

**MONTGOMERY COUNTY COMPREHENSIVE WATER SUPPLY AND SEWERAGE SYSTEMS PLAN
 APPENDIX A: CAPITAL IMPROVEMENTS PROGRAM (CIP) PROJECTS
 APPROVED 2003 - 2012 PLAN**

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APPENDIX A: CAPITAL IMPROVEMENTS PROGRAM (CIP) PROJECTS

I. INTRODUCTION

The following is a summary listing of major planned water and wastewater projects contained in the approved Capital Improvements Program (CIP) for Fiscal Years (FYs) 2003 - 2008 for the Washington Suburban Sanitary Commission (WSSC) and the City of Rockville. The CIP projects listed generally involve planning, design, land acquisition, and construction of new facilities. These CIP projects include system improvements, to comply with federal and/or state and local mandates, and new facilities to support new development in accordance with the County's approved plans and policies for orderly growth and development. For additional information on these projects, please contact the WSSC or the City of Rockville, as appropriate.

II. WSSC CIP PROJECTS

WSSC's CIP projects involve major infrastructure improvements, and do not include smaller-diameter, local service mains. Water mains (16 or more inches in diameter and 2000 or more feet in length) water pumping stations, storage facilities, and filtration plants are typical capital water supply system projects. Sewer mains (15 or more inches in diameter and 2000 or more feet in length), wastewater pumping stations, force mains, and treatment plants are typical capital sewerage system projects. Projects designated as "Bi-County" also affect service in Prince George's County. Maps showing the general location of WSSC capital water and sewer projects are included as Figures A-F1 and A-F2.

A. Montgomery County Water Supply System Projects

W-3.01: Olney Water Storage Facility				
Project	Current Fiscal Year	Six-Year CIP	Total Project	Project supports 100% customer growth.
Costs:	\$94,000	\$6,015,000	\$6,406,000	
Status: Facility Planning # Completion: FY 2006				
Montgomery High Pressure Zone			Olney Planning Area	
Description: This project involves the community outreach, planning, site selection, design and construction of up to a 4.3 million gallon pumped, ground-level storage tank to serve the Olney area. The High Zone Facility Plan identified the need for additional water storage in this area by 2005 to prevent a water storage deficit. The planning phase of this project has identified the existing Norbeck Water Pumping Station as the preferred project site.				

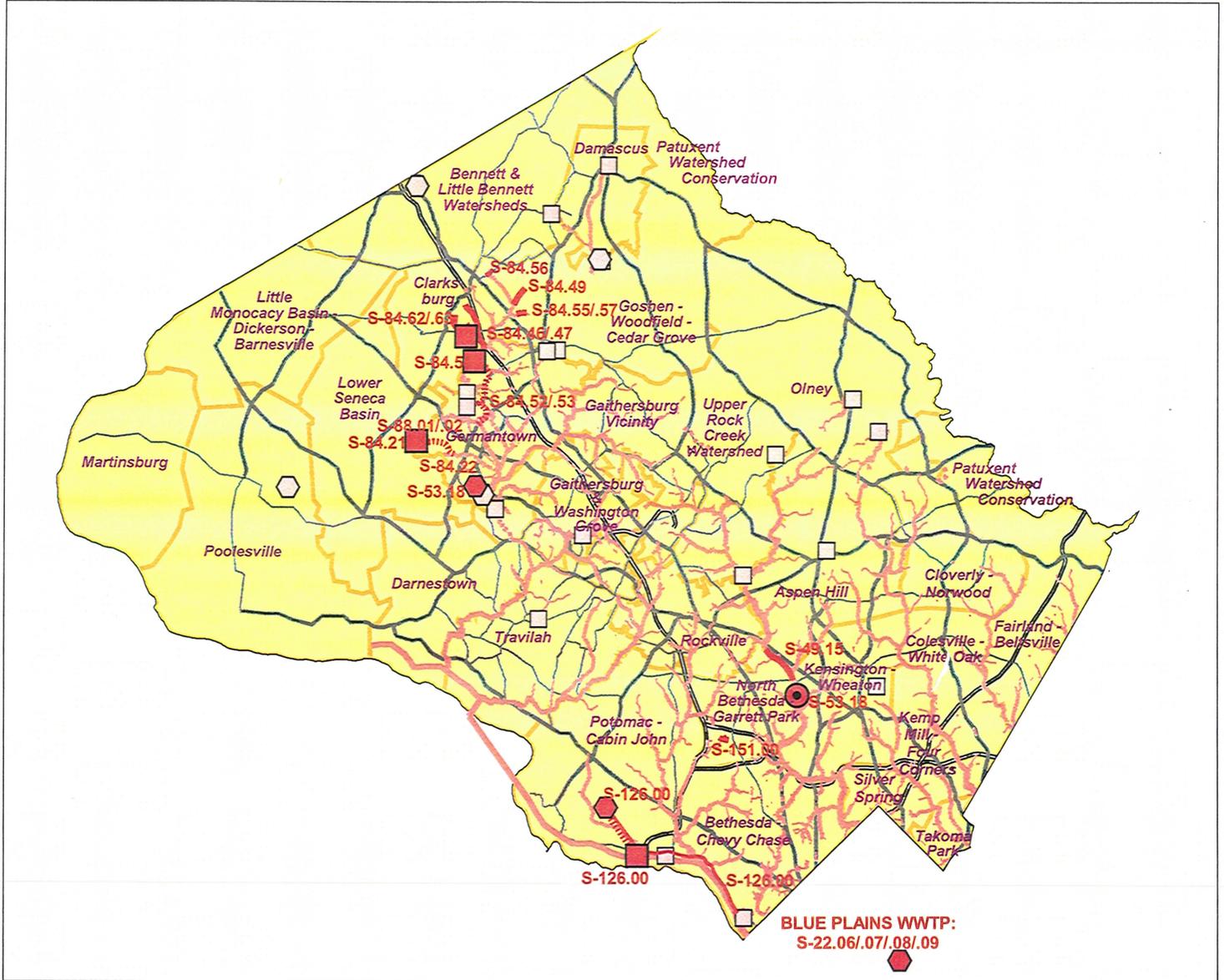
W-37.32: Observation Drive Water Main, Part 1				
Project	Current Fiscal Year	Six-Year CIP	Total Project	Project supports 100% customer growth.
Costs:	\$57,000	\$112,000	\$112,000	
Status: Preliminary Design ■ Completion: Developer Dependent (funded through FY 2004)				
Brink Pressure Zone			Germantown Planning Area	
Description: This project involves the design and construction of approximately of a 16-inch diameter water main along Observation Drive, north of Father Hurley Blvd. The project will provide water service to 200 dwelling units and an office complex on the Milestone property.				

W-46.12: MD Route 27 Relocated/Replacement Water Main				
Project	Current Fiscal Year	Six-Year CIP	Total Project	Project supports 55% customer growth and 45% system improvement.
Costs:	\$0	\$0	\$899,000	
Status: Closeout List ■ Completed in FY 2002				
Montgomery High Zone			Germantown Planning Area	
Description: This project involves the design and construction of approximately 2,200 feet of 24-inch diameter water main along Ridge Rd. (Rte. 27) between Brink Rd. and the Brink Water Storage Tank. The project is intended to meet both existing and future demand in the Brink, Cedar Heights, and Damascus Pressure Zones.				

W-46.13: Clarksburg Town Center Water Main				
Project	Current Fiscal Year	Six-Year CIP	Total Project	Project supports 100% customer growth.
Costs:	\$314,000	\$467,000	\$947,000	
Status: Final Design ■ Completion: Developer Dependent (funded through FY 2004)				
Cedar Heights Pressure Zone			Clarksburg and Bennett - Little Bennett Watershed Planning Areas	
Description: This project involves the planning, design and construction of approximately 7,500 feet of 20-inch diameter water main from Rte. 355 along Clarksburg Rd. and through the Clarksburg Town Center to Piedmont Rd., then southeast along Piedmont Rd. to an existing 16-inch diameter main. The project will serve the 1,300 residential units and 275,000 sq. ft. of commercial, retail, and civic development in the Clarksburg Town Center.				

W-46.14: Clarksburg Area Stage 3 Water Main, Part 1				
Project	Current Fiscal Year	Six-Year CIP	Total Project	Project supports 100% customer growth.
Costs:	\$0	\$2,983,000	\$2,983,000	
Status: Facility Planning ■ Completion: Developer Dependent (funded through FY 2007)				
Brink Pressure Zone			Clarksburg Planning Area	
Description: This project involves the design and construction of two separate sections of main: 1) 5,300 feet of 24-inch diameter main along Brink Rd. from Ridge Rd. to West Old Baltimore Rd., and then along West Old Baltimore Rd. to an existing 20-inch diameter main; and 2) 5,000 feet of 24-inch diameter main along West Old Baltimore Rd. in the vicinity of I-270. This main will serve the area designated as Stage 3 in the 1994 Clarksburg Master Plan. The size of the main may change depending on Stage 3 development plans and the location of the proposed water storage facility (W-46.15).				

Figure A-F2: WSSC Sewerage System CIP Projects (FYs 2003-2008)



MAP LEGEND

- Capital Improvements Program Projects
- WWPS
 - ⬡ WWTP
 - Sewage Storage Facility
 - Force Main
 - Gravity Sewer
 - WWTP Outfall
 - ⬡ Existing WWTP
 - Existing WWPS
 - - - Existing Force Main
 - Existing Gravity Sewer Mains
 - 10"- to 14"-Diameter Gravity Mains
 - 15"- to 42"-Diameter (CIP) Trunk Mains
 - 48"- or Larger-Diameter (CIP) Trunk Mains

- Major Roads
- County Roads
 - State Roads and Highways
 - US & Interstate Highways
 - ⬡ M-NCPPC Planning Areas



Montgomery County, Maryland
2003 - 2012
Comprehensive Water Supply
and Sewerage Systems Plan

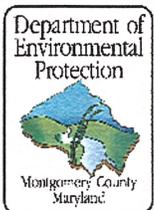
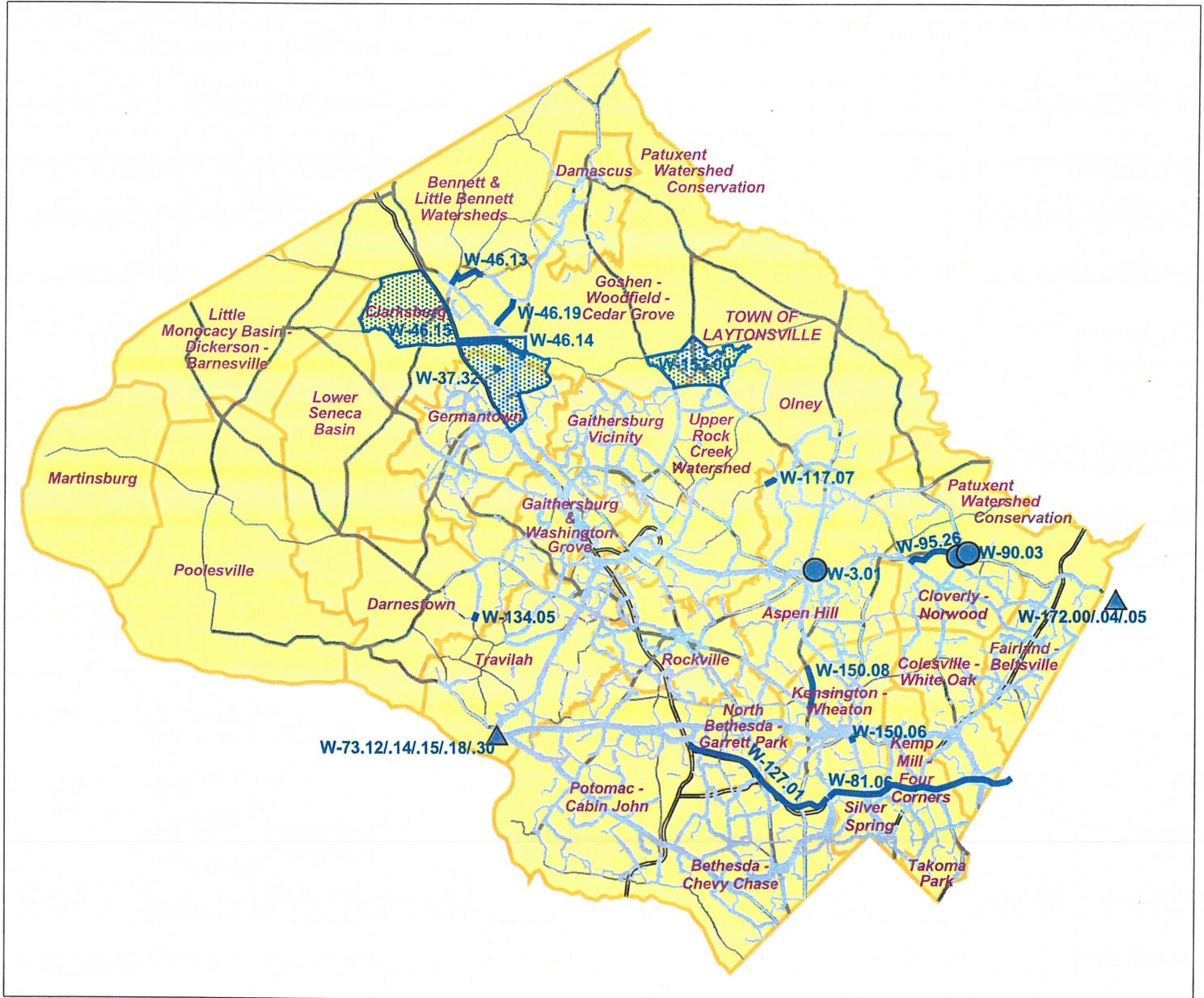


Figure A-F1: WSSC Water Supply System CIP Projects (FYs 2003 - 2008)



MAP LEGEND

Capital Improvements Program Projects

- Water Filtration Plant
- Water Storage Tanks
- Water Transmission Mains
- Facility Study Areas
- Existing Water Mains
 - 12" to 15"-Dia. Mains
 - 16" to 42"-Dia. (CIP) Mains
 - 48" or Larger-Dia. (CIP) Mains

Major Roads

- County Roads
- State Roads and Highways
- US & Interstate Highways
- Town of Laytonsville
- M-NCPPC Planning Areas



Montgomery County, Maryland
2003 - 2012

Comprehensive Water Supply
and Sewerage Systems Plan



W-46.15: Clarksburg Elevated Water Storage Facility				
Project	Current Fiscal Year	Six-Year CIP	Total Project	Project supports 100% customer growth.
Costs:	\$104,000	\$518,000	\$622,000*	
Status: Facility Planning ■ Completion: Developer Dependent (funded through FY 2005*)				
Brink Pressure Zone			Clarksburg and Germantown Planning Areas	
Description: This project involves the community outreach, site selection, and preliminary design for a future one million gallon, elevated water storage facility in the Brink Pressure Zone. (*Note that this project does not include construction funding at this time.) Although originally placed in the CIP in anticipation of rapid development growth in the Brink Pressure Zone west of I-270, WSSC's reevaluation of the latest growth forecasts indicates a storage deficit for this zone and a need to initiate the project independent of development activity west of I-270.				

W-46.18: Newcut Road Water Main, Part 2				
Project	Current Fiscal Year	Six-Year CIP	Total Project	Project supports 100% customer growth.
Costs:	\$543,000	\$650,000	\$673,000	
Status: Preliminary Design ■ Completion: Developer Dependent (funded though FY 2004)				
Cedar Heights Pressure Zone			Clarksburg Planning Area	
Description: This project involves the design and construction of 5,700 feet of 16-inch diameter water main along Newcut Rd. between Frederick Rd. (Rte. 355) and Skylark Rd.				

W-46.19: Newcut Road Water Main, Part 1				
Project	Current Fiscal Year	Six-Year CIP	Total Project	Project supports 100% customer growth.
Costs:	\$0	\$0	\$177,000	
Status: FY 2003 Close Out List ■ Project completed.				
Montgomery High Zone			Clarksburg Planning Area	
Description: This project involves the design and construction of approximately 1,100 feet of 16-inch diameter water main along Newcut Rd. between Frederick Rd. (Rte. 355) and Skylark Rd. The project supports new development in Stage 3 of the 1994 Clarksburg Master Plan.				

W-46.20: Clarksburg Area Stage 3 Water Main, Part 2				
Project	Current Fiscal Year	Six-Year CIP	Total Project	Project supports 100% customer growth.
Costs:	\$24,000	\$745,000	\$745,000	
Status: Planning ■ Completion: Developer Dependent (funded through FY 2005)				
Brink Pressure Zone			Clarksburg Planning Area	
Description: This project involves the design and construction of 1,700 feet of 24-inch diameter main along West Old Baltimore Rd. to serve the Linthicum East project (1994 Clarksburg Master Plan Stage 3. The project was split from W-46.14 (see above).				

W-90.03: Hampshire Greens Water Storage Facility				
Project	Current Fiscal Year	Six-Year CIP	Total Project	Project supports 53% customer growth and 47% system improvement.
Costs:	\$0	\$0	\$8,191,000	
Status: FY 2003 Close Out List ■ Project completed in FY 2002.				
Brown's Corner Pressure Zone			Cloverly - Norwood Planning Area	

W-90.03: Hampshire Greens Water Storage Facility
Description: This project involves the design and construction of three 1.25 million gallon (MG) elevated water storage tanks (3.75 MG total) to serve the Brown's Corner Pressure Zone. These tanks replace the Brown's Corner Standpipe which will be dismantled. (Formerly known as the Brown's Corner Storage Facility.)

W-117.07: Bowie Mill Road Water Loop				
Project	Current Fiscal Year	Six-Year CIP	Total Project	Project supports 100% customer growth.
Costs:	\$0	\$0	\$264,000	
Status: Project Pending Closeout ■ Completed				
Montgomery High Zone			Olney Planning Area	
Description: This project involves the design and construction of approximately 2,050 feet of 16-inch diameter water main along Bowie Mill Rd. between Bready Rd. and Cashell Rd. The project provides a second feed for outage protection to the Barnsley Tract (Norbeck Grove) and surrounding communities.				

W-134.05: Jones Lane, Gaithersburg Area				
Project	Current Fiscal Year	Six-Year CIP	Total Project	Project supports 100% customer growth.
Costs:	\$41,000	\$98,000	\$155,000	
Status: Final Design ■ Completion: Developer Dependent (funded through FY 2004)				
Colesville Pressure Zone			Darnestown Planning Area	
Description: This project involves the design, right-of-way acquisition, and construction of 740 feet of 16-inch diameter water main along Jones Ln. north from Turkey Foot Rd.				

W-150.08: High Zone Water Main, Part 3				
Project	Current Fiscal Year	Six-Year CIP	Total Project	Project supports 50% customer growth and 50% system improvement.
Costs:	\$0	\$0	\$5,430,000	
Status: Closeout List ■ Project Completed in FY 2002				
Montgomery High Zone			Aspen Hill Planning Area	
Description: This project involves the community outreach, alignment selection, design, and construction of approximately 8,860 feet of 48-inch diameter water main north along Connecticut Ave. (Rte. 185) from Viers Mill Rd. (Rte. 586) to the vicinity of Mathew Henson State Park. This project is needed, in conjunction with the High Zone Pumping and Main Zone Storage Facilities, to accomodate increased demand and redundant supply to the High Zone.				

W-153.00: Laytonsville Elevated Tank and Pumping Station				
Project	Current Fiscal Year	Six-Year CIP	Total Project	Project supports 100% customer growth.
Costs:	\$270,000	\$270,000*	\$328,000*	
Status: Planning ■ Completion: FY 2003 (planning only)				
Montgomery County High Zone			Goshen - Woodfield - Cedar Grove and Olney Planning Areas	
Description: This project involves the planning and preliminary design for the creation of a new pressure zone to serve the Town of Laytonsville and surrounding communities.				

W-200.00: Land & Rights-of-Way Acquisition				
Project Costs:	Current Fiscal Year	Six-Year CIP	Total Project	Project supports 100% customer growth.
	\$116,000	\$286,000	\$286,000	
Status: Various Stages of Planning & Design ■ Completion: funded through FY 2005				
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 specific projects. These costs do not include purchases which have already been completed.				

B. Bi-County Water Supply System Projects

W-73.03: Potomac WFP - Solids Handling Facility				
Project Costs:	Current Fiscal Year	Six-Year CIP	Total Project	Project supports 100% customer growth.
	\$0	\$0	\$28,195,000	
Status: Closeout List ■ Project Completed in FY 2002				
Bi-County Service Area			Travilah Planning Area	
Description: This project provides for the design and construction of the facilities required to comply with the revised NPDES permit issued by MDE for the Potomac Water Filtration Plant. Solids from the flocculation/sedimentation basins will be separated from the backwash flows, and pumped out of the sedimentation basins, using submersible pumps, to three gravity thickeners. The thickened solids will be pumped to the dewatering facility, which will use three belt filter presses. The gravity thickener overflow and filtrate will be discharged to a sanitary sewer for ultimate treatment at the Blue Plains WWTP, as long as Potomac Interceptor and Blue Plains WWTP capacities are adequate. The backwash will be discharged directly to the Potomac River without treatment per the MDE consent agreement and the NPDES permit. Solids will be hauled by truck offsite. An 80 ton silo within the dewatering building will provide on-site storage for dewatered sludge. The existing clarifiers will be modified to allow for continuous solids removal.				

W-73.12: Potomac WFP Hydropneumatic Surge Tanks				
Project Costs:	Current Fiscal Year	Six-Year CIP	Total Project	Project supports 100% system improvement.
	\$2,980,000	\$5,259,000	\$9,053,000	
Status: Preliminary Design ■ Completion: FY 2004				
Bi-County Service Area			Travilah Planning Area	
Description: This project provides for the design and construction of hydropneumatic surge tanks at the Potomac Water Filtration Plant to protect the water distribution system from high and low pressure extremes that result from surge events created by pump trips (power shut-off) at the Plant. Two spherical tanks (estimated 43'-6" diameter) are needed to serve the Prince George's and Montgomery County Main Zones.				

W-73.14: Potomac WFP Reliability/Water Quality Study				
Project Costs:	Current Fiscal Year	Six-Year CIP	Total Project	Project supports 100% system improvement.
	\$58,000	\$58,000	\$1,618,000	
Status: Facility Planning ■ Completion: July 2002				
Bi-County Service Area			Travilah Planning Area	

W-73.14: Potomac WFP Reliability/Water Quality Study

Description: This study is a facility plan to determine the most cost-effective alternative to provide adequate reliability of treated water from the Potomac Water Filtration Plan, consistent with WSSC policy and Safe Drinking Water Act requirements, over a 30-year planning period. The study will examine an off-shore raw water intake, possible use of the Travilah Road quarry as a raw water reservoir, flocculation, sedimentation, filtration, and disinfection processes and propose alternatives to improve the treatment capability and overall treatment reliability.

W-73.15: Potomac WFP Filter Upgrades

Project	Current Fiscal Year	Six-Year CIP	Total Project	Project supports 100% customer growth.
Costs:	\$3,680,000	\$3,680,000	\$3,680,000	

Status: Preliminary Design ■ Completion: FY 2003

Bi-County Service Area Travilah Planning Area

Description: This project is to provide funding in FY 2003 for critical projects that are approved as a result of WSSC project W-73.14, Potomac Reliability/Water Quality Study. A critical project is one that the study determines would have to be expedited in order to be completed in time to provide the required level of service to our customers. Possible projects could include any of the following: modifications to improve the filter hydraulics including replacement of the filter media and underdrain, the addition of monitoring equipment, replacement of filter effluent piping, and electrical improvements to the emergency power systems, unit substations, and motor control centers. Funding for FY 2004 and beyond will be identified in the FY 2004 CIP when alternatives have been identified at the completion of the study.

W-73.18: Potomac WFP Emergency Power

Project	Current Fiscal Year	Six-Year CIP	Total Project	Project supports 100% system improvement.
Costs:	\$600,000	\$11,991,000	\$11,991,000	

Status: In planning; no land acquisition required ■ Completion: June 2007

Bi-County Service Area Travilah Planning Area

Description: This project provides for the planning, design and construction of an emergency power generator at the Potomac Water Filtration Plant. The generator will be sized to provide enough power to for the plant to treat and pump 100 million gallons per day. Project costs are preliminary planning estimates only. New project: adopted as a FY '03-'08 CIP amendment on October 22, 2002.

W-73.30: Potomac WFP Submerged Channel Intake Study

Project	Current Fiscal Year	Six-Year CIP	Total Project	Project supports 100% system improvement.
Costs:	\$798,000	\$936,000	\$936,000	

Status: Facility planning. ■ Completion: June 2004

Bi-County Service Area Travilah Planning Area

Description: This project provides preliminary funding for a detailed study of a submerged channel intake to provide an additional barrier against drinking water contamination, as well as to enhance reliability and reduce treatment costs by drawing raw water from a location in the river with cleaner, more stable water quality. The Montgomery and Prince George's County Councils will review the study and consider whether to continue with the planning, design, and construction of a submerged channel intake. New project: adopted as a FY '03-'08 CIP amendment on October 22, 2002.

W-81.06: Bi-County Water Supply Improvement Project				
Project Costs:	Current Fiscal Year	Six-Year CIP	Total Project	Project supports 30% customer growth and 70% system improvement.
	\$231,000	\$231,000	\$53,350,000	
Status: Under Construction ■ Completion: July 2002				
Montgomery Main Pressure Zone and Prince George's Main Pressure Zone			Silver Spring, Kemp Mill - Four Corners, and Colesville - White Oak Planning Areas	
Description: The original construction project consists of relining approximately 33,000 feet of the existing 120-inch diameter Bi-County Water Tunnel and six riser shafts along the Beltway from Beach and Stonybrook Drives to I-95. Also included is the design, installation, and initial monitoring of a cathodic protection system to prevent corrosion of the steel liner.				

W-95.26: Patuxent Supply to Montgomery County High Zone, Part 10				
Project Costs:	Current Fiscal Year	Six-Year CIP	Total Project	Project supports 100% system improvement.
	\$1,797,000	\$384,000	\$384,000	
Completion: Dependent on MCDPW/T				
Montgomery High Zone			Cloverly - Norwood Planning Area	
Description: The Patuxent Supply to Montgomery High Zone, Part 10 project is coordinated with the construction schedule of the Montgomery County Department of Public Works and Transportation (MC-DPW&T) road improvement project for Norbeck Road. This supply main will eventually supply the Hampshire Greens Water Storage Facility project and provide redundancy in the event of an outage and subsequent interruption of supply from the Potomac Water Filtration Plant to the Montgomery County High Zone.				

W-127.01: Potomac Bi-County Supply Main				
Project Costs:	Current Fiscal Year	Six-Year CIP	Total Project	Project supports 60% customer growth and 40% system improvement.
	\$1,760,000	\$29,909,000	\$68,313,000	
Status: Facility Planning ■ Completion: FY 2011				
Montgomery Main Pressure Zone, Prince George's High Pressure Zone			North Bethesda - Garrett Park and Bethesda - Chevy Chase Planning Areas	
Description: This project involves an alignment study, extensive community outreach efforts, design and construction of 30,200 feet of a proposed 84-inch diameter water main between the intersection of Tuckerman Lane and Route I-270 and the western terminus of the Bi-County Water Tunnel near the area where Rock Creek crosses the Capital Beltway (Interstate 495).				

W-150.06: Wheaton Water Main Modifications				
Project Costs:	Current Fiscal Year	Six-Year CIP	Total Project	Project supports 100% customer growth.
	\$388,000	\$2,812,000	\$3,374,000	
Status: Preliminary Design ■ Completion: FY 2005				
Montgomery Main Pressure Zone; Prince George's Main Pressure Zone			Kensington - Wheaton Planning Area	
Description: This project provides for the design, construction and a community outreach program for an eductor system with connections to the existing 48-inch transmission main in Kensington Boulevard and Wheaton Hill Road. The flow of high pressure water through the eductor creates a vacuum on the suction line. The eductor system would deliver the water stored in Reservoir No. 3 and No. 4 into the Main Zone system to meet the demands on either side of the system's high points.				

W-172.00: Patuxent WFP Ultraviolet Disinfection Facilities				
Project Costs:	Current Fiscal Year	Six-Year CIP	Total Project	Project supports 100% system improvement.
	\$219,000	\$4,998,000	\$4,998,000	
Status: facility planning; no land or rights-of-way required ■ Completion: FY 2006				
Bi-County service area			Prince George's County	
Description: The project provides for the planning, design, and construction of ultraviolet (UV) disinfection facilities to supplement existing disinfection facilities. UV disinfection will result in improved protection against pathogenic microorganisms (e.g. <i>Cryptosporidium</i>). New project: adopted as a FY '03-'08 CIP amendment on October 22, 2002.				

W-172.04: Patuxent Water Treatment Implementation				
Project Costs:	Current Fiscal Year	Six-Year CIP	Total Project	Project supports 100% system improvement.
	\$9,137,000	\$22,164,000	\$45,106,000	
Status: Under Construction ■ Completion: January 2005				
Bi-County Service Area			Prince George's County	
Description: The purpose of this project is to replace the existing Patuxent Water Filtration Plant with a new facility. This will provide for the project design and construction of facilities necessary to insure continued water treatment capabilities from the Patuxent River. This project includes construction of an advanced conventional water treatment plant on the existing site with discharge of residuals to the Parkway Wastewater Treatment Plan. This project consists of a new plant with 56 MGD of nominal treatment capacity and the capability to provide emergency capacity up to approximately 72 MGD. A second phase would include an additional 16 MGD of nominal treatment capacity and the ability to provide 120 MGD of emergency capacity. The project funding shown above in Block "B" provides for only the first phase, as well as funds necessary for plant modifications that will allow a second phase of the project to be constructed without retrofitting the first phase portion of the plant. The additional phase of the project is primarily needed to provide additional emergency reliability (redundancy) to the water distribution system. If in future years, a decision is made that an additional phase is necessary, additional funds will need to be provided at that time.				

W-172.05: Patuxent WFP Phase II Expansion				
Project Costs:	Current Fiscal Year	Six-Year CIP	Total Project	Project supports 100% system improvement.
	\$1,870,000	\$33,002,000	\$33,002,000	
Status: facility planning ■ Completion: FY 2007				
Bi-County service area			Prince George's County	
Description: This project provides for the planning, design, and construction of a sixth treatment train to the Patuxent Water Filtration Plant, boosting the plant's nominal capacity from 56 million gallons per day (MGD) to 72 MGD, and the emergency capacity from 72 MGD to 120 MGD. Also included is a fourth raw water main from the Rocky Gorge Dam to the plant, and modification and expansion of the Rocky Gorge Raw Water Pumping Station. Construction will not proceed until both County Council have approved the new raw water supply main alignment. New project: adopted as a FY '03-'08 CIP amendment on October 22, 2002.				

C. Montgomery County Sewerage System Projects

S-49.15: Rock Creek Wastewater Facilities				
Project Costs:	Current Fiscal Year	Six-Year CIP	Total Project	Project supports 100% customer growth.
	\$1,494,000	\$2,988,000	\$25,276,000	
Status: Preliminary Design ■ Completion: FY 2004				

S-49.15: Rock Creek Wastewater Facilities	
Rock Creek Sewershed	City of Rockville and North Bethesda-Garret Park Planning Areas
<p>Description: This project is for the design and construction of improvements to the existing Rock Creek Storage Facility, a relief sewer in Rock Creek basin, and a new wastewater storage facility. These projects were recommended under the Rock Creek Wastewater Facility Plan. No design of any option which is contrary to the 1985 Intermunicipal Agreement (IMA) or the 1983 Bi-County Agreement shall go forward until Regional IMA Users and both Councils have approved a policy that would allow such an alternative.</p>	

S-53.18: Seneca Creek WWTP Expansion				
Project Costs:	Current Fiscal Year	Six-Year CIP	Total Project	Project supports 53% customer growth, 28% system improvement, and 19% environmental regulation.
	\$7,433,000	\$7,433,000	\$68,662,000	
Status: Under Construction ■ Completion: May 2003				
Seneca Creek Sewershed			Lower Seneca Basin Planning Area	
<p>Description: This project involves the design and construction of a new 20 million gallons per day wastewater treatment plan adjacent to the existing Seneca Wastewater Treatment Plant. The new plant will replace the 5 million gallons per day capacity of the existing plant and provide treatment capacity for existing and future flows.</p>				

S-84.21: Hoyles Mill Wastewater Pumping Station				
Project Costs:	Current Fiscal Year	Six-Year CIP	Total Project	Project supports 100% customer growth.
	\$0	\$0	\$1,681,000	
Status: Closeout List ■ Completion: FY 2002				
Little Seneca Creek Sewershed			Germantown Planning Area	
<p>Description: This project involves the design and construction of a 1.7 MGD wastewater pumping station adjacent to Hoyles Mill Road. The project will be designed and constructed by developers and acquired by WSSC through this project, possibly funded with Montgomery County development district bonds. If the development district is not formed, funding will be by developer contribution.</p>				

S-84.22: Hoyles Mill Road WWPS Force Main				
Project Costs:	Current Fiscal Year	Six-Year CIP	Total Project	Project supports 100% customer growth.
	\$0	\$0	\$2,088,000	
Status: Closeout List ■ Completion: FY 2001				
Little Seneca Creek Sewershed			Germantown Planning Area	
<p>Description: This project involves the design and construction of approximately, 8,500 feet of 14-inch diameter force main from the Sewage Pumping Station Access Road at Hoyles Mill Road and Little Seneca Creek, through the King's Crossing Subdivision, along Hoyles Mill Road to east of Schaeffer Road, and 1,795 feet of 6-inch diameter water main to provide service to the pumping station. The project will be designed and constructed by developers and acquired by WSSC through this project. If the development district is not formed, funding will be by developer contribution.</p>				

S-84.46: Clarksburg Triangle Outfall Sewer				
Project Costs:	Current Fiscal Year	Six-Year CIP	Total Project	Project supports 100% customer growth.
	\$11,000	\$11,000	\$22,000	
Status: Planning ■ Completion: Developer Dependent (funded through FY 2003)				

S-84.46: Clarksburg Triangle Outfall Sewer	
Little Seneca Creek Sewershed	Clarksburg Planning Area
Description: This project involves nominal funding for the planning and design costs of approximately 3,300 feet of 21-inch diameter outfall sewer along a tributary west of and parallel to US Interstate 270 and south of West Old Baltimore Road. This sewer is projected to serve new development in Stage 3 of the Clarksburg planning area west of I-270.	

S-84.47: Clarksburg Triangle Outfall Sewer, Part 2				
Project Costs:	Current Fiscal Year	Six-Year CIP	Total Project	Project supports 100% customer growth.
	\$11,000	\$11,000	\$22,000	
Status: Planning ■ Completion: Developer Dependent (funded through FY 2003)				
Little Seneca Creek Sewershed		Clarksburg Planning Area		
Description: This project involves nominal funding for the planning and design costs of approximately 2,800 feet of 21-inch diameter outfall sewer along a tributary west of and parallel to US Interstate 270 and north of West Old Baltimore Road. This sewer is projected to serve new development in Stage 3 of the Clarksburg planning area west of I-270.				

S-84.49: Clarksburg Area Stage 3 - Little Seneca Creek				
Project Costs:	Current Fiscal Year	Six-Year CIP	Total Project	Project supports 100% customer growth.
	\$903,000	\$979,000	\$979,000	
Status: Preliminary Design ■ Completion: Developer Dependent (funded through FY 2004)				
Little Seneca Creek Sewershed		Clarksburg & Vicinity Planning Area		
Description: This project involves the design and construction of approximately 3,600 feet of 15-inch diameter sewer along Little Seneca Creek, north of Newcut Road.				

S-84.50: Crystal Rock Wastewater Pumping Station				
Project Costs:	Current Fiscal Year	Six-Year CIP	Total Project	Project supports 100% customer growth.
	\$3,729,000	\$6,970,000	\$13,663,000	
Status: Under Construction ■ Completion: April 2004				
Little Seneca Creek Sewershed		Germantown Planning Area		
Description: This project provides for the design and construction of a new 24 mgd wastewater pumping station, appurtenant facilities, and improvements to the existing Little Seneca Wastewater Pumping Station including the addition of an odor control chemical facility and an air injection station. The new wastewater pumping station will be located at Site "M" as described in the Little Seneca area Facility Plan. The new air injection station will serve both the Little Seneca force Main and the Crystal Rock Wastewater Pumping Station and will be located near the intersection of the relocated Route 118 and Waters Road.				

S-84.52: Crystal Rock Wastewater Pumping Station Force Main, Part 1				
Project Costs:	Current Fiscal Year	Six-Year CIP	Total Project	Project supports 100% customer growth.
	\$3,364,000	\$3,723,000	\$5,388,000	
Status: Final Design ■ Completion: October 2003				
Little Seneca Creek Sewershed		Germantown Planning Area		

S-84.52: Crystal Rock Wastewater Pumping Station Force Main, Part 1				
Description: This project provides for the design and construction of 8,100 feet of 36-inch diameter sewage force main, appurtenant facilities and 1,525 feet of 6 inch electrical conduit to serve the Crystal Rock Wastewater Pumping Station. The force main will extend from Crystal Rock Wastewater Pumping Station to Crystal Rock Drive, south to Father Hurley Boulevard to the beginning of Wisteria Drive.				

S-84.53: Crystal Rock Wastewater Pumping Station Force Main, Part 2				
Project Costs:	Current Fiscal Year	Six-Year CIP	Total Project	Project supports 100% customer growth.
	\$966,000	\$1,369,000	\$3,192,000	
Status: Final Design ■ Completion: FY 2004				
Little Seneca Creek Sewershed			Germantown Planning Area	
Description: This project provides for the design and construction of 3,300 feet of 36-inch diameter force main and appurtenant facilities to serve the Crystal Rock Wastewater Pumping Station. The force main will extend from Part 1 in the vicinity of Wisteria Drive and proceed easterly along Wisteria Drive to Waters Road, then south along Waters Road to the 36-inch connection at relocated Route 118.				

S-84.55: Clarksburg Area Stage 3 - Newcut Road Neighborhood, Part 1				
Project Costs:	Current Fiscal Year	Six-Year CIP	Total Project	Project supports 100% customer growth.
	\$0	\$0	\$177,000	
Status: Closeout List ■ Completion: FY 2001				
Little Seneca Creek Sewershed			Clarksburg Planning Area	
Description: This project involves the design and construction of approximately 700 feet of 18-inch diameter sewer along a tributary of Little Seneca Creek, south of Newcut Road.				

S-84.56: Clarksburg Town Center Outfall Sewer, Part 2				
Project Costs:	Current Fiscal Year	Six-Year CIP	Total Project	Project supports 100% customer growth.
	\$0	\$0	\$99,000	
Status: Closeout List ■ Completion: FY 2001				
Little Seneca Creek Sewershed			Clarksburg Planning Area	
Description: This project is required to serve the Clarksburg Town Center following the completion of the Clarksburg Area Trunk Sewer, Stages 2 and 3.				

S-84.57: Clarksburg Area Stage 3 - Newcut Road Neighborhood, Part 2				
Project Costs:	Current Fiscal Year	Six-Year CIP	Total Project	Project supports 100% customer growth.
	\$0	\$0	\$229,000	
Status: Closeout List ■ Completion: FY 2001				
Little Seneca Creek Sewershed			Clarksburg Planning Area	
Description: This project involves the design and construction of approximately 1,470 feet of 18-inch diameter sewer along a tributary of Little Seneca Creek, south of Newcut Road.				

S-84.60: Cabin Branch WWPS				
Project Costs:	Current Fiscal Year	Six-Year CIP	Total Project	Project supports 100% customer growth.
	\$11,000	\$11,000	\$22,000	

S-84.60: Cabin Branch WWPS

Status: Planning ■ Completion: Developer Dependent (funded through FY 2003)

Little Seneca Creek Sewershed	Clarksburg Planning Area
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Description: This project involves nominal funding for the planning and design costs of a 2.1 mgd wastewater pumping station. This wastewater pumping station is projected to serve new development in the Stage 3 of the Clarksburg planning area west of I-270; this project will not serve Clarksburg Development Stage 4 areas.

S-84.61: Cabin Branch WWPS Force Main

Project	Current Fiscal Year	Six-Year CIP	Total Project	Project supports 100% customer growth.
Costs:	\$11,000	\$11,000	\$22,000	

Status: Planning ■ Completion: Developer Dependent (funded through FY 2003)

Little Seneca Creek Sewershed	Clarksburg Planning Area
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Description: This project involves nominal funding for the planning and design costs of 3,000 feet of 10-inch force main, downstream of the Cabin Branch Wastewater Pumping Station. The wastewater pumping station is projected to serve new development in Stage 3 of the Clarksburg planning area, west of I-270; this project will not serve Clarksburg Development Stage 4 areas.

S-84.62: Cabin Branch Tributary Sewer

Project	Current Fiscal Year	Six-Year CIP	Total Project	Project supports 100% customer growth.
Costs:	\$11,000	\$11,000	\$22,000	

Status: Planning ■ Completion: Developer Dependent (funded through FY 2003)

Seneca Creek Drainage Basin Sewershed	Clarksburg Planning Area
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Description: This project involves nominal funding for the planning and design costs of 5,100 feet of 15-inch diameter sewer. The outfall sewer is projected to serve new development in Stage 3 of the Clarksburg planning area, west of I-270; this project will not serve Clarksburg Development Stage 4 areas.

S-84.63: Cabin Branch Trunk Sewer

Project	Current Fiscal Year	Six-Year CIP	Total Project	Project supports 100% customer growth.
Costs:	\$11,000	\$11,000	\$22,000	

Status: Planning ■ Completion: Developer Dependent (funded through FY 2003)

Little Seneca Creek Sewershed	Clarksburg Planning Area
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Description: This project involves nominal funding for the planning and design costs of 5,500 feet of 15-inch diameter sewer. The trunk sewer is projected to serve new development in Stage 3 of the Clarksburg planning area, west of I-270; this project will not serve Clarksburg Development Stage 4 areas.

S-88.01: Kings Crossing Outfall Sewer, Part 1

Project	Current Fiscal Year	Six-Year CIP	Total Project	Project supports 100% customer growth.
Costs:	\$0	\$0	\$415,000	

Status: Closeout List ■ Completion: FY 2001

Little Seneca Creek Sewershed	Germantown Planning Area
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Description: This project involves the design and construction of approximately 1,127 feet of 15-inch and 639 feet of 16-inch diameter outfall sewer along Little Seneca Creek, north of Hoyles Mill Road, to provide service to Kings Crossing Subdivision and King/Hargett Subdivision .

S-88.02: Kings Crossing Outfall Sewer, Part 2				
Project	Current Fiscal Year	Six-Year CIP	Total Project	Project supports 100% customer growth.
Costs:	\$0	\$0	\$171,000	
Status: Closeout List ■ Completion: FY 2001				
Little Seneca Creek Sewershed			Germantown Planning Area	
Description: This project involves the design and construction of approximately 2,000 feet of 15-inch diameter outfall sewer north of Hoyles Mill Road, to provide service to Kings Crossing Subdivision and King/Hargett Subdivision.				

S-126.00: Rock Run Sewage Treatment Facility				
Project	Current Fiscal Year	Six-Year CIP	Total Project	Project supports 100% customer growth.
Costs:	\$0	\$0	\$222,717,000	
Status: Site Acquired ■ Completion: Unknown				
			Potomac-Cabin John Planning Area	
Description: Further funding for this project has been deferred beyond six years pending completion of an update to the long range strategic sewerage plan. Design and construction of a 20 mgd advanced wastewater treatment plant, located on the Avenel Farm Tract, which will treat wastewater obtained from the Dulles Interceptor and discharge the effluent at the confluence of Little Falls Branch and the Potomac River, below all permanent raw (drinking) water intakes. Approximately 950 feet or 48-inch diameter pipe will convey the influent from the Dulles Interceptor to a pumping station which will be located at the east boundary of the David Taylor Model Basin. The influent will then be pumped to the plant through 11,400 feet of 48-inch diameter force main. Approximately 21,500 feet of 27-inch and 30-inch diameter pressure pipe will convey the effluent to the Maryland Upper Potomac Interceptor near the mouth of Cabin John Creek. The 14,800 feet of existing 36-inch diameter interceptor will be converted to an effluent pipeline to carry the effluent the rest of the way to the point of discharge. Funds through FY01 have been spent for tree planting and the construction of the Equestrian Center Modular Buildings and are shown in Block B, Column 9, under "Construction." (For additional information and the County's recommendations concerning this project, please see Chapter 4, Section II.C.1.d.ii.)				

S-151.00: Rock Spring Centre Outfall Sewer				
Project	Current Fiscal Year	Six-Year CIP	Total Project	Project supports 100% customer growth.
Costs:	\$131,000	\$131,000	\$398,000	
Status: Final Design Complete ■ Completion: Developer Dependent (funded through 2003)				
Cabin John Sewershed			North Bethesda-Garrett Park Planning Area	
Description: This project involves the design and construction of 1,700 feet of 15-inch diameter sewer main along Rockledge Drive in Bethesda.				

S-201.00: Land & Rights-of-Way Acquisition - Montgomery County				
Project	Current Fiscal Year	Six-Year CIP	Total Project	Project supports 100% customer growth/system improvement.
Costs:	\$25,000	\$25,000	\$39,000	
Status: Various Stages of Planning & Design ■ Completion: not applicable				
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 the specific projects listed on the next page. These costs do not include purchases which have already been completed.				

D. Bi-County Sewerage System Projects

S-22.06: Blue Plains WWTP: Liquid Train Projects, Part 2				
Project	Current Fiscal Year	Six-Year CIP	Total Project	Project supports 17% customer growth, 59% System Improvement and 24% Environmental Regulation.
Costs:	\$17,248,000	\$105,642,000	\$200,147,000	
Status: Under Construction ■ Completion: On-Going				
Bi-County Service Area			Washington, DC	
Description: This project includes funding for WSSC's share of Blue Plains liquid train projects for which construction began after June 30, 1993. Major projects include the following: Improvements to Secondary Treatment; Grit Removal Systems Renovations; West Primary Tanks 1 and 2 Rehabilitation; Vehicle Maintenance Facility; Nitrification Facility, Filtration/Disinfection Facility; Raw Water Pump Stations 1 & 2; and Filtration Facility Pumping System. All facilities are sized at 370 MGD.				

S-22.07: Blue Plains WWTP: Biosolids Management, Part 2				
Project	Current Fiscal Year	Six-Year CIP	Total Project	Project supports 17% customer growth and 83% system improvement.
Costs:	\$20,885,000	\$169,587,000	\$199,842,000	
Status: Under Construction ■ Completion: On-Going				
Bi-County Service Area			Washington, DC	
Description: This project includes funding for WSSC's share of the Blue Plains Wastewater Treatment Plant biosolids handling. The project scope includes only those facilities for which construction began after June 30, 1993. Major facilities include: direct biosolids loading facility; rehabilitation of gravity thickeners; new digestion facilities - Phase I; centrifuge thickener facilities; and additional dewatering facilities. Additional sludge dewatering and solids handling elements include facilities identified in the 1996 Blue Plains Biosolids Management Study (O'Brien & Gere), the WASA Master Plan (1998), and EPMC IV Facility Plan. All facilities are sized at 370 MGD.				

S-22.08: Blue Plains WWTP: Biological Nutrient Removal				
Project	Current Fiscal Year	Six-Year CIP	Total Project	Project supports 100% environmental regulation.
Costs:	\$613,000	\$12,109,000	\$28,465,000	
Status: Under Construction ■ Completion: FY 2006				
Bi-County Service Area			Washington, DC	
Description: This project includes funding for WSSC's share of the Blue Plains biological Nitrogen Removal Pilot Project and BNR Permanent Facility design and construction. This project is stipulated in the 1995 Consent Decree signed by the District of Columbia and the United States Department of Justice.				

S-22.09: Blue Plains WWTP: Plant Wide Projects				
Project	Current Fiscal Year	Six-Year CIP	Total Project	Project supports 17% customer growth, 59% system improvement and 24% environmental regulation.
Costs:	\$27,974,000	\$61,324,000	\$97,860,000	
Status: Not Applicable ■ Completion: On-Going				
Bi-County Service Area			Washington, DC	

S-22.09: Blue Plains WWTP: Plant Wide Projects

Description: This project includes funding for WSSC's share of Blue Plains plant-wide projects for which construction began after June 30, 1993. Major Projects include the following: Process Control Computer Systems; Additional Chemical Systems and Transmission Improvements; Additional Aeration Facilities; New Electrical Substation #5; Electrical Power Systems Additions, Phases I and II, and Alternative Disinfection Facilities. All Facilities are sized at 370 MGD.

II. CITY OF ROCKVILLE CIP PROJECTS

A. Rockville Water Supply System Projects

210-850-0A30: Water Plant – Pump Upgrade

Project	Current Fiscal Year	Six-Year CIP	Total Project	
Costs:	\$250,000	\$250,000	\$1,366,485	

Status: construction ■ Completion: FY 2003

Rockville Pressure Zone Potomac - Cabin John and Rockville Planning Areas

Description: This project provides for adding two variable frequency drive (VFD) units; the replacement of all three pumps and motors; upgrading the pumping system to accommodate future maximum plant expansion; and purchasing a generator for use at the Horners Lane Pump Station in case of power failure. (The plant can meet maximum daily demand if one of the three pumps is out of service.) The VFDs increase the pumping system efficiency by decreasing electrical demand. The project also provides for a Supervisory Control and Data Acquisition (SCADA) system that will integrate monitoring remote water system facilities (including the Glen Mill Road, North Horners Lane, and Falls Grove pump stations) as well as the intake and tanks at the water filtration plant.

210-850-1A34: Water — Cathodic Protection

Project	Current Fiscal Year	Six-Year CIP	Total Project	
Costs:	\$66,000	\$66,000	\$66,000	

Status: design and construction ■ Completion: FY 2003

Rockville Pressure Zone Rockville Planning Area

Description: This project funds the design and installation of cathodic protection systems in two of the City's steel water storage tanks, Carr Avenue and Hunting Hill, to prevent corrosion.

210-850-0B30: Water Plant - Filter Upgrade

Project	Current Fiscal Year	Six-Year CIP	Total Project	
Costs:	\$000	\$000	\$226,067	

Status: FY 2002 work being completed ■ Completion: FY 2003

Rockville Pressure Zone Potomac - Cabin John Planning Area

Description: This project provides for the replacement and upgrade of the plant's filter system, evaluating and repairing the underdrain, and providing a structural cover to the filter to prevent leaf accumulation. The upgrade is required to meet recently adopted US EPA and MDE regulations for finished water quality. funds the design and construction of approximately 620 feet of 8-inch water main in Adclare Road to replace the existing 6-inch main. MDE re-evaluated the plant operations and recommended the upgrade and cover, which will also reduce the amount of sunlight, thus reducing algae growth.

210-850-0B34: North Horners Lane – Water			
Project	Current Fiscal Year	Six-Year CIP	Total Project
Costs:	\$517,000	\$517,000	\$582,000
Status: under construction ■ Completion: FY 2003			
Rockville Pressure Zone		Rockville Planning Area	
Description: This project funds the design and construction of approximately 2,310 feet of 12-inch water main in North Horners Lane, from Southlawn Lane to Westmore Avenue. This replaces existing 8-inch water main in the area to improve fire protection flows.			

210-850-0C34: Thomas Farm – Pressure Valve			
Project	Current Fiscal Year	Six-Year CIP	Total Project
Costs:	\$000	\$000	\$100,000
Status: FY 2002 work being completed ■ Completion: FY 2003			
Rockville Pressure Zone		Rockville Planning Area	
Description: This project funds the design and construction of a pressure reducing valve (PRV) and vault at the corner of Shady Grove and Darnestown Roads, replacing an existing manual valve separating the City's system from WSSC's. This PRV will provide additional water pressure to the Fallsgrove project and the northwestern part of the City's distribution system in the event of sudden water demand during a fire.			

210-850-2A34: Fallsgrove – Water Booster			
Project	Current Fiscal Year	Six-Year CIP	Total Project
Costs:	\$000	\$779,000	\$779,000
Status: concept ■ Completion: FY 2008			
Rockville Pressure Zone *		Rockville Planning Area	
* Description: This project funds a booster station to create a separate pressure zone in the northwestern part of the city's distribution system, north of Gude Drive. The pumping station will be located in the Fallsgrove community adjacent to the wastewater pumping station, north of Route 28. WSSC will continue to augment fire protection flows for this part of Rockville. This area of the city is at a relatively high elevation, creating marginal pressures in the water distribution system. The City has required the Fallsgrove developer to construct three off-site water system improvements to help strengthen the City's distribution system and provide adequate service pressure to the development and the surrounding community. However, if low pressure complaints develop in the future, a separate pressure zone, supported by a variable speed pump, may be needed to increase water pressure.			

210-850-3A34: Clean/Line Water – Phase II			
Project	Current Fiscal Year	Six-Year CIP	Total Project
Costs:	\$000	\$376,000	\$376,000
Status: construction starts in FY 2005 ■ Completion: FY 2006			
Rockville Pressure Zone		Rockville Planning Area	
Description: This project funds cleaning, lining, milling, and pavement overlay of existing water mains to improve both capacity and pressure in the water distribution system. Phase II project limits begin at Aster Boulevard and Nelson Street, runs along Nelson to Mannakee Street, continues onto Wilson Avenue to Owens Street, and stops at Carr Avenue. Additionally, the project extends another 1,000 feet north along Mannakee from Nelson.			

210-850-3B34: Water Distribution System			
Project	Current Fiscal Year	Six-Year CIP	Total Project
Costs:	\$000	\$90,000	\$90,000
Status: study ■ Completion: FY 2006			
Rockville Pressure Zone		Rockville Planning Area	
Description: This project funds the hydraulic analysis, leakage survey, and fire flow data for the City's water distribution system, as well as updating the City's water modeling software, <i>WaterCad</i> . This analysis is necessary periodically to determine the effects upon the water system created by new main installation, aging pipe, the cleaning and lining program, and development occurring throughout the City. This project determines the adequacy of the system to meet demands for fire protection and domestic use, and the scheduling of any required future improvements.			

210-850-8A34: Beall Avenue/Park Road – Water			
Project	Current Fiscal Year	Six-Year CIP	Total Project
Costs:	\$000	\$1,412,000	\$1,412,000
Status: concept ■ Completion: FY 2008			
Rockville Pressure Zone		Rockville Planning Area	
Description: This project funds the design and construction to replace 6,080 feet of existing steel water main with cement-lined ductile iron pipe from Beall Avenue and Park Road to the former Grandin Avenue tank location. This will replace the only steel water main in the city, which was installed in 1964. Steel mains are more prone to leaks, increasing the need for maintenance.			

210-850-9A34: Adclare Road – Water			
Project	Current Fiscal Year	Six-Year CIP	Total Project
Costs:	\$000	\$109,000	\$124,000
Status: completing design; construction in FY 2004 ■ Completion: FY 2004			
Rockville Pressure Zone		Rockville Planning Area	
Description: This project funds the design and construction of approximately 620 feet of 8-inch water main in Adclare Road to replace the existing 6-inch main. This will improve flows on the Roxboro and West End Communities.			

210-850-9B34: Chapman Avenue – Water			
Project	Current Fiscal Year	Six-Year CIP	Total Project
Costs:	\$50,000	\$50,000	\$386,000
Status: completing design; construction in FY 2003 ■ Completion: FY 2003			
Rockville Pressure Zone		Rockville Planning Area	
Description: This project funds the design and construction of approximately 1,710 feet of replacement 12-inch water main in Chapman Avenue to replace the existing 8-inch main. This will improve fire flow as well as the reliability of water service in this area.			

210-850-9H34: Water Pump – Glen Mill Road			
Project	Current Fiscal Year	Six-Year CIP	Total Project
Costs:	\$000	\$2,600,000	\$2,700,000
Status: construction ■ Completion: FY 2003			

210-850-9H34: Water Pump – Glen Mill Road	
Rockville Pressure Zone	Travilah Planning Area
<p>Description: This project provides for the construction of a separate water booster station along Glen Mill Road south of Boswell Lane to increase the flow of finished water into Rockville. The current plant capacity is inadequate to meet current water requirements during peak summer use, requiring the City to purchase water from WSSC to meet peak demand. The City will implement a combined approach of increasing water production and reducing demand.</p>	

B. Rockville Sewerage System Projects

220-850-0A45: Sanitary Sewer Rehabilitation			
Project	Current Fiscal Year	Six-Year CIP	Total Project
Costs:	\$60,000	\$610,000	\$895,000
Status: design and construction ongoing ■ Completion: FY 2008			
Rockville Sanitary District		Rockville Planning Area	
<p>Description: This ongoing project funds rehabilitation of existing sanitary sewer structures and mains throughout the older sections of the city, including replacement of access steps and bricks, repointing brick joints, and resealing to prevent leakage. The City has developed two levels of rehabilitation: routine maintenance and significant restoration. DPW will hire a consultant to inspect and assess manholes and mains in both Watts Branch and Rock Creek. The project schedule includes:</p> <ul style="list-style-type: none"> ■ FY 2002 work to be completed: Watts Branch and Rock Creek ■ FY 2003: Twinbrook, Lincoln Park, and Rockcrest ■ FY 2004: Calvert Street, West end, and Town Center ■ FY 2005: Montrose and Evans ■ FY 2006: Rockdale and Broadwood Manor ■ FY 2007: Roxboro and Janetta ■ FY 2008: Identify future areas 			

220-850-2A45: Rock Creek – Wastewater Facilities			
Project	Current Fiscal Year	Six-Year CIP	Total Project
Costs:	\$55,000	\$141,000	\$191,000
Status: construction ■ Completion: FY 2004			
Rock Creek Sewershed		Aspen Hill Planning Area	
<p>Description: This project funds the City's share of design and construction improvements to WSSC's existing Rock Creek storage facility, a relief sewer between Viers Mill and Randolph Roads, and a new storage facility. The WSSC Rock Creek Wastewater Facility Study recommended these projects in order to handle excess peak sewage flows that will exceed the 1985 IMA's 56.6-MGD limit at the District line, improve operations of the existing storage facility, and relieve transmission capacity constraints.</p>			

220-850-3A45: Cabin John Sewer – Phase II			
Project	Current Fiscal Year	Six-Year CIP	Total Project
Costs:	\$96,000	\$798,000	\$798,000
Status: complete design in FY 2003 ■ Completion: FY 2004			
Cabin John Creek Sewershed		Rockville Planning Area	

220-850-3A45: Cabin John Sewer – Phase II			
Description: This project funds the upgrade of the existing Cabin John Trunk Sewer to meet future capacity demand. Phase II project limits extend approximately 2,600 feet between Lynfield Drive and the terminus of Cabin John Parkway at the Hungerford SWM Pond. This project follows the City's master plan of increasing sewer capacity to accommodate expected growth.			

220-850-3B45: Cabin John Sewer – Phase III			
Project	Current Fiscal Year	Six-Year CIP	Total Project
Costs:	\$000	\$528,000	\$528,000
Status: design in FY 2004 ■ Completion: FY 2005			
Cabin John Creek Sewershed		Rockville Planning Area	
Description: This project funds the upgrade of the existing Cabin John Trunk Sewer to meet future capacity demand. Phase III project limits extend approximately 2,650 feet between Jefferson Street and Lynfield Drive at the Hungerford SWM Pond. The sewer between Fleet Street and Mount Vernon Place has been upgraded in conjunction with the Cabin John Sewer and Mounty Vernon Retrofit SWM Facility projects. This project follows the City's master plan of increasing sewer capacity to accommodate expected growth.			

220-850-3C45: Cabin John Sewer – Phase IV			
Project	Current Fiscal Year	Six-Year CIP	Total Project
Costs:	\$000	\$1,048,000	\$1,048,000
Status: design in FY 2005 ■ Completion: FY 2006			
Cabin John Creek Sewershed		Rockville Planning Area	
Description: This project funds the upgrade of the existing Cabin John Trunk Sewer to meet future capacity demand. Phase I project limits extend approximately 4,000 feet between North Washington Street and Jefferson street. This project follows the City's master plan of increasing sewer capacity to accommodate expected growth.			

220-850-3D45: Regional Treatment Facilities			
Project	Current Fiscal Year	Six-Year CIP	Total Project
Costs:	\$3,721,000	\$17,461,000	\$17,461,000
Status: ongoing design and construction ■ Completion: dependent on WASA			
City-wide service area		Washington, DC	
Description: This project funds the City's contribution to WASA projects for the expansion and upgrade of the Blue Plains WWTP, including the upgrade of treatment processes and disposal of biosolids. These projects involve: <ul style="list-style-type: none"> ■ Required sewage treatment capacity to serve the City's expansion needs through buildout, ■ Upgrades to meet more stringent US EPA imposed water quality requirements, and ■ Implementation of biosolids management facilities to provide a permanent composting program. 			

220-850-9A45: Cabin John Sewer – Phase I			
Project	Current Fiscal Year	Six-Year CIP	Total Project
Costs:	\$1,069,000	\$1,069,000	\$1,606,000
Status: complete design and construction in FY 2003 ■ Completion: FY 2003			
Cabin John Creek Sewershed		Rockville Planning Area	

220-850-9A45: Cabin John Sewer – Phase I

Description: This project funds the upgrade of the existing Cabin John Trunk Sewer to meet future capacity demand. Phase I is located within a wooded stream valley, and extends approximately 4,950 feet between the terminus of Cabin John Parkway at the Hungerford SWM Pond and Montrose Road. The project also includes a sanitary sewer upgrade for the Mount Vernon SWM Facility. This project follows the City's master plan of increasing sewer capacity to accommodate expected growth.