

Runoff, Revisited

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The Runoff Reduction Method

Kelly Collins, Center for Watershed Protection

In April 2008, CWP and the Chesapeake Stormwater Network released a technical memorandum called *The Runoff Reduction Method*. This memo uses extensive background research on BMP performance to determine the ability for the BMP to reduce the overall volume of runoff in addition to pollutant removal. The method also incorporates built-in incentives for environmental site design, such as preserving forests and reducing soil disturbance and impervious cover. Kelly Collins of CWP, one of the authors of the memo, will review its findings and discuss the underlying philosophy of using runoff reduction as the basic yardstick of stormwater management.

The 1st Impervious Cover Based TMDL in the Nation

Chet Arnold and John Rozum, UConn/CT NEMO

In April 2007, the EPA approved the first Total Maximum Daily Load (TMDL) regulation in the nation based not on a specific pollutant(s), but on impervious cover. The TMDL is for Eagleville Brook watershed, which just happens to include the entire main campus of the University of Connecticut. This alarming coincidence has set in motion a combined effort of UConn, the Town of Mansfield, and CT Department of Environmental Protection, led by the CT NEMO program. The Center for Watershed Protection and a leading private sector firm, Horsley and Witten Group, are also partners in the project. The objectives of the project are to: (1) create a specific implementation plan for how the University of Connecticut and the Town of Mansfield can address the TMDL, and; (2) in the process, document a general methodology by which other communities and entities can address impervious cover-based TMDLs. Chet Arnold will review the history and progress to date of this high-profile project.

Urban Retrofits, CWP-Style

Kelly Collins and Karen Capiella, Center for Watershed Protection

CWP has been a pioneer in devising retrofit practices and protocols for urban watersheds. This talk will give an overview of these practices as found in the 2007 CWP publication, *Urban Subwatershed Restoration Manual No. 3: Urban Stormwater Retrofit Practices*. This publication outlines the basics of retrofits, describes the 13 unique locations where they can be found, and presents rapid methods to find, design and deliver retrofits to meet a wide range of subwatershed objectives. The manual contains updated costs for retrofit practices, updated pollutant removal data for stormwater treatment options, a design point method to estimate individual retrofit removal rates, and practical tips to support the design, permitting and construction of retrofit projects. In short, the manual provides all the resources needed

to develop an effective local retrofit program. Get a guided tour from Kelly Collins and Karen Capiella of CWP.