets, the SDC fee assessed will be equal to the difference in the SDC base charge currently applicable to the number of existing toilets and that applicable to the total number of existing and proposed toilets. The SDC fee assessed for existing housing units with more than five toilets is the sum of the SDC Base fees at the current SDC rate structure for all added fixtures.
- 3.8 When an application is made to add fixtures to a Non-residential Unit, the resulting permit may be subject to a SDC fee only if the unit was previously assessed a SDC fee or an increase is required in the size of the unit's connection or meter. In either situation, the SDC fee assessed is the sum of the SDC Base fees at the current SDC rate structure for all added fixtures.
- 3.9 A residential applicant who elects to delay paying a portion of the system development charge shall pay one half the charge at the time of filing application for plumbing permit. The remaining one half of the system development charge for each residential unit shall be paid to the Commission within 12 months after the first payment or prior to the transfer of title to the property, whichever occurs first. A residential applicant must provide security for the remaining one half of the system development charge at the time of filing the plumbing permit application in one of the following forms:

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PAGE 5 OF 7

WSSC STANDARD PROCEDURES

(c).

- (a). An irrevocable letter of credit that is automatically renewed from a bank that is rated "C" or better by Thomson BankWatch.
- (b). A financial guaranty bond in a form substantially similar to the form attached here as Appendix "A." The bond shall be executed by the applicant and a corporate bonding company licensed to transact such business in the State of Maryland and named on the current list of "surety companies acceptable on Federal Bonds" as published in the Treasury Department Circular Number 570. The expense of this bond shall be paid by the applicant. If at any time the surety on any such bond is declared bankrupt or loses its right to do business in the State of Maryland or is removed from the list of surety companies accepted on Federal bonds, the applicant shall within ten days after notice from the Commission to do so, substitute an acceptable bond in such forms and sum and signed by such other surety or sureties as may be satisfactory to the Commission.

For the residential applicant who certifies that he or she applies for four or fewer permits for the construction of residential units within the same calendar year, the General Counsel is hereby authorized to accept other forms of security proposed by the applicant and that in the judgment of the General Counsel will protect the Commission's interests in the same manner as the letter of credit and financial guaranty bond described above.

3.10 Fixtures verified by WSSC inspection prior to removal may result in credits toward SDC in a replacement structure. Following written application by a Registered Master Plumber, Postcard Permit inspections to confirm fixtures prior to removal will be the basis for calculating any SDC credit. No credit

WSSC STANDARD PROCEDURES

PAGE 6 OF 7

will be afforded for rough-in piping or fixtures removed prior to inspection. SDC credit under this paragraph may only be obtained by submitting the <u>original</u> Master Plumber's copy of the approved Postcard Permit document at the time of application for hook-up of the replacement or remodeled structure. Credit obtained under this provision may only be used toward the remodeling of the existing structure or the redevelopment of a property from which the original fixtures were removed.

EXEMPTIONS

- 4.1 Additional fixtures installed in a structure or building are exempt from the levy of an SDC fee only if inspection of the initial hookup of the building or structure's plumbing to the WSSC's system(s) was approved under a permit issued as a result of an application filed before July 19, 1993, and the change in fixtures does not require an increase in the property's connection(s) or meter size.
- 4.2 The hook-up of a residential unit which is certified by Montgomery or Prince George's County as being a Public Sponsored or Affordable Housing Unit, as defined by Commission Resolution No. 98-1555, shall be exempted from any SDC fee.
- 4.3 The initial hook-up of a residential unit to the Commission's water and/or sewerage system will be exempted from the levy of any SDC fee if the unit existed and was served by a private well and/or septic system on or before July 16, 1993, and the applicable WSSC water or sewer main was in service or its construction was the subject of "Formal Notice To Proceed" (to the WSSC contractor) on or before the same July 16, 1993.

REFUNDS

- 5.1 In the event a permit to install plumbing fixtures expires or is canceled pursuant to provisions of Section 206.2 of the Plumbing and Gasfitting Regulations, all SDC fees paid in association with the application for plumbing permit to hook-up may be refunded, provided Code Enforcement Section's inspection records confirm that no work covered by the permit has been accomplished. Such refunds will be made to the original SDC payer at the time of application.
- 5.2 SDC payments for fixtures represented on an application, but not installed, may be refunded to the original payer provided a written request for refund is filed with the Service Applications & Records Section <u>prior</u> to a request for final inspection. Upon confirmation by the Code Enforcement Section that the fixtures or related rough-in work referenced in the written request have not been installed, the fixtures will be deleted from the permit database record and SDC refund action will be initiated.
- 5.3 The reimbursement of SDC payments to comply with credit requirements set forth in Article 29, §6-113.(e) of the <u>Annotated Code of Maryland</u> shall be standards (Rev5/1338)

SP NUMBER CUS 98-01

PAGE 7 OF 7.

accomplished as specified by WSSC Standard Procedure CUS 94-03, entitled SDC CREDITS AND REIMBURSEMENT.

5.4 A request for full or partial refund of previously remitted SDC which has been denied may be appealed under provisions of Article 29, §6-111 of the <u>Annotated Code of Maryland</u>.

AUTHORITY CLAUSE

The General Counsel certifies that the statutory authority for adoption of this Standard Procedure is Article 29, §§ 6-113 and 9-101 of the <u>Annotated Code of</u> <u>Maryland</u>.

Distribution List

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APPENDIX "A"

FINANCIAL GUARANTY BOND

Plumbing Permit Number _____ Bond Number

Date Bond Executed

KNOW ALL MEN BY THESE PRESENTS:

(here insert the address of the Applicant) as Principal, hereinafter called "Applicant", and

(here insert the legal name of the Surety)

(here insert the address of the Surety) as Surety, hereinafter called "Surety", are held and firmly bound unto the WASHINGTON SUBURBAN SANITARY COMMISSION, Laurel, Maryland, a public and governmental corporate agency of the State of Maryland, as Obligee, hereinafter called the "Commission", in

the amount of

_____dollars (\$_____), being 50 percent of the System Development Charge of the herein-mentioned application, for the payment whereof Applicant and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally.

WHEREAS, the Applicant has applied for a plumbing permit to install fixtures or hookup a residential property to the Commission's water and/or sewerage system(s) under Plumbing Permit No. and has promised to pay the full system development charge within 12

months of the date of the application or prior to the transfer of title to the property, whichever occurs first.

NOW, THEREFORE, the condition of this obligation is such that if the Applicant shall promptly and faithfully pay the system development charge in a timely manner, then this obligation shall be null and void; otherwise, it shall remain in full force and effect.

The Surety hereby waives notice of any alteration or extension of time made by the Commission.

Whenever Applicant shall be, and declared by Commission to be, in default in payment of the system development charge, the Commission having performed Commission's obligations thereunder, the Surety shall promptly pay the amount owed by the Applicant to the Commission.

Any suit under this bond must be instituted before the expiration of eighteen (18) months from the date payment is due. No right of action shall accrue on this bond to or for the use of any person or corporation other than the Commission or its successors and assigns.

The bond is executed in two (2) counterparts, each of which shall, without proof or accounting for the other counterpart, be deemed an original thereof.

| - Signed and seale | ed this | day of |
|--|---|---|
| ································· | | |
| ATTEST: | | Applicant Name |
| | Ву: | (Title) |
| | | (Surety Name) |
| | By: | (Title) |
| to be executed, or can officials, this perfor shall be deemed an or: | used to be rmance bon iginal on le if appl | arties hereto have executed, or caused executed by their duly authorized d in () copies each of which the date first above written. (The icant is corporation or incorporated |
| Part | | Date: |
| (Title) | | |
| | | |
| Sec | retary of | Corporation |
| | | ion (Corporate Seal) |
| | | , certify that I am med as Applicant herein, that who signed this |
| Performance Bond on be | half of th | ne Applicant was then of said |
| Bond was duly signed a | nd sealed | nature thereto is genuine; that the in behalf of said Corporation by and is within the scope of its |
| | | |

Secretary of Corporation

ł

(The following is applicable if Applicant is individual, partnership or unincorporated joint venture.)

Signed and Sealed in the full names of all partners and all members of Joint Ventures.

| (Print) | Name | (Signature) | |
|---------|--------|-------------|--------|
| | Addres | 35 | |
| (Print) | Name | (Signature) | |
| | Addres | 35 | (Seal) |
| (Print) | Name | (Signature) | (Seal) |
| | Addres | SS | |
| (Print) | Name | (Signature) | |

Address

STANDARD PROCEDURES OF THE APPENDIX B WASHINGTON SUBURBAN SANITARY COMMISSION PAGE 1 OF 10

| ORIGINATOR & POSITION | SP NUMBER | APPROVE BY/DATE | EFFECTIVE DATE | PAGE 1 OF 8 |
|--|--------------------------------------|---|----------------|----------------|
| Richard Shagogue, Team Chief Engineering & Construction Team | ENG 04-01 Supercedes CUS 94-03 | Jucretia Morris actime Corp flortbury Jommissioners March 10, 2004 | March 24, 2004 | |

SUBJECT: SDC APPLICANT CREDITS AND REIMBURSEMENTS

PURPOSE

- 1.0 Define procedures for the issuance of a System Development Charge (SDC) Credit earned through private design and construction to serve the Applicant's property. These procedures pertain only to either an approved Capital Improvement Program (CIP) Project or a project that provides only local service, is 2,000 feet or less in length, is either a sewer main 15 inches or greater in diameter, or water main 16 inches or greater in diameter and is built to avoid unnecessary and uneconomical duplication when a major project is constructed.
- 1.1 Describe how the SDC Credit due an Applicant will be determined.
- 1.2 Describe when SDC credit and reimbursement will occur.

DEFINITIONS

- 2.0 <u>Systems Development Charge (SDC)</u> A fee paid to the WSSC at the time of application for a plumbing permit intended to cover the cost of building CIP Projects needed to accommodate growth.
- 2.1 <u>Applicant</u> Any firm, corporation, partnership, joint venture, municipality, agency, person or persons whom WSSC has authorized to design and construct a Qualified Project eligible for SDC credit or whom WSSC has required to provide eligible private funding of the Commission's costs to design and construct such a Project.
- 2.2 <u>System Extension Permit (SEP)</u> A permit/agreement made between the WSSC and an Applicant pursuant to the "Development Services Process Manual" adopted by the Commission, effective July 1, 2000, and subsequent adopted revisions. <u>A qualified project built under a System Extension Permit issued without a signed accompanying SDC Credit Agreement is not eligible for SDC applicant credits or reimbursement.</u>
- 2.3 <u>Memorandum of Understanding (MOU)</u> An agreement made pursuant to provisions of Standard Procedure # PD-93-06 entitled "Procedure for Developing a Memorandum of

Understanding for the Construction of WSSC Systems by Others" between the WSSC and an Applicant which covers the Applicant's design and construction of a CIP Project and which identifies the estimated total Applicant costs eligible for SDC credit and/or reimbursement. <u>A qualified project built without a signed MOU is not eligible for SDC applicant credits or reimbursement.</u>

- 2.4 Qualified Project Any CIP facility, CIP line, sewer main 15 inches or greater, or water main 16 inches or greater in diameter necessary to serve the Applicant's property, which is designed and constructed by and at the sole expense of an Applicant pursuant to an MOU or SEP or other agreement. Also, any CIP project which is constructed by WSSC that the Applicant is required to provide eligible private funding of WSSC design and construction costs.
- 2.5 <u>Qualified Properties</u> The specific properties located within the geographic area which WSSC identifies as served by the Qualified Project, as defined in Section 3.2.
- 2.6 <u>Eligible Private Funding</u> Payment required by and made to WSSC by an Applicant to cover WSSC costs to design and construct a CIP Project needed to accommodate growth.
- 2.7 <u>SDC Credit</u> A dollar value which is credited to an Applicant against SDC payable in connection with Qualified Properties and which equals the total eligible costs as defined in Section 3.6 incurred by the Applicant in the Applicant's design and construction of a Qualified Project or the amount of eligible private funding made by the Applicant to cover WSSC costs to design and construct a Qualified Project. An Applicant who designs a Qualified Project must also construct that Project in order to be eligible to receive SDC Credits.
- 2.8 <u>SDC Credit Agreement</u> An agreement that summarizes the eligible costs considered for SDC Credit (as described in Section3.6). The SDC Credit Agreement is appended to an SEP. The credit agreement is included in the MOU as Attachment A.
- 2.9 <u>SDC Ledger</u> The record of SDC credit authorized for an Applicant and the amount(s) of SDC credit issued or reimbursed to the Applicant for fixtures covered by plumbing permits obtained in the course of developing Qualified Properties associated with a Qualified Project.
- 2.10 <u>Credit Voucher</u> The document (Attachment "B"), executed by the Applicant, which serves as the instrument to obtain SDC credit associated with an application for permit to install plumbing fixtures. Each Credit Voucher may apply only to a single application for plumbing permit and shall:
 - identify the Qualified Project from which credit is derived; and
 - specify the Qualified Property for which the credit is requested; and
 - be signed by the Applicant or its authorized agent, be duly notarized; and
 - show the amount to be credited in lieu of SDC payment
- 2.11 <u>Qualified Project Scope</u> The specific scope of the qualified project. For pipelines built under an SEP, the specific scope will be included with the SDC Credit Agreement, and

will include pipeline lengths and diameters, valves, vaults and any other appurtenant structures. For facility projects, the specific scope of work will be included with the MOU.

PROCEDURES

- 3.0 An Applicant shall declare a desire to design and construct a Qualified Project eligible for SDC credit either as an element of its request for a Hydraulic Planning Analysis filed with the Development Services Group or in a written response to the Letter of Findings prepared by the Development Services Group. For projects that were previously authorized, but have not yet been issued an SEP or MOU, the Applicant may request an authorization amendment to allow the Applicant to design and construct a Qualified Project eligible for SDC credit.
- 3.1 The Applicant agrees to pay WSSC all review fees normally due WSSC. Letters of credit are not acceptable in lieu of fees.
- 3.2 When an Applicant has requested that it be permitted to design and construct a CIP Project, the Development Services Group shall prepare a map during its hydraulic planning analysis that identifies the Qualified Properties to be served by the CIP Project which the Applicant has requested to design and construct. SDC Credit will only be issued to properties within the geographic boundaries identified in the map as Qualified Properties. A copy of the prepared map will be sent to the Applicant.
- 3.3 If WSSC either authorizes the Applicant to design and construct a Qualified Project or requires eligible private funding from the Applicant of WSSC's design and construction costs, then the properties identified as served by the Project will receive credit and/or be subject to SDC Payments which may be reimbursed to the Applicant up to the total eligible amount. The Permit Services Unit will establish an Applicant's SDC Ledger following either 1) execution of a MOU or SEP covering Applicant design and construction of the Qualified Project or 2) WSSC receipt of eligible private funding of the Qualified Project from the Applicant. Prior to establishing the Applicant's SDC Ledger, the Permit Services Unit requires a map identifying all Qualified Properties to be served by the Qualified Project from the Development Services Group. Please note that for pipeline jobs, the Applicant will not receive SDC credit or reimbursement unless the SDC credit agreement is signed before the SEP is issued.
- 3.4 The SDC Ledger will reflect the total amount of SDC credit/reimbursement that the Applicant is eligible to receive. If the Applicant is designing and constructing the Qualified Project, the Ledger will initially reflect the Applicant's SDC credit based upon the estimated total eligible costs agreed upon in the MOU or SEP. The Applicant's initial Ledger credit amount will be adjusted to reflect the actual total eligible costs for the Qualified Project, as determined by the WSSC's Internal Audit Manager (as discussed in Sections 3.5, 3.6, 3.7, 3.8 and 3.12), after the Qualified Project has been accepted and placed in service by WSSC. If WSSC is designing and constructing a Qualified Project, the Ledger will reflect the total amount of eligible private funding received from the Applicant.
- 3.5 SDC credits may not exceed 50% of the estimated total eligible project cost (not to

SP NUMBER ENG 04-01 PAGE 4 OF 8 APPENDIX B PAGE 4 OF 10

include contingency for increase in scope items (see Section 3.8)) until such time as final audit is completed and the actual total eligible project cost is determined. Once the actual total eligible project cost is determined, SDC credits are available up to the eligible project cost and quarterly refunds (based upon SDC collected for qualified properties) will commence. Prior to the final audit, the Credit Voucher is the only method of reimbursement to the Applicant.

Following WSSC receipt of eligible private funding, SDC credits against the ledger amount may be granted. However in the SDC credits toward the private funding may not exceed 50% of the total estimated project cost.

3.6 When an Applicant is designing and constructing a Qualified Project, SDC Credit is the total eligible Project cost incurred and paid by the Applicant. The SDC Credit is subject to the general guidelines that (1) eligible costs will be the types of costs that WSSC would have incurred had WSSC designed and constructed the Qualified Project, and (2) the SDC Credit will not exceed the maximum amount mutually agreed upon in the SDC Credit Agreement. Eligible costs must be directly allocable to the Qualified Project. Examples include, but are not limited to

Engineering Costs: design, reprographics, survey (topo), soil borings, As-built drawing preparation, and bonding fees.

Permits Costs: Costs for permits that WSSC would have had to acquire had WSSC built the project.

WSSC Fees for Pipelines: Fees for extra WSSC reviews or re-testing will be considered only if non-eligible portions of the job do not require extra reviews or re-testing. Unless mentioned otherwise, fees will be allocated to the Qualified Project based on estimated costs and overall water and sewer project cost for the project number.

WSSC Fees for Facilities: All WSSC direct costs and overhead associated with the qualified project as stated in the MOU.

Construction Costs: Contractors bid price, survey (stake out), Geotech (compaction testing), off-site restoration, and construction management.

Interest Costs: Interest costs for funds used during design and construction, at an average interest rate not to exceed the rate paid by WSSC on short-term construction notes outstanding during the period beginning with the date of WSSC signature on the SEP or MOU agreement and ending when the Qualified Project is substantially complete.

Off-Property Rights of Way: Acquisition costs are eligible up to amount appraised by WSSC for purchase of off-Applicant's property right-of-way and construction strips, plus up to 25 percent of the appraised amount for direct costs associated with purchase of off-site rights-of-way and construction strips.

3.7 Examples of costs that are not eligible include, but are not limited to

Area wide planning not directly related to the Qualified Project;

Attorneys fees

The WSSC Hydraulic Review Fee

Costs for negotiation of SDC Credit Agreement or MOU;

Bonus payments or acceleration costs paid to the contractor for completion of construction;

Third party inspection costs for facility projects;

Applicant's overhead costs not directly attributable to the Qualified Project;

Costs outside the scope of the Qualified Project;

Permit costs associated with a development rather than the Qualified Project;

Site acquisition costs beyond what WSSC would have paid;

Facilities capital cost of money;

Fines and penalties;

Maintenance Costs;

Maintenance Bond Costs that are beyond both two years after substantial completion and beyond one year after release of service or final acceptance.

Grading of rights of way;

Sediment control for grading;

Clearing and grubbing for public rights-of-way in which the Qualified Project will be installed;

Federal and state income taxes;

Administrative or Management Fees not directly associated with the Qualified Project; and

Personal injury compensation or damages.

- 3.8 The maximum SDC reimbursement shall not exceed 110 percent of the contractor bid price plus other eligible costs.
- 3.9 The SDC Credit Agreement will not provide payment to the Applicant for costs the Applicant did not incur or for costs reimbursed to the Applicant from other sources. The SDC Credit Agreement will not provide any premiums for expedited work.
- 3.10 Prior to SDC Credit Agreement or MOU approval, the WSSC project manager for the project is responsible to have components of the SDC Credit Agreement or MOU

SP NUMBER ENG 04-01

PAGE 6 OF 8

APPENDIX B PAGE 6 OF 10

reviewed by other offices. The Contract Technical Services Unit should review the Applicant's construction costs using a copy of the signed plans. Internal Audit is to review any item that the WSSC project manager proposes which is contrary to items 3.6 or 3.7. Other appropriate WSSC offices should be consulted such as the Land Acquisition Unit for additional land acquisition costs and the Planning Group for planning costs.

- 3.11 For Qualified Projects, the SEP or MOU agreements should indicate that the Maintenance Bond should remain in effect at least two years beyond the date of substantial completion for SEP projects or at least one year beyond the date of final acceptance for MOU projects. The Applicant will submit a written request for audit to WSSC's Internal Audit Manager, after the Qualified Project built by the Applicant has been released for service (pipelines) or finally accepted (facilities). Along with the request, the Applicant must submit an itemized listing of eligible Qualified Project costs, incurred and paid, supporting the total amount of SDC Credit claimed. <u>It should be</u> <u>emphasized that the Applicant should retain all the contracts, invoices and</u> <u>payments for WSSC Internal Audit to inspect and review to determine the SDC credits.</u>
- 3.12 In compliance with Article 29 § 6-113(e)(4), of the Annotated Code of Maryland, WSSC's Internal Audit Manager shall review and approve the costs incurred by the Applicant. The Internal Audit Manager will strive to initiate the audit within 90 days of the Applicant's request, if the request includes the required itemized cost listing. The Internal Audit Report will be the formal document that communicates the final results of the audit to WSSC and the Applicant. When an audit is complete, prior to the final Internal Audit Report, the Internal Audit Manager will issue to the Applicant an unsigned DISCUSSION DRAFT to allow the Applicant an opportunity to discuss with Internal Audit any concerns the Applicant has with the proposed SDC Credit. Subsequently, the Internal Audit Manager will issue to the Applicant its final Report on the SDC Credit to be provided the Applicant.
- SDC credits against an Applicant's SDC Credit balance will be issued by WSSC upon 3.13 receipt of a complete and fully executed Credit Voucher submitted at the time of plumbing permit application. The application must be made in connection with a Qualified Property served by the Qualified Project (being) built by the Applicant. Also, the amount specified in the Credit Voucher shall not exceed the calculated SDC for plumbing fixtures covered by the permit application. Credit Vouchers reflecting and specifying an amount in excess of calculated SDC for the requested permit will not be accepted. The plumbing permit will be issued after verification that a sufficient credit balance remains to cover the Credit Voucher Amount. Insofar as possible, Credit Vouchers will be considered on a "first come-first served" basis. For a plumbing permit application accompanied by a Credit Voucher for which an Applicant's credit balance has been exhausted, the credit voucher and the associated application will be returned to the applicant. WSSC is not responsible for managing or assisting the Applicant in managing the issuance of Credit Vouchers. Managing the issuance of Credit Vouchers is not an eligible cost for reimbursement.

3.14 In the event an issued Plumbing Permit expires or is cancelled by the owner or

SP NUMBER ENG 04-01

PAGE 7 OF 8

APPENDIX B PAGE 7 OF 10

plumber, no SDC reimbursement to the Applicant will be approved for that permit. In such cases, any Credit Voucher will be voided and the credit amount added to the Applicant's outstanding Ledger balance.

- 3.15 In conformance with Section 3.18, SDC payments received in association with applications for plumbing permits for Qualified Properties will be identified as eligible for reimbursement (after the Internal Audit Report has been completed see Section 3.12) to the Applicant who has constructed the Qualified Projects serving those Qualified Properties.
- 3.16 For those situations where more than one Qualified Project serves a Qualified Property, SDC reimbursement payments shall be made in proportional shares to the Applicants who have built or funded the Qualified Projects. A proportional share is calculated based upon a Qualified Project's actual eligible costs or funding expressed as a percentage of the sum of all actual eligible costs and/or funding of Qualified Projects serving the Qualified Property.
- 3.17 At the conclusion of each calendar quarter, the Permit Services Unit will determine the total SDC receipts eligible for reimbursement made for each previously identified Qualified Property. Only those SDC receipts filed in association with plumbing permits under which all covered work has received an approved final inspection are eligible for reimbursement.
- 3.18 Based upon the quarterly reconciliation, the Permit Services Unit will prepare and forward to the Accounting Group a Payment Request to be made to the appropriate Applicant in an amount equal to the sum of qualifying SDC receipts not yet reimbursed, and a memorandum recommending reimbursement of SDC receipts and identifying the maximum amount recoverable. The memorandum shall be accompanied by a statement detailing eligible plumbing permits.
- 3.19 Following review of the recommended reimbursement, the Accounting Group will forward the Payment Request and supporting documentation to the Disbursements Group which will issue payment to the Applicant.
- 3.20 When an Applicant has designed and constructed a Qualified Project, the sum of SDC Credits and Reimbursements pursuant to this procedure will be made only to the maximum determined by the Internal Audit Report and only to the Applicant identified in the MOU or SEP.
- 3.21 The Applicant may issue credit vouchers to multiple builders to facilitate construction of residential or non-residential structures within the Qualified Property and reimbursement of Qualified Project costs. If the Applicant wishes to transfer its right and title to any remaining SDC credit from a Qualified Project, the Applicant shall notify the Permit Services Unit of the requested transfer. Such notification shall be in writing and shall identify the single entity to receive the entire remaining balance of SDC credit from a Qualified Project. The Permit Services Unit will acknowledge the credit transfer and forward the written request for inclusion in the Qualified Project's MOU or SEP as an amendment. Thereafter, all Qualified Property SDC credits or reimbursements will be issued to the last designated entity in the MOU or SEP as amended.
- 3.22 Notwithstanding any other provision of this Procedure, SDC Credit or reimbursements

SP NUMBER ENG 04-01 PAGE 8 OF 8 APPENDIX B

PAGE 8 OF 10

for costs identified in Section 3.3 of this Procedure are limited to SDC transactions for Qualified Properties served by the Qualified Project within a twenty-year period, or until the sum of credits and reimbursements equals the total approved SDC Credit. The twenty-year period will commence for SEP, MOU, or eligible funding projects on the day of release for service. At the conclusion of the twenty-year period, the Permit Services Unit will close the SDC Reimbursement Ledger and will provide written notification of exhaustion or termination of the SDC Credit to the last designated recipient.

AUTHORITY

The General Counsel certifies that this Standard Procedure was adopted pursuant to the authority of Sections 6-113 and 9-101 of Article 29 of the Annotated Code of Maryland.

Distribution List:

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ATTACHMENT A

APPENDIX B PAGE 9 OF 10

SDC CREDITS ESTIMATE

ESTIMATED AMOUNT

| Design | |
|--------------------|--|
| Permits | |
| Administration | |
| Interest | |
| WSSC's Fees | |
| Construction Costs | |

TOTAL ESTIMATED ELIGIBLE COSTS

ATTACHMENT B

WASHINGTON SUBURBAN SANITARY COMMISSION

| PAGE | 10 | OF |
|------|----|----|
| | | |

APPENDIX B

10

I, ________hereby affirm under penalty of perjury that I am the Developer or its authorized agent, entitled to an SDC credit pursuant to an approved System Extension Permit or Memorandum of Understanding for ______, a Qualified

Project. Pursuant to the current

(WSSC Contract No. & C.I.P No.)

WSSC Standard Operating Procedure, I hereby request that \$______ be charged against the remaining eligible SDC credit balance for the specified Qualified Project. The above credit amount shall be applied against SDC due in connection with an application for plumbing permit to install fixtures in an improvement on property described as:

which is a "Qualified Property" served by the above named

"Qualified Project."

I agree to indemnify and hold harmless the Washington Suburban Sanitary Commission to whom this request is presented and its agents and employees, from and against all claims, damages, losses and expenses, including reasonable attorneys' fees, arising out of or by reason of complying with this request.

(Developer's Signature)

Subscribed and sworn to before me this _____ day of _____, 20___.

(Notary Public)

(Name Printed)

My Commission Expires

STANDARD PROCEDURES

OF

THE WASHINGTON SUBURBAN SANITARY COMMISSION

| ORIGINATOR | DEPT. & NUMBER | APPROVED BY/DATE COST | EFFECTIVE DATE | PAGE 1 |
|-------------------------------------|----------------|------------------------------------|----------------|--------|
| Water Resources Planning Section | PD 93-01 | Cortez A. White General Manager | July 1, 1993 | OF 3 |

SUBJECT

PROCEDURE FOR DETERMINING PERCENT GROWTH FOR CIP PROJECTS

PURPOSE AND APPLICABILITY I.

The purpose of this procedure is to establish a method for determining what proportion of certain WSSC CIP projects is for This procedure applies after June 30, 1993: 1) to projects which are added to the CIP; and 2) to any revisions of projects already programmed which change the amount of system capacity added by the projects.

II. PROCEDURE AND METHODOLOGY

The Water Resources Planning Section will determine the percent growth for all applicable CIP Projects using the following methodology.

The method involves the following three steps:

Test for 100% Growth step 1.

> If flows/demands remained at June 1993 levels, would a project still be required?

> > No ==> Growth = 100% Yes ==> Continue to Step 2

Test for 0% Growth Step 2.

> Does the project improve or replace components of an existing facility without increasing the capacity of any of the components?

> > Yes ==> Growth = 0% No => Continue to Step 3

Determine Percent Growth Step 3.

- Identify system capacity added by the project. 1.
- Identify and subtract June 30, 1993 capacity 2. deficit, if any.
 - Divide result by total project design capacity. 3.

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APPENDIX C PAGE 2 OF 3 DEPT. & NUMBER: PD 93-01

PAGE 2 OF 3

Notes:

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- 1. For most water and wastewater facilities, there is a straight-forward relationship between demand, capacity requirements, and facility size. For water transmission mains, however, the relationship is more complicated. There are many factors other than size which must be considered to determine capacity. These factors include length, the size and number of interconnections and the allowable energy differential between the points connected by the transmission system. Capacity analysis of a transmission network normally requires computer modeling. Previous water system analyses will be used to the extent they are applicable; however, where no previous analysis exists, computer modeling will be required.
- 2. If an existing facility with available system capacity is being replaced by a new project which increases total system capacity, the available capacity in the existing facility is lost or wasted. In such cases, existing available capacity will be treated as a negative deficit in Step 3, part 2.

Examples:

10/11-1-002

- 1. An existing sewer has a safe capacity of 20 mgd. The June 30, 1993 peak flow is 17 mgd. A proposed parallel sewer will add 10 mgd of capacity for growth. Since the existing sewer can handle the June 30, 1993 flows the project is 100% for growth. (Step 1)
- 2. An existing sewer has a safe capacity of 20 mgd; its maximum capacity before overflow is 27 mgd. The June 30, 1993 peak flow is 21 mgd. A proposed parallel sewer will add 10 mgd of capacity for growth. Since the existing sewer can handle the June 30, 1993 flows, the project is 100% for growth. (Step 1)
- 3. An existing pumping station has 1 mgd of capacity. The June 30, 1993 flow is 0.8 mgd. A proposed replacement pumping station will have a total capacity of 1.5 mgd. The existing pumping station is old, and a rehab project would be needed if the new pumping station were not built. Therefore, the station is not 100% for growth. (Step 1) It adds capacity, so it is not 0% growth. (Step 2) The percent for growth is calculated as follows: 0.5 mgd [the capacity added by the new pumping station] plus 0.2 mgd [the amount of lost available capacity] divided by 1.5 mgd [the total capacity of the new pumping station] = 47%. (Step 3)

APPENDIX C PAGE 3 OF 3

DEPT. & NUMBER: PD 93-01

PAGE 3 OF 3

4. An existing pumping station in good condition has 1 mgd of capacity. The June 30, 1993 flow is 0.8 mgd. A proposed replacement pumping station, located downstream to increase the service area, will have a total capacity of 1.5 mgd. The proposed pumping station is 100% for growth. (Step 1)

WSSC STANDARD PROCEDURES

5. A pressure zone has a 1 mg storage deficit based on June 30, 1993 demands. When we finally get agreement to build a 3 mg tank in the zone, the deficit has risen to 2 mg. The tank is 66.7% for growth. [3 mg added - 1 mg deficit]/3 mg total capacity = 67.7%. (Step 3)

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141/11-1-002

| | TOTAL | FY | FY | TOTAL | FY | FY | FY | FY | FY | FY | BEYOND |
|--|-----------|-----------|----------|-----------|----------|-----------|----------|----------|------------|------------|------------|
| PROGRAM NAME | COST | 2009 | 2010 | 6 YEARS | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 6 YEARS |
| MONTGOMERY COUNTY WATER PROJECTS | | | | | | | | | | | |
| Total Project Costs * | \$15,207 | \$1,116 | \$2,912 | \$11,179 | \$6,294 | \$3,347 | \$1,538 | \$0 | \$0 | \$0 | \$0 |
| SDC Eligible Costs | \$15,207 | \$1,116 | \$2,912 | \$11,179 | \$6,294 | \$3,347 | \$1,538 | \$0 | \$0 | \$0 | \$0 |
| BI-COUNTY WATER PROJECTS | | | | | | | | | | | |
| Total Project Costs * | \$300,372 | \$121,413 | \$60,049 | \$118,910 | \$44,836 | \$41,121 | \$28,822 | \$4,131 | \$0 | \$0 | \$0 |
| SDC Eligible Costs | \$209,005 | \$47,088 | \$45,453 | \$116,464 | \$43,090 | \$40,721 | \$28,522 | \$4,131 | \$0 | \$0 | \$0 |
| PRINCE GEORGE'S COUNTY WATER PROJECTS | | | | | | | | | | | |
| Total Project Costs * | \$66,002 | \$4,579 | \$4,853 | \$52,820 | \$14,712 | \$19,557 | \$13,545 | \$3,895 | \$803 | \$308 | \$3,750 |
| SDC Eligible Costs | \$44,745 | \$3,504 | \$3,516 | \$35,850 | \$9,125 | \$12,470 | \$9,864 | \$3,280 | \$803 | \$308 | \$1,875 |
| TOTAL WATER PROJECT COSTS | \$381,581 | \$127,108 | \$67,814 | \$182,909 | \$65,842 | \$64,025 | \$43,905 | \$8,026 | \$803 | \$308 | \$3,750 |
| TOTAL WATER SDC ELIGIBLE COSTS | \$268,957 | \$51,708 | \$51,881 | \$163,493 | \$58,509 | \$56,538 | \$39,924 | \$7,411 | \$803 | \$308 | \$1,875 |
| MONTGOMERY COUNTY SEWERAGE PROJECTS | | | | | | | | | | | |
| Total Project Costs * | \$50,406 | \$3,457 | \$8,410 | \$38,539 | \$16,387 | \$15,213 | \$6,898 | \$41 | \$0 | \$0 | \$0 |
| SDC Eligible Costs | \$50,085 | \$3,457 | \$8,089 | \$38,539 | \$16,387 | \$15,213 | \$6,898 | \$41 | \$0 \$0 | \$0 \$0 | \$0 \$0 |
| BI-COUNTY SEWERAGE PROJECTS | | | | | | | | | | | |
| Total Project Costs * | \$41,803 | \$1,405 | \$2,587 | \$37,811 | \$7,226 | \$12,572 | \$13,360 | \$4,653 | \$0 | \$0 | \$0 |
| SDC Eligible Costs | \$8,527 | \$367 | \$1,086 | \$7,074 | \$1,820 | \$2,355 | \$2,434 | \$465 | \$0 | \$0 | \$0 |
| PRINCE GEORGE'S COUNTY SEWERAGE PROJECTS | | | | | | | | | | | |
| Total Project Costs * | \$102,774 | \$12,852 | \$10,459 | \$78,547 | \$5,951 | \$15,256 | \$31,365 | \$22,549 | \$1,906 | \$1,520 | \$916 |
| SDC Eligible Costs | \$95,911 | \$12,153 | \$10,019 | \$72,876 | \$5,731 | \$14,200 | \$28,902 | \$20,767 | \$1,809 | \$1,467 | \$863 |
| TOTAL SEWERAGE PROJECT COSTS | \$194,983 | \$17,714 | \$21,456 | \$154,897 | \$29,564 | \$43,041 | \$51,623 | \$27,243 | \$1,906 | \$1,520 | \$916 |
| TOTAL SEWERAGE SDC ELIGIBLE COSTS | \$154,523 | \$15,977 | \$19,194 | \$118,489 | \$23,938 | \$31,768 | \$38,234 | \$21,273 | \$1,809 | \$1,467 | \$863 |
| TOTAL PROJECT COSTS | \$576,564 | \$144,822 | \$89,270 | \$337,806 | \$95,406 | \$107,066 | \$95,528 | \$35,269 | \$2,709 | \$1,828 | \$4,666 |
| TOTAL SDC ELIGIBLE COSTS | \$423,480 | \$67,685 | \$71,075 | \$281,982 | \$82,447 | \$88,306 | \$78,158 | \$28,684 | \$2,612 | \$1,775 | \$2,738 |

* Total Project Costs – This is the total cost for all projects needed to support growth. SDC Eligible Costs – That portion of Total Project Costs specifically for growth.

(i.e. if a project supports 50% Growth and 50% System Improvements, SDC Eligible Costs refer only to the 50% Growth portion).

| PROJECT | PROJECT NAME | TOTAL | FY | FY | TOTAL | FY | FY | FY | FY | FY | FY | BEYOND |
|-----------------------------|---|---------------------|---------------------|-------------------|------------------|----------------|-------------|-------------|-------------|-------------|-------------|----------------|
| <u>NUMBER</u> | | <u>COST</u> | <u>2009</u> | <u>2010</u> | <u>6 YEARS</u> | <u>2011</u> | <u>2012</u> | <u>2013</u> | <u>2014</u> | <u>2015</u> | <u>2016</u> | <u>6 Years</u> |
| | WATER PROJECTS | | | | | | | | | | | |
| <u>BI-COUNTY</u> W-73.16 | <u>Y PROJECTS</u> POTOMAC WFP IMPROVEMENTS TOTAL GROWTH COSTS | \$131,401 40,734 | \$107,717 33,392 | \$21,154 6,558 | \$2,530 \$784 | \$2,530 784 | \$0 0 | \$0 0 | \$0 0 | \$0 0 | \$0 0 | \$0 0 |
| W-127.01 | BI-COUNTY WATER TUNNEL | 168,971 | 13,696 | 38,895 | 116,380 | 42,306 | 41,121 | 28,822 | 4,131 | 0 | 0 | 0 |
| | TOTAL GROWTH COSTS | 168,271 | 13,696 | 38,895 | 115,680 | 42,306 | 40,721 | 28,522 | 4,131 | 0 | 0 | 0 |
| | BI-COUNTY WATER PROJECTS | \$300,372 | \$121,413 | \$60,049 | 118,910 | \$44,836 | \$41,121 | \$28,822 | \$4,131 | \$0 | \$0 | \$0 |
| | BI-COUNTY SDC ELIGIBLE COSTS | \$209,005 | \$47,088 | \$45,453 | 116,464 | \$43,090 | \$40,721 | \$28,522 | \$4,131 | \$0 | \$0 | \$0 |
| MONTGOM | ERY COUNTY PROJECTS | | | | | | | | | | | |
| W-46.14 | CLARKSBURG AREA STAGE 3 WATER MAIN, PART 1, 2, & 3 | 3,586 | 141 | 656 | 2,789 | 2,238 | 551 | 0 | 0 | 0 | 0 | 0 |
| | TOTAL GROWTH COSTS | 3,586 | 141 | 656 | 2,789 | 2,238 | 551 | 0 | 0 | 0 | 0 | 0 |
| W-46.15 | CLARKSBURG ELEVATED WATER STORAGE FACILITY | 4,092 | 132 | 25 | 3,935 | 328 | 2,069 | 1,538 | 0 | 0 | 0 | 0 |
| | TOTAL GROWTH COSTS | 4,092 | 132 | 25 | 3,935 | 328 | 2,069 | 1,538 | 0 | 0 | 0 | 0 |
| W-46.18 | NEWCUT ROAD WATER MAIN, PART 2 | 825 | 75 | 115 | 635 | 236 | 399 | 0 | 0 | 0 | 0 | 0 |
| | TOTAL GROWTH COSTS | 825 | 75 | 115 | 635 | 236 | 399 | 0 | 0 | 0 | 0 | 0 |
| W-46.24 | CLARKSBURG AREA STAGE 3 WATER MAIN, PART 4 | 1,954 | 68 | 276 | 1,610 | 1,455 | 155 | 0 | 0 | 0 | 0 | 0 |
| | TOTAL GROWTH COSTS | 1,954 | 68 | 276 | 1,610 | 1,455 | 155 | 0 | 0 | 0 | 0 | 0 |
| W-153.00 | LAYTONSVILLE ELEVATED TANK AND PUMPING STATION | 4,519 | 700 | 1,840 | 1,979 | 1,979 | 0 | 0 | 0 | 0 | 0 | 0 |
| | TOTAL GROWTH COSTS | 4,519 | 700 | 1,840 | 1,979 | 1,979 | 0 | 0 | 0 | 0 | 0 | 0 |
| W-200.00 | LAND & RIGHTS-OF-WAY ACQUISITION - MONTGOMERY COUNTY | 231 | 0 | 0 | 231 | 58 | 173 | 0 | 0 | 0 | 0 | 0 |
| | TOTAL GROWTH COSTS | 231 | 0 | 0 | 231 | 58 | 173 | 0 | 0 | 0 | 0 | 0 |
| | MONTGOMERY COUNTY WATER PROJECTS | \$15,207 | \$1,116 | \$2,912 | \$11,179 | \$6,294 | \$3,347 | \$1,538 | \$0 | \$0 | \$0 | \$0 |
| | MONTGOMERY COUNTY SDC ELIGIBLE COSTS | \$15,207 | \$1,116 | \$2,912 | \$11,179 | \$6,294 | \$3,347 | \$1,538 | \$0 | \$0 | \$0 | \$0 |

| PROJECT | PROJECT NAME | TOTAL | FY | FY | TOTAL | FY | FY | FY | FY | FY | FY | BEYOND |
|---------------------------------|---|-------------|-------------|-------------|----------------|-------------|-------------|-------------|-------------|-------------|-------------|----------------|
| <u>NUMBER</u> | | <u>COST</u> | <u>2009</u> | <u>2010</u> | <u>6 YEARS</u> | <u>2011</u> | <u>2012</u> | <u>2013</u> | <u>2014</u> | <u>2015</u> | <u>2016</u> | <u>6 Years</u> |
| PRINCE GEORGE'S COUNTY PROJECTS | | | | | | | | | | | | |
| W-34.02 | OLD BRANCH AVENUE WATER MAIN | \$10,993 | \$70 | \$385 | 10,538 | \$1,087 | \$4,983 | \$3,973 | \$495 | \$0 | \$0 | \$0 |
| | TOTAL GROWTH COSTS | 5,496 | 35 | 192 | 5,269 | 544 | 2,491 | 1,987 | 247 | 0 | 0 | 0 |
| W-111.05 | HILLMEADE ROAD WATER MAIN | 3,763 | 497 | 621 | 2,645 | 1,481 | 1,164 | 0 | 0 | 0 | 0 | 0 |
| | TOTAL GROWTH COSTS | 3,763 | 497 | 621 | 2,645 | 1,481 | 1,164 | 0 | 0 | 0 | 0 | 0 |
| W-119.01 | JOHN HANSON HIGHWAY WATER MAIN, PART 1 | 6,368 | 445 | 288 | 5,635 | 242 | 1,881 | 2,347 | 1,165 | 0 | 0 | 0 |
| | TOTAL GROWTH COSTS | 6,368 | 445 | 288 | 5,635 | 242 | 1,881 | 2,347 | 1,165 | 0 | 0 | 0 |
| W-123.20 | OAK GROVE/LEELAND ROADS WATER MAIN, PART 2 | 12,360 | 924 | 1,432 | 10,004 | 5,716 | 4,288 | 0 | 0 | 0 | 0 | 0 |
| | TOTAL GROWTH COSTS | 6,180 | 462 | 716 | 5,002 | 2,858 | 2,144 | 0 | 0 | 0 | 0 | 0 |
| W-129.12 | CHURCH ROAD WATER MAIN & PRV, PART 2 | 683 | 0 | 0 | 683 | 28 | 64 | 285 | 306 | 0 | 0 | 0 |
| | TOTAL GROWTH COSTS | 683 | 0 | 0 | 683 | 28 | 64 | 285 | 306 | 0 | 0 | 0 |
| W-147.00 | COLLINGTON ELEVATED WATER STORAGE FACILITY | 9,648 | 534 | 460 | 4,904 | 1,442 | 2,486 | 976 | 0 | 0 | 0 | 3,750 |
| | TOTAL GROWTH COSTS | 4,823 | 267 | 229 | 2,452 | 721 | 1,243 | 488 | 0 | 0 | 0 | 1,875 |
| W-147.01 | MARLBOBO ZONE WATER STORAGE FACILITY | 8,492 | 85 | 89 | 8,318 | 2,755 | 2,415 | 2,415 | 733 | 0 | 0 | 0 |
| | TOTAL GROWTH COSTS | 4,246 | 43 | 44 | 4,159 | 1,378 | 1,207 | 1,208 | 366 | 0 | 0 | 0 |
| W-197.00 | DSP & CONCEPTUAL DESIGN WATER PROJECTS | 13,599 | 2,024 | 1,578 | 9,997 | 1,885 | 2,270 | 3,535 | 1,196 | 803 | 308 | 0 |
| | TOTAL GROWTH COSTS | 13,143 | 1,755 | 1,426 | 9,962 | 1,850 | 2,270 | 3,535 | 1,196 | 803 | 308 | 0 |
| W-204.00 | LAND & RIGHTS-OF-WAY ACQUISITION - PRINCE GEORGE'S COUNTY TOTAL GROWTH COSTS | 96 43 | 0 0 | 0 0 | 96 43 0 | 76 23 | 6 6 | 14 14 | 0 0 | 0 0 | 0 0 | 0 0 |
| | PRINCE GEORGE'S COUNTY WATER PROJECTS | \$66,002 | \$4,579 | \$4,853 | 52,820 | \$14,712 | \$19,557 | \$13,545 | \$3,895 | \$803 | \$308 | \$3,750 |
| | PRINCE GEORGE'S COUNTY SDC ELIGIBLE COSTS | \$44,745 | \$3,504 | \$3,516 | 35,850 | \$9,125 | \$12,470 | \$9,864 | \$3,280 | \$803 | \$308 | \$1,875 |
| | TER PROJECTS COSTS | \$381,581 | \$127,108 | \$67,814 | 182,909 | \$65,842 | \$64,025 | \$43,905 | \$8,026 | \$803 | \$308 | \$3,750 |
| | TER SDC ELIGIBLE COSTS | \$268,957 | \$51,708 | \$51,881 | 163,493 | \$58,509 | \$56,538 | \$39,924 | \$7,411 | \$803 | \$308 | \$1,875 |

| PROJECT | PROJECT NAME | TOTAL | FY | FY | TOTAL | FY | FY | FY | FY | FY | FY | BEYOND |
|------------------|---|-------------|-------------|-------------|----------------|-------------|-------------|-------------|-------------|-------------|-------------|----------------|
| <u>NUMBER</u> | | <u>COST</u> | <u>2009</u> | <u>2010</u> | <u>6 YEARS</u> | <u>2011</u> | <u>2012</u> | <u>2013</u> | <u>2014</u> | <u>2015</u> | <u>2016</u> | <u>6 Years</u> |
| | SEWERAGE PROJECTS | | | | | | | | | | | |
| <u>BI-COUNTY</u> | ANACOSTIA STORAGE FACILITY | \$36,971 | \$1,153 | \$1,667 | 34,151 | \$6,006 | \$11,352 | \$12,140 | \$4,653 | \$0 | \$0 | \$0 |
| S-89.22 | TOTAL GROWTH COSTS | 3,695 | 115 | 166 | 3,414 | 600 | 1,135 | 1,214 | 465 | 0 | 0 | 0 |
| S-170.06 | SEWER BASIN PLANNING PROGRAM | 4,832 | 252 | 920 | 3,660 | 1,220 | 1,220 | 1,220 | 0 | 0 | 0 | 0 |
| | TOTAL GROWTH COSTS | 4,832 | 252 | 920 | 3,660 | 1,220 | 1,220 | 1,220 | 0 | 0 | 0 | 0 |
| | BI-COUNTY SEWERAGE PROJECTS | \$41,803 | \$1,405 | \$2,587 | 37,811 | \$7,226 | \$12,572 | \$13,360 | \$4,653 | \$0 | \$0 | \$0 |
| | BI-COUNTY SDC ELIGIBLE COSTS | \$8,527 | \$367 | \$1,086 | 7,074 | \$1,820 | \$2,355 | \$2,434 | \$465 | \$0 | \$0 | \$0 |
| | ERY COUNTY PROJECTS | | | | | | | | | | | |
| S-25.03 | TWINBROOK COMMONS SEWER | \$745 | \$335 | \$55 | 355 | \$127 | \$98 | \$89 | \$41 | \$0 | \$0 | \$0 |
| | TOTAL GROWTH COSTS | 745 | 335 | 55 | 355 | 127 | 98 | 89 | 41 | 0 | 0 | 0 |
| S-38.01 | PRESERVE AT ROCK CREEK WASTEWATER PUMPING STATION | 1,092 | 0 | 636 | 456 | 456 | 0 | 0 | 0 | 0 | 0 | 0 |
| | TOTAL GROWTH COSTS | 1,092 | 0 | 636 | 456 | 456 | 0 | 0 | 0 | 0 | 0 | 0 |
| S-38.02 | PRESERVE AT ROCK CREEK WWPS FORCE MAIN | 348 | 16 | 12 | 320 | 165 | 155 | 0 | 0 | 0 | 0 | 0 |
| | TOTAL GROWTH COSTS | 348 | 16 | 12 | 320 | 165 | 155 | 0 | 0 | 0 | 0 | 0 |
| S-53.22 | SENECA WWTP EXPANSION, PART 2 | 37,693 | 840 | 4,986 | 31,867 | 12,529 | 12,529 | 6,809 | 0 | 0 | 0 | 0 |
| | TOTAL GROWTH COSTS | 37,693 | 840 | 4,986 | 31,867 | 12,529 | 12,529 | 6,809 | 0 | 0 | 0 | 0 |
| S-61.01 | REDDY BRANCH WWPS AUGMENTATION | 172 | 0 | 0 | 172 | 172 | 0 | 0 | 0 | 0 | 0 | 0 |
| | TOTAL GROWTH COSTS | 172 | 0 | 0 | 172 | 172 | 0 | 0 | 0 | 0 | 0 | 0 |
| S-84.46 | CLARKSBURG TRIANGLE OUTFALL SEWER, PART 1 | 1,756 | 1,624 | 118 | 14 | 14 | 0 | 0 | 0 | 0 | 0 | 0 |
| | TOTAL GROWTH COSTS | 1,756 | 1,624 | 118 | 14 | 14 | 0 | 0 | 0 | 0 | 0 | 0 |
| S-84.47 | CLARKSBURG TRIANGLE OUTFALL SEWER, PART 2 | 2,256 | 13 | 337 | 1,906 | 1,243 | 663 | 0 | 0 | 0 | 0 | 0 |
| | TOTAL GROWTH COSTS | 2,256 | 13 | 337 | 1,906 | 1,243 | 663 | 0 | 0 | 0 | 0 | 0 |
| S-84.60 | CABIN BRANCH WASTEWATER PUMPING STATION | 2,082 | 9 | 14 | 2,059 | 595 | 1,464 | 0 | 0 | 0 | 0 | 0 |
| | TOTAL GROWTH COSTS | 2,082 | 9 | 14 | 2,059 | 595 | 1,464 | 0 | 0 | 0 | 0 | 0 |

| PROJECT | PROJECT NAME | TOTAL | FY | FY | TOTAL | FY | FY | FY | FY | FY | FY | BEYOND |
|-----------------------------|---|--------------------|------------------|------------------|------------------|------------------|--------------------|--------------------|--------------------|------------------|--------------|----------------|
| <u>NUMBER</u> | | <u>COST</u> | <u>2009</u> | <u>2010</u> | <u>6 YEARS</u> | <u>2011</u> | <u>2012</u> | <u>2013</u> | <u>2014</u> | <u>2015</u> | <u>2016</u> | <u>6 Years</u> |
| <u>MONTGOM</u> S-84.61 | ERY COUNTY PROJECTS (CONTINUED) CABIN BRANCH WWPS FORCE MAIN TOTAL GROWTH COSTS | 376 376 | 0 0 | 48 48 | 328 328 | 274 274 | 54 54 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 |
| S-84.64 | CASEY WEST PROPERTY SEWER MAIN | 653 | 489 | 119 | 45 | 45 | 0 | 0 | 0 | 0 | 0 | 0 |
| | TOTAL GROWTH COSTS | 653 | 489 | 119 | 45 | 45 | 0 | 0 | 0 | 0 | 0 | 0 |
| S-84.65 | TAPESTRY WASTEWATER PUMPING STATION | 607 | 7 | 288 | 312 | 156 | 156 | 0 | 0 | 0 | 0 | 0 |
| | TOTAL GROWTH COSTS | 607 | 7 | 288 | 312 | 156 | 156 | 0 | 0 | 0 | 0 | 0 |
| S-84.66 | TAPESTRY WWPS FORCE MAIN | 118 | 8 | 43 | 67 | 46 | 21 | 0 | 0 | 0 | 0 | 0 |
| | TOTAL GROWTH COSTS | 118 | 8 | 43 | 67 | 46 | 21 | 0 | 0 | 0 | 0 | 0 |
| S-103.15 | WHITE FLINT EAST (NORTH BETHESDA CENTER) SEWER MAIN | 2,139 | 116 | 1,409 | 614 | 553 | 61 | 0 | 0 | 0 | 0 | 0 |
| | TOTAL GROWTH COSTS | 2,139 | 116 | 1,409 | 614 | 553 | 61 | 0 | 0 | 0 | 0 | 0 |
| S-201.00 | LAND & RIGHTS-OF-WAY ACQUISITION - MONTGOMERY COUNTY | 369 | 0 | 345 | 24 | 12 | 12 | 0 | 0 | 0 | 0 | 0 |
| | TOTAL GROWTH COSTS | 48 | 0 | 24 | 24 | 12 | 12 | 0 | 0 | 0 | 0 | 0 |
| | MONTGOMERY COUNTY SEWERAGE PROJECTS | \$50,406 | \$3,457 | \$8,410 | \$38,539 | \$16,387 | \$15,213 | \$6,898 | \$41 | \$0 | \$0 | \$0 |
| | MONTGOMERY COUNTY SDC ELIGIBLE COSTS | \$50,085 | \$3,457 | \$8,089 | \$38,539 | \$16,387 | \$15,213 | \$6,898 | \$41 | \$0 | \$0 | \$0 |
| <u>Prince ge</u> S-43.02 | EORGE'S COUNTY PROJECTS BROAD CREEK WWPS AUGMENTATION TOTAL GROWTH COSTS | \$85,775 78,912 | \$8,731 8,032 | \$5,500 5,060 | 70,884 65,213 | \$2,748 2,528 | \$13,200 12,144 | \$30,791 28,328 | \$22,275 20,493 | \$1,210 1,113 | \$660 607 | \$660 607 |
| S-187.00 | DSP & CONCEPTUAL DESIGN SEWER PROJECTS | 16,900 | 4,121 | 4,959 | 7,564 | 3,168 | 2,010 | 574 | 274 | 678 | 860 | 256 |
| | TOTAL GROWTH COSTS | 16,900 | 4,121 | 4,959 | 7,564 | 3,168 | 2,010 | 574 | 274 | 678 | 860 | 256 |
| S-205.00 | LAND & RIGHTS-OF-WAY ACQUISITION - PRINCE GEORGE'S COUNTY | 99 | 0 | 0 | 99 | 35 | 46 | 0 | 0 | 18 | 0 | 0 |
| | TOTAL GROWTH COSTS | 99 | 0 | 0 | 99 | 35 | 46 | 0 | 0 | 18 | 0 | 0 |
| | . PRINCE GEORGE'S COUNTY SEWERAGE PROJECTS | \$102,774 | \$12,852 | \$10,459 | 78,547 | \$5,951 | \$15,256 | \$31,365 | \$22,549 | \$1,906 | \$1,520 | \$916 |
| | . PRINCE GEORGE'S COUNTY SDC ELIGIBLE COSTS | \$95,911 | \$12,153 | \$10,019 | 72,876 | \$5,731 | \$14,200 | \$28,902 | \$20,767 | \$1,809 | \$1,467 | \$863 |
| | NERAGE PROJECTS COSTS | \$194,983 | \$17,714 | \$21,456 | 154,897 | \$29,564 | \$43,041 | \$51,623 | \$27,243 | \$1,906 | \$1,520 | \$916 |
| | NERAGE SDC ELIGIBLE COSTS | \$154,523 | \$15,977 | \$19,194 | 118,489 | \$23,938 | \$31,768 | \$38,234 | \$21,273 | \$1,809 | \$1,467 | \$863 |
| | C PROJECT COSTS | \$576,564 | \$144,822 | \$89,270 | 337,806 | \$95,406 | \$107,066 | \$95,528 | \$35,269 | \$2,709 | \$1,828 | \$4,666 |
| | C ELIGIBLE COSTS | \$423,480 | \$67,685 | \$71,075 | 281,982 | \$82,447 | \$88,306 | \$78,158 | \$28,684 | \$2,612 | \$1,775 | \$2,738 |