



SMALL PROJECT STORMWATER MANAGEMENT CONTROL GUIDANCE



**For full details, instructions, and worksheets
go to:**

www.Warwick-bucks.org/Permits

Why do we need to do this?

This handout details a brief explanation of some of the methods available to property owners to control their increased runoff.

Increases in impervious surface (an area that does not infiltrate into the ground, such as roof area, driveways, patios or pools) create additional stormwater runoff.

This runoff collects fertilizers, dirt and debris, pesticides, oil, grease, and many other pollutants that are discharged into out lakes, streams and rivers. This untreated discharge is detrimental to our water quality and environment.

Federal and state regulations require Warwick Township to implement a program of stormwater controls. The implementation of stormwater controls and water quality measures is necessary to maintain compliance with the NPDES Permit that Warwick Township must obtain.

To minimize the adverse effects of the increase in impervious surface, the first 2 inches of rain must be controlled as part of statewide requirements. This can be done through Best Management Practices (BMPs).

WARWICK TOWNSHIP

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Phone: 215-343-6100
Questions? Email Kyle Seckinger, Dir. Of
Planning and Zoning at :
kseckinger@warwick-township.org

Maintenance Responsibilities

The owner of stormwater management facilities shall be responsible for their proper maintenance during and after development.

No person shall modify, remove, fill, landscape, or alter any Stormwater Management (SWM) Best Management Practices (BMPs), facilities, areas, or structures unless it is part of an approved maintenance program. Written approval from the Township is required to make any alterations.

No person shall place any structure, fill, landscaping, or vegetation into a stormwater facility, BMP, or within a drainage easement. This is imperative because any obstructions could limit or alter the functionality of the stormwater facility or BMP. Written approval from the Township is required to make any alterations.

BMP Options and Recommended Sizing

New Impervious Area (SF)	Volume Required (CF)	Trees Required		Rain Garden Size*	Infiltration Trench Size** (length, in FT)
		Deciduous	Evergreen		
50	8	1	1	17	2
100	17	3	2	33	5
250	42	7	4	83	12
500	83	14	8	167	23
750	125	21	13	250	35
1000	167	28	17	333	46

6 cubic ft per deciduous tree

10 cubic ft per evergreen tree

*Rain Garden Size is the Surface Area required
Design assumes 6" of water depth
It is made up of a mixture of soil and compost

**Infiltration Trench assumes 3 ft. depth, 3 ft. width, 40% void ratio for stone