

**Maryland Department of the Environment**  
**Engineering and Capital Projects Program**  
**Regional Wastewater System Project Timeline and Fact Sheet**  
(August 2015)

**1985** – Goldsboro rejected an EPA Construction Grant to provide a Cluster Mound Systems to address the failing septic systems. A sanitary survey done in September/October 1975, indicated that 25% of the ~100 homes within the planning area were failing.

**1996** – MDE issued a consent order to the Town of Goldsboro to construct a public sewer system to replace the private sewage disposal systems that are or could become prejudicial to health or the environment by discharging pollutants to the surface or ground water of this State.

**6/19/1996 – BPW Approved Supplemental Grant of \$50,000.**

**1997** – An engineering study was completed by Beavin, which reviewed information in McCrone 1985 Facilities Plan and other applicable information to provide alternatives to public sewer system for Goldsboro. In evaluating some conventional collection and treatment systems, the study lead to the conclusion that the project is economically not feasible. Even if MDE were to provide 100% grants for the capital project, O&M cost was estimated at \$1,200 per user per year. A new feasibility study was initiated to investigate the possibility of providing a regional water and wastewater system for Goldsboro, Henderson, Maryland and Templeville. The original goal of the regional approach was to increase the number of users and reduce the O&M cost per user.

**1998** – The new feasibility study was completed by GMB in July 1998. The study demonstrated that O&M cost per user can be reduced to an acceptable level by adding the other communities. However, the capital cost of \$7.5 million cannot be fully funded by state grants.

**3/28/2001 – BPW Approved Supplemental Grant of \$75,000 toward planning, design and construction of the project. The grant was not used, and was reverted in full to another project.**

**9/24/2004 – \$268,200 in EPA Special Appropriation Projects (SAP) grant was awarded to Caroline County to further evaluate the regional approach and complete 30% design. It is very likely that the grant will only cover the planning cost only as it will expire in September 2010 with no option for extension.**

**2008** – Caroline County submitted a pre-application for Northern Caroline County Sewer Project. The request was to construct a new WW system for northern section of the county to address failing septic under MDE consent order. The Applicant did not provide any costs, and no interest in loan.

## Current Project Scope

The recently completed feasibility recommends abandoning the existing Greensboro Wastewater Treatment Plant (WWTP) and constructing a new regional treatment plant in Greensboro with Enhanced Nutrient Removal (ENR) technology capable of achieving 3 mg/l total nitrogen and 0.3 mg/l total phosphorus. Also, the project will include constructing collection systems within the towns Goldsboro, Henderson, Marydel and Templeville with wastewater conveyed to the new ENR facility in Greensboro. The project will be constructed in phases with the first phase includes the new ENR facility and Goldsboro connection.

The main advantages of this option (the Regional Wastewater System/Greensboro Option) are:

- (1) The regional system can be funded in phases, which is more feasible for the funding agencies.
- (2) O&M cost may be further reduced by utilizing the existing and already staffed Greensboro system.
- (3) The project will result in large nutrient reductions assisting MDE in achieving its Watershed Implementation Plan goals in Caroline County.

The total project cost is estimated at \$25,000,000. This large project budget is being mitigated by completing the project in phases, thereby allowing the State and federal agencies to breakdown their funding over several fiscal years. The involved funding agencies are MDE, USDA Rural Development, and CDBG. The goal is to provide a joint funding package of loans and grant to maintain user rates of these communities within the acceptable rate of \$700 per home per year.

### **Phase 1 – Greensboro Regional WWTP: (Groundbreaking Event)**

The proposed project entails planning, design, and construction of a new 0.332 million gallons per day Biological Nutrient Removal and Enhanced Nutrient Removal wastewater treatment plant in the Town of Greensboro. The new plant consists of a pump station, headworks, sequencing batch reactors, denitrification filters, post aeration, ultraviolet disinfection, solids treatment, and chemical feed/storage systems. The plant will provide wastewater treatment for the towns of Greensboro and Goldsboro. Upon completion of the project, the plant will be capable of achieving effluent concentration goal of 3.0 mg/l Total Nitrogen and 0.3 mg/l Total Phosphorus resulting in a 83% reduction in nitrogen and 90% reduction in phosphorus to the Choptank River and, ultimately, to the Chesapeake Bay. This request is for construction costs.

### ***Project Funding Sources:***

Bay Restoration Fund Grant	\$2,660,819
State Biological Nutrient Removal	\$2,081,592
State Supplemental Assistance Grant	\$1,036,380
Community Development Block Grant	\$898,071
U.S. Department of Agriculture Rural Development	<u>\$2,946,993</u>
<b>TOTAL ESTIMATED PROJECT COST:</b>	<b>\$9,623,855</b>

### ***Projected Schedule:***

Construction to Start:	August 2015
Construction Completion:	January 2017

**Phase 2 – Goldsboro Collection System and Conveyance:**

The proposed project entails the planning, design and construction of a collection system, pumping station and force main to convey wastewater from the town of Goldsboro to the new Greensboro Regional Wastewater Treatment Plant.

***Estimated Project Funding Sources:***

State Supplemental Assistance Grant	\$1,500,000
U.S. Department of Agriculture Rural Development	<u>\$3,500,000</u>
TOTAL ESTIMATED PROJECT COST:	\$5,000,000

***Projected Schedule:***

Construction to Start:	November 2015
Construction Completion:	January 2017

**Future Phases:**

Projects would consist of the planning, design and construction of collection systems, pumping stations and force mains to convey wastewater from the towns of Henderson, Marydel and Templeville to Goldsboro and ultimately to the new Greensboro Regional Wastewater Treatment Plant.

***Estimated Project Funding Sources:***

State Supplemental Assistance Grant	\$TBD
Community Development Block Grant	\$TBD
U.S. Department of Agriculture Rural Development	<u>\$TBD</u>
TOTAL ESTIMATED PROJECT COST:	\$10,000,000

<b><i>Projected Schedules:</i></b>	TBD
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