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**PROGRAM:** Channel Improvements and Environmental Quality

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**DEPARTMENT:** Public Works

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**PROGRAM DESCRIPTION:** Changing environmental regulations concerning the quality of storm water runoff partially led to evaluating the County's storm water needs through the development of the 1996 Storm Water Master Plan (SWMP) and the 2001 Watershed Management Plan (WMP). The SWMP, the WMP, and the State issued Municipal Separate Storm Sewer (MSA) permit identified the need for additional emphasis on improving runoff quality as part of a Countywide storm water management program.

Channel Improvements and Environmental Quality was developed to carry out the SWMP and WMP policy for preservation of all open stream channels in their natural or semi-natural state. These projects are intended to be responsive to renewed citizen interest in the aesthetic value of open streams, meet "best management practices" (BMP's) for water quality control, and maintain or reduce flood plains and floodways identified in the Federal Emergency Management Agency's Flood Insurance maps.

**FY 2003 Bond Projects:**

Structural Best Management Practices (BMPs) – These provide structures within the storm water system that provide ongoing pollutant removal including suspended solids, phosphorus, oil, and grease. These work by physical processes (typically neither chemical, mechanical, nor filtration) which require routine cleaning but which are incidental to the catch basin cleaning already being performed. This funding level will provide two to three such structures each bond year.

Stream Restoration Projects – This project restores stream channels to reduce erosion, create habitat, and enhance the appearance of streams in the County. Some projects will completely restore and stabilize stream channels of severely degraded streams while others will be small projects that will address severe but localized stream degradation. This funding will enable 100 feet of stream restoration every bond cycle.

Retrofit Beaver Dam Pond – This project will remove nutrients and suspended solids from runoff and control quantity of runoff from the Beaver Dam Pond located at I-66, Fairfax Drive, and N. Glebe Rd.

**PLANNING RELATIONSHIP:** Projects are proposed based on plans, objectives, and policies of the Storm Water Master Plan.

**CIP PROJECTS:**

PROJECT DESCRIPTION	AMOUNT (\$ in 000's)	FISCAL YEAR	FUNDING SOURCE
1. Structural BMPs	100	2003	Bond
2. Stream Restoration Projects	100	2003	Bond
3. Retrofit Beaver Dam Pond	100	2003	Bond
4. Structural BMPs	100	2005	Bond
5. Stream Restoration Projects	100	2005	Bond
6. Retrofit Beaver Dam Pond	250	2005	Bond
7. Pimmit Run BMP and Channel Restoration, and Little Falls Rd. to Old Dominion Dr.	364	2005	Bond

<b>PROJECT DESCRIPTION</b>	<b>AMOUNT</b> (\$ in 000's)	<b>FISCAL</b> <b>YEAR</b>	<b>FUNDING</b> <b>SOURCE</b>
8. Structural BMPs	200	2007	Bond
9. Stream Restoration Projects	200	2007	Bond
10. Long Branch Phase I – Troy Park	340	2007	Bond
11. Lubber Run (Washington Blvd. to 14 <sup>th</sup> St. N.)	40	2007	Bond

**PROGRAM TOTALS:**

	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>FY2007</b>	<b>FY2008</b>	<b>TOTAL</b>
Bond	300	-	814	-	780	-	1,894
PAYG	-	-	-	-	-	-	-
<i>Less Other Financing Sources</i>	-	-	-	-	-	-	-
<b>Net Tax Support</b>	300	-	814	-	780	-	1,894