

## **19.5 Maintenance**

An inspection and maintenance plan as outlined in Section 19.5 of the State BMP Manual shall be submitted and approved (including inspection schedules and guidelines) prior to plan approval. The property owner must perform the required inspection annually and the inspection report must be submitted to the Stormwater Management Division upon request.

## **SECTION 20: Proprietary Systems**

### **20.1 General Characteristics and Purpose**

The need for urban BMPs that are more efficient in pollutant removal and present less impact to development has spawned the introduction of innovative stormwater BMP technologies. These technologies usually combine the processes of settling, filtration, and various biological processes into one controlled system housed in a modular unit. By combining different processes, these BMPs can be designed to focus on removing many different type pollutants and higher concentrations of these pollutants than conventional structural BMPs.

Proprietary stormwater treatment facilities apparently possess several beneficial attributes which make these BMPs a potential viable solution for future use in this area. For example, units can be usually be placed almost anywhere on a site where it can receive concentrated flows, such as from a storm drainage structure. Also, many of the innovative proprietary BMPs are relatively safe because the stormwater is treated inside the unit, and is not open to the environment like a wet detention pond or Stormwater wetland. Another benefit is that only minimal on-site construction is necessary since the units are usually assembled before they reach the site.

### **20.2 Meeting Regulatory Requirements**

Proprietary BMPs have the potential to meet the quality control requirements for water-supply watershed protection provided their installation, operation and maintenance are closely monitored.

Proprietary systems proposed to treat runoff within the City of Greensboro water-supply watersheds must meet State requirements as listed in Chapter 20 of the State BMP Manual. This includes applying for and receiving a Preliminary Evaluation Period (PEP) permit from the Division of Water Quality. Through the PEP Program the Division of Water Quality determines the pollutant removal credit for the targeted pollutants.

Proprietary systems approved by the State for installation with the City of Greensboro must be accompanied by an operation, inspection and maintenance plan.

For proprietary systems used to meet City regulations, a 20' wide access easement will be required from the public street right-of-way to the system's DMUE. A Drainage, Maintenance and Utility Easement (DMUE) shall be placed over the system and extend 15' beyond its outer perimeter.