

Construction General Permit Assistance  
Hanover County Public Works  
June 9, 2009

The following information is presented to assist with the development of a Virginia Stormwater Management Program (VSMP) Construction General Permit application, and the associated Stormwater Pollution Prevention Plan SWPPP plan as well as the termination application. The materials have been developed for those projects in Hanover County, Virginia. This document addresses how the Hanover County Stormwater Management Program relates to the VSMP Construction General Permit Application and associated documents. The following documents are provided to assist with the preparation of the required submissions:

- Maps of impaired waters and stormwater ponds
- A listings of impaired waters
- Responses to portions of the required submission documents for the above forms and applications that deal with the Hanover County Regional Stormwater Program.

**Suggestions for the Preparation of a  
VSMP Construction General Permit Application  
for Sites Located in  
Hanover County, VA**

**4VAC 50-60-1150 B5**

*5. Name of the receiving water(s) and HUC. Direct discharges to any receiving water identified as impaired on the 2008 § 305(b)/303(d) Water Quality Assessment Integrated Report or for which a TMDL WLA has been established for stormwater discharges from a construction activity shall be noted;*

Provided is a map of the Virginia's 6<sup>th</sup> order Hydraulic Units (HUCs), impaired waters, and the MS4 Boundary. Note that this map is intended to be viewed and not printed. Street names are provided on the map to help you locate your site. Note that a list of impaired waters in the County has also been provided.

[Receiving waters with HUCs and MS4 Boundary](#)  
[List of Impaired segments](#)

*6. If the discharge is through a municipal separate storm sewer system (MS4), the name of the municipal operator of the storm sewer;*

The boundary of the MS4 for Hanover County is on the above map.

**Suggestions for the Preparation of a Notice of  
Termination of VSMP Permit Coverage  
for Sites Located in  
Hanover County, VA**

**4VAC 50-60-1160 B6**

*6. Where applicable, the following information related to participation in a regional stormwater management plan:*

*a. Type of regional facility or facilities to which the site contributes;*

Sites located within the limits of the Hanover County Regional Stormwater Program contribute to the stormwater infrastructure that is included in the regional stormwater program. Sites within

the Regional Stormwater Program Boundary may choose to pay into the regional program to address stormwater management rather than constructing stormwater appurtenances onsite. Participation in the Hanover Regional Stormwater Program may become more restrictive in the future.

*b. Geographic location of any regional facility to which the site contributes (county or city and Hydrologic Unit Code);*

The geographical location of the regional facilities which encompass the Regional Stormwater Program are within the limits of the Regional Stormwater Program Area...

*c. Geographic location of the site (county or city and Hydrologic Unit Code). Latitude and longitude may additionally be included if available; and*

*d. Number of acres treated by a regional facility.*

Under the provisions of Hanover County's Stormwater Program, the regional facilities function to treat pollutants from development within the suburban service area. Hanover's regional facilities currently treat 4662 acres of drainage area and address pollutants from 1568 acres of impervious development.

### **Suggestions for the Preparation of a SWPPP Plan for Sites Located in Hanover County, VA**

#### **4VAC 50-60-1170 Section II D3c.(1)**

*"(3) Where applicable, the SWPPP shall contain additional information related to participation in a regional stormwater management plan, including:*

*a. Type of regional facility or facilities to which the site contributes;"*

If your construction site is within the stormwater program limits (suburban service area 2002) the site is eligible to participate on a voluntary basis in the County's regional stormwater program. For this portion of the SWPPP plan, we recommend that the plan include the following statement indicating that the stormwater flow from the site contributes to the suburban service area of Hanover County:

The contractor shall ensure compliance with the requirements of 4VAC50-60-1180 through 4VAC50-60-1190 of the Virginia Stormwater Management Regulations through the implementation of all erosion and sediment control and stormwater management plans outlined within the construction plans for pre and post construction measures.

The stormwater from the project will discharge through existing and improved stormwater conveyance channels in accordance with Hanover County's Drainage Design Handbook and ordinance which meet or exceed state regulatory requirements. In addition, the SWPPP and associated documents detail specific calculations for impervious surface and equivalent residential units (ERU's) for the project. These ERU's are the basis for the required post development nutrient reductions off-site of this project that are equal or equivalent to those required by this project.

The Hanover County Regional Stormwater Program consists of a series of approximately 160 separate planned stormwater facilities designed to address pollutants resulting from development activities that occur within the suburban service area to ensure post development loads do not exceed predevelopment loads. Currently the Hanover Regional Stormwater Program has constructed 22 stormwater basins treating 4798 acres. The treatments contribute to the HUC codes YO11, YO25, YO26, YO27, YO30, JL16, JL17, and JL19.

*“b. Geographic location of any regional facility to which the site contributes (county or city and Hydrologic Unit Code);”*

If the site is within the MS4 program area it contributes to the facilities that are part of the MS4 program. Note that the County, and the hydraulic unit code are required for reporting purposes. The HUC map for Hanover County can be found at the following link... [Regional Program/HUC Map](#)

*“d. Number of acres treated by a regional facility.”*

Under the provisions of Hanover County’s Stormwater Program, the regional facilities function to treat pollutants from development within the suburban service area. Hanover’s regional facilities currently treat 4662 acres of drainage area and address pollutants from 1568 acres of impervious development.

#### **4VAC 50-60-1170 Section II D6**

*“6. Total maximum daily loads. A total maximum daily load (TMDL) approved by the State Water Control Board may include a waste load allocation to the regulated construction activity that identifies the pollutant for which stormwater control measures are necessary for the surface waters to meet water quality standards. The pollutant identified in a waste load allocation as of the effective date of this permit must be specified in the SWPPP. The SWPPP shall include strategies and control measures to ensure consistency with the assumptions and requirements of the TMDL WLA that apply to the operator’s discharge. In a situation where a TMDL has specified a general waste load allocation applicable to construction stormwater discharges, but no specific requirements for construction sites have been identified in the TMDL, the operator shall consult with the state or federal TMDL authority to confirm that meeting permit requirements will be consistent with the approved TMDL. If the TMDL specifically precludes such discharges, the operator is not eligible for coverage under the general permit.”*

We recommend that the SWPPP plan include the following statement indicating although there is no specific waste load allocation for the pollutants generated onsite, the measures installed are sufficient to prevent pollutant to stormwater.

#### **Total Maximum Daily Loads (TMDL) Requirements**

There are no approved TMDLs which have a wasteload allocation for the regulated construction activities on this project.

#### **Impaired Waters**

Stormwater contributions from this site do not contribute to / or otherwise affect any waters which have been identified as impaired in the 2008 Section 305(b)/303(d) Water Quality Assessment Integrated Report.

Stormwater contributions from this project are ultimately made to \_\_\_\_\_. The nearest impaired water downstream from the site is \_\_\_\_\_ which is impaired from it’s at (location) for (impairment).

Discharges from this site will have no adverse effect on these downstream water quality impairments. Implementation of sediment control and stormwater best management practices will prevent the discharge of sediment and nutrients at levels that would adversely affect the receiving water quality and its ability to continue to meet water quality standards. Installation

and maintenance of sanitary waste facilities and adherence to good housekeeping practices on site for trash and litter collection as outlined within this plan will prevent the discharge of bacterial contaminants at levels which would exceed the receiving stream water quality standards. Similarly, the control of other potential pollution sources, such as for fuel and chemical storage outlined within this plan will prevent the discharge of these materials in quantities that may affect receiving stream water quality.