



**WARWICK TOWNSHIP**

Dept. of Planning & Zoning  
1733 Township Greene, Jamison, PA 18929  
Phone: (215) 343-6100  
[www.warwick-bucks.org](http://www.warwick-bucks.org)

For Warwick Township Use Only

Check #:  
Check Amount:  
Received by:

**EARTH DISTURBANCE, GRADING AND  
IMPERVIOUS COVERAGE PERMIT APPLICATION**

Permit #: \_\_\_\_\_

**Site/Contact Information**

Site Address: _____			Primary Contact Person (check)
Property Owner	Name	PA Contractor's #	
	Address		<input type="checkbox"/>
	Phone	Email	
Applicant	Name	PA Contractor's #	
	Address		<input type="checkbox"/>
	Phone	Email	

The undersigned certifies that the project will be consistent with the requirements of the Warwick Township Stormwater Management Ordinance, and that the information provided is true and correct. By signing this application, the applicant is certifying that he/she is empowered by the owner of the property to make an application on his/her behalf. I/we grant permission to any municipal representative of Warwick Township to access the above property as stated within this application at any time, without an administrative warrant, to inspect and verify that any proposed use and/or structure contained within this application and/or that exists on the above property complies with all Warwick Township Ordinances.

Print Name of Applicant: \_\_\_\_\_ Date: \_\_\_\_\_

Signature of Applicant: \_\_\_\_\_ Date: \_\_\_\_\_

<p><b>Check the line below indicating that the following has been submitted:</b></p> <p>___ Three (3) copies of site plan (signed &amp; sealed by a design professional)</p> <p>___ \$50.00 permit deposit (payable to Warwick Township)</p>
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1. Is the proposed activity part of a subdivision or land development? Yes \_\_\_ No \_\_\_

(If more than 5,000 sf of impervious surface is proposed, a land development plan application is likely to be required. The applicant should confirm this with the Township. Submission fees, plan requirements, etc. shall be as outlined by the Township for Subdivision and Land Development plans.)

2. General description of proposed Improvements:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

3. Type of earth disturbance or development proposed:

- A. Grading/Earth Disturbance/Drainage \_\_\_\_\_
- B. Addition of impervious surface and/or building/structure \_\_\_\_\_

4. Proposed area of earth disturbance:

- 0 – 1000 sf. \_\_\_\_\_
- 1001 – 5000 sf. \_\_\_\_\_
- Greater than 5000 sf. \_\_\_\_\_

5. Proposed impervious surface coverage:

- 0 – 1000 sf. \_\_\_\_\_ (increases < 1,000 sf. of impervious surface do not require a permit)
- 1001 – 5000 sf. \_\_\_\_\_
- Greater than 5000 sf. \_\_\_\_\_

6. Area of proposed and existing impervious area on the entire tract.

- a. Existing (to remain) \_\_\_\_\_ S.F. \_\_\_\_\_ % of Property
- b. Proposed \_\_\_\_\_ S.F. \_\_\_\_\_ % of Property
- c. Total (after development) \_\_\_\_\_ S.F. \_\_\_\_\_ % of Property

7. Proposed stormwater volume control(s):

(Project can include more than one)

- Rain Garden \_\_\_\_\_
- Infiltration Trench \_\_\_\_\_
- Dry Well \_\_\_\_\_
- Vegetated Filter Strip \_\_\_\_\_
- Disconnected Roof Drain \_\_\_\_\_
- Other Non-structural BMP \_\_\_\_\_
- Other (describe) \_\_\_\_\_

Do the proposed stormwater volume control measures meet the requirements/guidelines of the Stormwater Management Ordinance? Yes \_\_\_ No \_\_\_

Are supporting calculations attached? Yes \_\_\_ No \_\_\_ N/A \_\_\_

Is a recommended maintenance program attached? Yes \_\_\_ No \_\_\_

8. Erosion and Sediment Pollution Control (E&S):

- a. Have erosion control measures been shown on the plan? Yes \_\_\_ No \_\_\_
- b. Is a construction schedule or staging attached? Yes \_\_\_ No \_\_\_
- c. Total area of earth disturbance \_\_\_\_\_ S.F.

If the total earth disturbance proposed exceeds 1,000 sf., have the stormwater management and E&S plan, supporting documentation and narrative been submitted to the Bucks County Conservation District? Yes \_\_\_ No \_\_\_

Applicants are reminded that all Earth Disturbance activities are subject to the requirements of PA Code Title 25, Chapter 102.

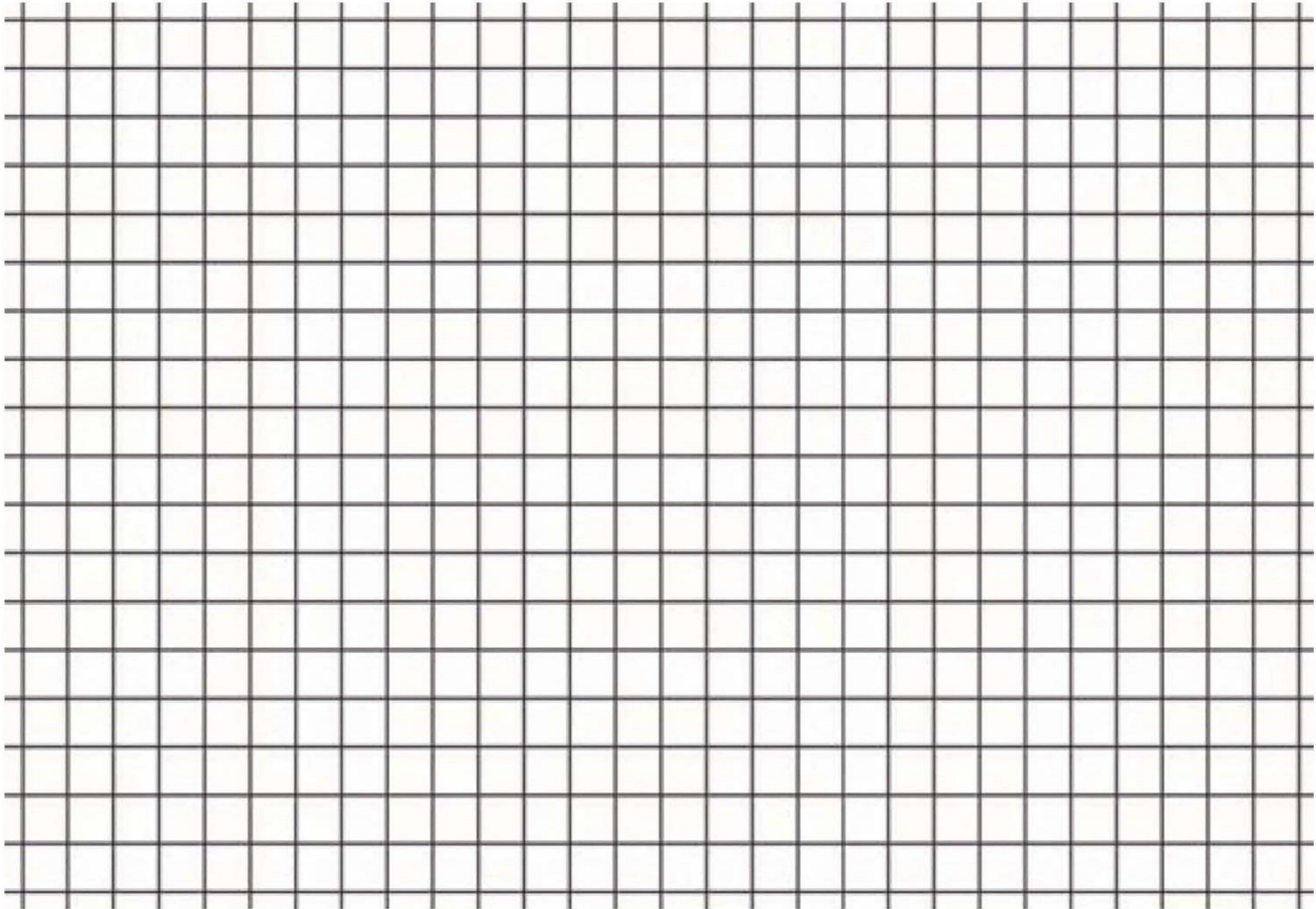
**SITE INFORMATION**

Water Service:       Public       Private

Sewer Service:       Public       Private

**SITE PLAN**

Use the grid below only if the property does NOT have an as-built plan. As-built plans can be requested from the township administrative offices, if available.



**Plot Plan Requirements**

All of the following must be clearly illustrated and identified on the site plan:

1. Show proposed structure(s) with setback distances to property lines (Front, Sides, and Rear)
2. Show all existing structures, including house driveways, walkways, patios, decks, sheds, pools, hot tubs, garages, etc.
3. Show buffer yards, easements, and deed restricted open space
4. Identify all streets with property frontage  
Note: Corner properties have two front yards
5. Show existing woods and proposed extent of clearing
6. Show locations of septic systems, wells and stormwater management facilities
7. Show erosion and sediment control measures

**To be filled in by Township Staff**

*Permit Submission Checklist*

Permit Deposit. Amount: \$ \_\_\_\_\_  Yes  No  
 3 copies of plot plan showing:  Yes  No  
     a. existing and proposed construction  Yes  No  
     b. erosion and sediment control measures  Yes  No  
 Is the Impervious Calculations completed?  Yes  No  
 Is the application signed?  Yes  No  
 TMP #:            51— \_\_\_\_\_ — \_\_\_\_\_

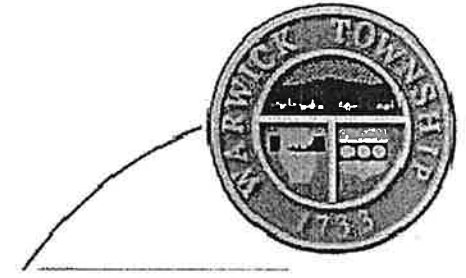
Is the property in any of the Floodplain Districts?  YES  NO  
 Are there any variances, easements or DROS which will affect this permit?  YES  NO  
 Is earth disturbance one acre (43,560 sq ft) or greater?  YES  NO  
*\*If yes notify BCCD within 5 days of receiving application.*  
 Bucks County Conservation District notified \_\_\_\_/\_\_\_\_/\_\_\_\_\_

Reviewers	Signature	Date	Status	
Zoning Officer			<input type="checkbox"/> Approved	<input type="checkbox"/> Denied
Public Works			<input type="checkbox"/> Approved	<input type="checkbox"/> Denied
Engineer			<input type="checkbox"/> Approved	<input type="checkbox"/> Denied
Conservation District			<input type="checkbox"/> Approved	<input type="checkbox"/> Denied
Other			<input type="checkbox"/> Approved	<input type="checkbox"/> Denied

Reason for denial: \_\_\_\_\_

**Fees**

Zoning	\$ _____	Other	\$ _____
Public Works	\$ _____		
Engineer review	\$ _____	TOTAL	\$ _____



# **SMALL PROJECT STORMWATER MANAGEMENT CONTROL GUIDANCE**



**For full details, instructions, and worksheets  
go to:  
[www.Warwick-bucks.org/Permits](http://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](mailto: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

### Trees Required

New Impervious Area (SF)	Volume Required (CF)	Deciduous	Evergreen	Rain Garden Size*	Infiltration Trench Size** (length, in FT)
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

# Don't Let Storm Water Run Off With Your Time and Money!

## What the Construction Industry Should Know About Storm Water In Our Community

The construction industry plays an important role in improving our community's quality of life by not only providing new development, but also protecting our streams and rivers through smart business practices that prevent pollution from leaving construction sites.

Storm water runoff leaving construction sites can carry pollutants such as dirt, construction debris, oil, and paint off-site and into storm drains. In our community, storm drains carry storm water runoff directly to local creeks, streams, and rivers with no treatment. Developers, contractors, and homebuilders can help to prevent storm water pollution by taking the following steps:

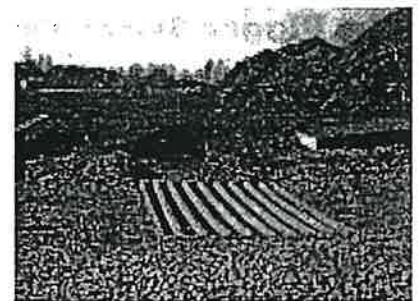
1. Comply with storm water permit requirements.
2. Practice erosion control and pollution prevention practices to keep construction sites "clean."
3. Conduct advanced planning and training to ensure proper implementation on-site.

The remainder of this fact sheet addresses these three steps.

### Storm Water Permit Requirements for Construction Activity

Planning and permitting requirements exist for construction activities. These requirements are intended to minimize storm water pollutants leaving construction sites.

- Pennsylvania's Erosion and Sediment Pollution Control Program (25 Pa. Code, Chapter 102) requires Erosion and Sediment Control Plans for all earth disturbing activities.
- The National Pollutant Discharge Elimination System (NPDES) Permit Program (25 Pa. Code, Chapter 92) requires that construction activities disturbing greater than one acre submit a Notice of Intent for coverage under a general NPDES permit.



Knowing your requirements before starting a project and following them during construction can save you time and money, and demonstrate that you are a partner in improving our community's quality of life. For more information about these programs, contact your local county conservation district office or the Department of Environmental Protection.

### Erosion Control Practices:

- Perimeter controls (e.g. silt fence)
- Sediment traps
- Immediate revegetation
- Phased, minimized grading
- Construction entrance
- Protection of streams and drainage ways
- Inlet protection



### An Ounce of Prevention

Rain that falls onto construction sites is likely to carry away soil particles and other toxic chemicals present on construction sites (oil, grease, hazardous wastes, fuel). Storm water, if not properly managed, carries these pollutants to streams, rivers, and lakes. Erosion and sediment control practices can serve as a first line of defense,

## **Pollution Prevention Practices:**

- Designated fueling and vehicle maintenance area away from streams.
- Remove trash and litter.
- Clean up leaks immediately.
- Never wash down dirty pavement.
- Place dumpsters under cover.
- Dispose of all wastes properly.

minimizing clean up and maintenance costs, and the impacts to water resources caused by soil erosion during active construction. Erosion controls can reduce the volume of soil going into a sediment control device, such as a sediment trap, therefore, "clean out" frequencies are lower and maintenance costs are less. When possible, divert water around the construction site using berms or drainage ditches.

In addition, use pollution prevention and "good housekeeping measures" to reduce the pollution leaving construction sites as well. This can be as simple as minimizing the pollution source's contact with rainwater by covering it, maintaining a "clean site" by reducing trash and waste, and keeping vehicles well maintained.

## **The Best Laid Plans**

Plans such as erosion and sediment control plans and storm water pollution prevention plans are important tools for outlining the erosion control and pollution prevention practices that you will use to manage storm water runoff prior to breaking ground. Developing good plans allows for proper budgeting and planning for the life of the project. Proper installation and maintenance of erosion and storm water controls is essential to a plan that works. Training for on-site staff helps to ensure the proper installation and maintenance of erosion controls and pollution prevention practices. Inspect controls and management techniques regularly to ensure they are working, especially after storm events. If polluted storm water is leaving the site, you may need to repair or add additional storm water controls.



## **The Bigger Storm Water Picture**

Your community is preventing storm water pollution through a comprehensive storm water management program. This program addresses storm water pollution from construction, but it also deals with new development, illegal dumping to the storm sewer system, and municipal operations. It will also continue to educate the community and get everyone involved in making sure the only thing that storm water contributes to our streams is . . . water! Contact your community or the Pennsylvania Department of Environmental Protection for more information about storm water management.

### **For more information:**

Pennsylvania Association of Conservation District's:  
<http://www.pacd.org/default.html>

Pennsylvania Handbook of Best Management Practices for Developing Areas:  
[http://www.pacd.org/products/bmp/bmp\\_handbook.html](http://www.pacd.org/products/bmp/bmp_handbook.html)

Storm Water Manager's Resource Center:  
<http://www.stormwatercenter.net>

Pennsylvania Department of Environmental Protection:  
<http://www.dep.state.pa.us>

