

MERIDIAN TOWNSHIP POLICY MANUAL

For

MS4 POST-CONSTRUCTION

I. PURPOSE

This policy will provide the regulatory mechanism required to implement the post-construction stormwater runoff program, in order to comply with the Township's National Discharge Elimination System (NPDES) permit, required for the Township's Municipal Separate Stormwater Sewer system (MS4) by federal and state regulations.

II. SCOPE

This policy applies to Township properties and entities, including new development and redevelopment projects on Township owned properties that disturb one or more acres of land and that will result in a discharge to the Township MS4.

III. OBJECTIVES

- (1) To minimize increased stormwater runoff rates and volumes to Township's MS4 from land development and redevelopment.
- (2) To ensure high water quality runoff at receiving Township MS4 outlets
- (3) To encourage water recharge to the extent possible
- (4) To maintain the ecological integrity of stream channels, and to minimize the negative impacts of development on downstream channel stability.
- (5) To preserve and protect water supply facilities and water resources by controlling increased flood discharges, stream erosion, and runoff pollution.
- (6) To reduce the adverse impact of changing land use on water bodies and, to that end, this policy establishes minimum standards to protect water bodies from degradation resulting from changing land use.

IV. Definitions for Purposes of This Policy

90 Percent Annual Non-Exceedance Storm- *The 90 percent non-exceedance storm is the storm where 90 percent of the runoff-producing storm rainfalls are equal to or less than the specified value. The Center for Watershed Protection recommends using a runoff threshold of 0.10 inches, because impervious areas of the watershed are assumed to generate runoff beginning at approximately 0.10 inches of rainfall.*

Discharge of Stormwater to Surface Waters- *Precipitation that does not infiltrate into the ground or evaporate due to impervious surfaces, but instead flows into drain/sewer systems which may include open ditches, detention ponds or pipe that eventually flow to a surface water and/or county drain.*

Municipal Separate Storm Sewer System (MS4)- *A system of drainage (including roads, storms drains, pipes, and ditches, etc.) that is not a combined sewer or part of a sewage treatment system.*

Post Construction Best Management Practices- *Permeant storm water management practices and site design features which store, treat, infiltrate or reduce the volume of runoff from development sites.*

Post Construction Stormwater Runoff Control- *The mitigation of stormwater impacts from new or redevelopments through the use of practices used to treat, store, and infiltrate runoff onsite before it can affect water bodies downstream.*

Pre-development- *The last land use prior to the planned new development or redevelopment.*

V. POLICY

The Township shall comply with its NPDES Permit requirement for Discharge of Stormwater to Surface Waters from the Township MS4. This includes, at a minimum, provide for the following.

- A. Water quality shall be obtained by providing a minimum treatment equivalent to the first one inch of runoff from the entire site, **or** the runoff volume generated from the 90 percent annual non-exceedance storm. Those Best Management Practices (BMPs) used to provide the minimum treatment shall be designed on a site-specific basis to reduce post development total suspended solids loadings by 80 percent or achieve a total suspended solids discharge concentration of 80mg/L or less.
- B. The following volume/channel protection criteria shall be met: no net increase in offsite runoff volume and rate for storm events up to the two-year, 24-hour event from that of predevelopment conditions.
- C. For all Township owned properties, the Township, or its designee shall operate and maintain all post-construction BMPs in perpetuity.