

MARYLAND ENVIRONMENTAL SERVICE

SUMMARY

The Maryland Environmental Service (MES) is an independent agency of the State created to provide water supply, wastewater treatment and waste management services to State agencies, counties, municipalities, and private sector clients. Projects typically funded through the capital improvement program are designed to ensure a safe drinking water supply and to minimize the environmental impact of wastewater discharges into the community. This must be accomplished while also complying with federal and State regulations.

MES operates 194 water and wastewater treatment facilities in Maryland, of which 62 are State-owned. The remaining 132 are operated by the MES under contract with a local government or corporate owner.

The FY 2007 - FY 2011 Capital Improvement Program will provide funding to permit improvements to State-owned water and wastewater treatment facilities, water tanks, water distribution systems, and sewerage collection systems.

CHANGES TO FY 2006 - FY 2010 CAPITAL IMPROVEMENT PROGRAM

Changes to FY 2007

None

Changes to FY 2008 - FY 2010

None

MARYLAND ENVIRONMENTAL SERVICE

FY 2007 - FY 2011 Capital Improvement Program

State-Owned Facilities

MARYLAND ENVIRONMENTAL SERVICE

Budget Code: UB00

Greenbrier State Park - Water/Wastewater Infrastructure Improvements (Washington) FY 2007 Total \$780

Construct improvements to the water and wastewater infrastructure at Greenbrier State Park. Improvements include television inspection, evaluating and rehabilitating the wastewater collection system, repair and rehabilitating the water treatment system, recoating the unitary treatment tank, and repairing the post-chlorination building at Greenbrier State Park.

<u>Source</u>	<u>Prior Auth.</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>TOTAL</u>
GO Bonds	-	780	-	-	-	-	780
TOTAL	-	780	-	-	-	-	780

<u>Use</u>	<u>Prior Auth.</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>TOTAL</u>
Planning	-	89	-	-	-	-	89
Construction	-	691	-	-	-	-	691

ECI Water Treatment Plant Upgrade/Expansion (Somerset) FY 2007 Total \$563

Upgrade and expand the water treatment system at the Eastern Correctional Institution to accommodate the addition of a 140-bed minimum security compound to the prison. The upgrade will include the installation of an additional reverse osmosis system to handle the additional water demand caused by the prison expansion. In addition, a third cartridge filter will be added to assist in the removal of larger suspended solids, a new transfer pump will be installed to transfer water to the new reverse osmosis train, and a new control unit will be installed.

<u>Source</u>	<u>Prior Auth.</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>TOTAL</u>
GO Bonds	-	563	-	-	-	-	563
TOTAL	-	563	-	-	-	-	563

<u>Use</u>	<u>Prior Auth.</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>TOTAL</u>
Planning	-	63	-	-	-	-	63
Construction	-	500	-	-	-	-	500

MARYLAND ENVIRONMENTAL SERVICE

ECI - Cogeneration Facility Electrical Control and Reverse Osmosis (RO) System Upgrade (Somerset) **FY 2007 Total \$538**

Upgrade the electrical control system at the cogeneration facility at the Eastern Correctional Institution. The existing system consists of individual components that control various functions. This will be replaced with a programmable, integrated system that will monitor, synchronize, and control the various electrical functions at the cogeneration facility. In addition, this project includes the provision of a small reverse osmosis water treatment system for the boilers at the cogeneration facility.

<u>Source</u>	<u>Prior Auth.</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>TOTAL</u>
GO Bonds	-	538	-	-	-	-	538
TOTAL	-	538	-	-	-	-	538

<u>Use</u>	<u>Prior Auth.</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>TOTAL</u>
Planning	-	32	-	-	-	-	32
Construction	-	506	-	-	-	-	506

Elk Neck State Park - Wastewater Treatment Plant Upgrade (Cecil) **FY 2007 Total \$352**

Construct wastewater treatment plant improvements at Elk Neck State Park. The wastewater treatment plant at the park was issued a discharge permit by the Department of Environment to increase its discharge flows from 108,000 gallons per day to 150,000 gallons per day. In addition, the new permit requires that the wastewater treatment plant be upgraded to meet Enhanced Nutrient Removal (ENR) requirements. Specific improvements will include construction of an equalizer tank and shellfish protection tank, grit removal system screening improvements, construction of additional process tanks, and improvement of the aeration, filtration, and disinfection systems.

<u>Source</u>	<u>Prior Auth.</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>TOTAL</u>
GO Bonds	-	352	1,900	-	-	-	2,252
Non-Budgeted Funds	1,187	-	2,150	-	-	-	3,337
TOTAL	1,187	352	4,050	-	-	-	5,589

<u>Use</u>	<u>Prior Auth.</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>TOTAL</u>
Planning	190	352	-	-	-	-	542
Construction	997	-	4,050	-	-	-	5,047

Greenbrier State Park - State Water Tower Improvements (Washington) **FY 2007 Total \$279**

Construct water tower improvements at Greenbrier State Park. Improvements include cleaning, striping and recoating the water tank with non-lead based paint, rust removal, and minor structural repairs. Inspection of the water tank revealed paint deteriorating on the interior and exterior walls of the tank, resulting in extensive rusting of the steel tank.

<u>Source</u>	<u>Prior Auth.</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>TOTAL</u>
GO Bonds	-	279	-	-	-	-	279
TOTAL	-	279	-	-	-	-	279

<u>Use</u>	<u>Prior Auth.</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>TOTAL</u>
Construction	-	279	-	-	-	-	279

MARYLAND ENVIRONMENTAL SERVICE

Elk Neck State Park - State Water Tower Improvement (Cecil) FY 2007 Total \$205

Construct water tower improvements at Elk Neck State Park. Improvements include cleaning the water tower, making minor structural repairs, removal of rust, and recoating the water tank. Inspection of the tank revealed rust on the metal surfaces causing structural weakening, and failure of the interior and exterior coating system.

<u>Source</u>	<u>Prior Auth.</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>TOTAL</u>
GO Bonds	-	205	-	-	-	-	205
TOTAL	-	205	-	-	-	-	205

Use

Construction	-	205	-	-	-	-	205
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O'Farrell Youth Center - State Water Tower Improvements (Carroll) FY 2007 Total \$200

Construct water tower improvements at the O'Farrell Youth Center. Improvements include cleaning the water tower, complete minor structural repairs, rust removal, and recoating the water tank. Inspection of the tank revealed peeling paint on the interior and exterior walls of the tank, and rusting throughout the tank.

<u>Source</u>	<u>Prior Auth.</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>TOTAL</u>
GO Bonds	-	200	-	-	-	-	200
TOTAL	-	200	-	-	-	-	200

Use

Construction	-	200	-	-	-	-	200
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Unspecified Water and Wastewater Treatment Plants (Statewide)

MES is responsible for operating and managing many of the State's water and wastewater treatment plants. These plants are located at 23 state parks, 8 correctional facilities, 4 DHMH facilities, 7 juvenile services facilities, and 6 other miscellaneous facilities, throughout the state. As these projects reach the end of their useful lives, they will need to be renovated or replaced. In formulating the capital improvement program, an amount is reserved in FY 2008 through FY 2011 for these projects.

<u>Source</u>	<u>Prior Auth.</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>TOTAL</u>
GO Bonds	-	-	1,100	3,000	3,000	3,000	10,100
TOTAL	-	-	1,100	3,000	3,000	3,000	10,100

Use

Construction	-	-	1,100	3,000	3,000	3,000	10,100
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Subtotals for State-Owned Facilities

<u>Source</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>TOTAL</u>
GO Bonds	2,917	3,000	3,000	3,000	3,000	14,917
TOTAL	2,917	3,000	3,000	3,000	3,000	14,917

MARYLAND ENVIRONMENTAL SERVICE

Total Program - Maryland Environmental Service

<u>Source</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>TOTAL</u>
GO Bonds	2,917	3,000	3,000	3,000	3,000	14,917
TOTAL	2,917	3,000	3,000	3,000	3,000	14,917