

Warren County Small Project Stormwater Management Application

Per Conewango Township's Act 167 Stormwater Management Ordinance, a stormwater management plan is required whenever more than 2,500 square feet of impervious surface is proposed. Impervious surfaces are areas that prevent the infiltration of water into the ground and shall include, but not be limited to, roofs, patios, garages, storage sheds and similar structures, and any new streets or sidewalks.

Surface Type	Length (ft)	x	Width (ff)	=	Proposed Impervious Area
Building		Х		=	
(leading to a downspout)		X		=	
40111111111111		X		=	
		X		=	
Driveway		X			
		X		=	
		X		=	
Parking Areas		X		= _	
		X		=	
		X		=	
Patios/Walks		X	ago garageo, que que com como mon por un mante en como mante en alternativo del contrato del con	=	
		X	and the substance age to a contract of the substance of the substance of the substance of the substance of the		
		X		_ =	
		X		=	
Other		X			
		X			
		X		=	

If the Total Impervious Surface Area is LESS THAN 2,500 Square Feet, read, acknowledge and sign below.
If the Total Impervious Surface Area EXCEEDS 2,500 Square Feet, complete the remainder of the Application.

Based Upon the information you have provided a **Stormwater Management Plan IS NOT required** for this regulated activity.

Property Owner Acknowledges that submission of inaccurate information may result in a stop work order or permit revocation. Acknowledgement of such is by signature below. I declare that I am the owner or owner's legal representative. I further acknowledge that the information provided is accurate and employees of Conewango Township are granted access to the above described property for review and inspection as may be required.

Owner	Date:



CREDITS

Credit 1: DISCONNECTION OF IMPERVIOUS AREA

When runoff from impervious areas is directed to a pervious area that allows for infiltration, filtration, and increased time of concentration, all or parts of the impervious areas may qualify as Disconnected Impervious Area (DIA). Using the criteria below, determine the portion of the impervious area that can be excluded from the calculation of total impervious area.

Criteria: An impervious area is considered to be completely or partially disconnected if it meets the requirements listed below

- rooftop area draining to a downspout is ≤500 sf
- paved area draining to a discharge is ≤1,000 sf
- flow path of paved impervious area is not more than 75'
- soil at discharge is not designated as hydrologic soil group "D"
- flow path at discharge area has a positive slope of ≤5%
- gravel strip or other spreading device is required at paved discharges.

Length of Pervious Flow Path from discharge point *	DIA Credit Factor			
0 – 14	1.0			
15 – 29	0.8			
30 – 44	0.6			
45 – 59	0.4			
60 – 74	0.2			
75 or more	0			

^{*} Flow path cannot include impervious surfaces and must be at least 15 feet from any impervious surfaces.

Calculate DIA Credit & Required Capture Volume									
Surface Type	Proposed Impervious Area (from previous sheet)	X	DIA Credit Factor	=	Impervious Area to be managed	÷		=	Required Capture Volume (ft³)
Building		Х		=		÷	6	=	
(area per downspout)		Χ		=		÷	6	=	
		Χ		=		÷	6	=	
	1	Х		=		÷	6	=	
Driveway		Х		=		÷	6	=	
		Χ		=		÷	6	=	
		Х		=		÷	6	_	
Parking Areas		Х		=		÷	6	=	
		Χ		=		÷	6	=	
		Х		=		÷	6	=	
Patios/Walks		Х		=		÷	6	=	
		Х		=		÷	6	=	
		Х		=		÷	6	=	
		Χ		=		÷	6	=	
Other		Х		=		÷	6	=	
		Х		=		÷	6	=	
		X		=		÷	6	=	

Total Req'd Capture Volume

3

Credit 2: TREE PLANTING

Perhaps the best BMP is a tree as they intercept rainfall, increase evapotranspiration and increase time of concentration. A portion of the required capture volume can be reduced provided the criteria are met.

CREDITS

Deciduous Trees	Evergreen Trees			
6 ft³ per tree planted	10 ft³ per tree planted			

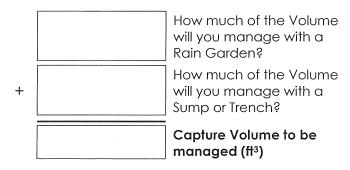
Criteria

To receive credit for planting trees, the following must be met:

- Trees must be native species (see below), minimum 1" caliper tree and 3 feet tall shrub (min).
- Trees shall be adequately protected during construction.
- Trees shall be maintained until redevelopment occurs.
- No more than 25% of the required capture volume can be mitigated through the use of trees.
- Dead trees shall be replaced within 12 months.
- Non-native species are not applicable.

	Req'd Capture Volume (ft³)
	Tree Planting Credit (ft³)
	Capture Volume to be managed (ft³)

Sizing of BMP



Enter the volumes into the Small Project SWM Plan Worksheet on the next sheet.

Native Species Trees (Common Name)

- Blackgum
- Cucumber magnolia
- Hophornbeam
- Maple, (sugar, red or silver)
- Pine, (pitch or eastern white)
- Ironwood
- Hickory, sweet pignut or shag-bark
- Sycamore, American
- Cotton-wood, eastern
- Aspen, big-tooth or quaking
- Cherry, black

- Oak, (white, swamp white, scarlet, pin, red, black)
- Dogwood (silky or red osier)
- Tuliptree
- Willow, black
- Chokeberry (red or black)
- Basswood, American
- Serviceberry, (downy or shadbush)
- Elderberry
- Witch hazel
- Mountain laurel



Small Project SWM Plan Worksheet

Based upon the information you have provided a **Stormwater Plan IS Required** for this development activity. The Stormwater Management Ordinance developed through the Warren County Act 167 Stormwater Management Plan regulates compliance requirements for Stormwater Management in this jurisdiction. A complete copy of the Plan can be found on the Warren County Planning & Zoning office.

Regulated activities shall be conducted only after Conewango Township approves a stormwater management plan. The Warren County Act 167 Stormwater Management Plan will assist you in preparing the necessary information and plans for Conewango Township to review and approve. This document will constitute an approved plan if all of the relevant details are to be installed in their entirety AND no part of the stormwater system adversely affects any other property, nor adversely affect any septic systems or drinking water wells on this, or any other, parcel. If an alternative system is to be used a plan will need to be submitted to Conewango Township for approval. A design by a qualified professional may be required for more complex sites.

PLEASE	INITIAL BELOW TO INDI	CATE THE STORMWATER MANA	AGE.	MENT PLAN FO	OR THIS SITE		
	Minimum Control #1 Erosion & Sediment Pollution Control (Elements 1-10) Minimum Control #2: Source Control of Pollution Minimum Control #3: Preservation of Natural Drainage Systems and Outfalls						
	entirety AND the system	m Warren County Act 167 Stormy n will be located as not to advers on this, or any other, parcel.	vate ely c	er Managemen affect other pro	t Plan will be installed in their perty, nor any septic systems		
	To meet this requireme	nt, the following will be installed	and	l maintained:			
	Capture Volume to be	managed (ff³)		Conversion	Surface Area of BMPs (ft²)		
		By Rain Garden 6" ponding; 2' soil depth	х	1.20			
		Dry Well or Infiltration Trench 2½' aggregate depth	х	1.25			
		Total		Total			
In lieu of meeting the above, an alternative and/or professional design is attached for approval AND the system will be located as not to adversely affect other property, any septic systems or drinking water wells on this, or any other, parcel. Site Sketch Plan showing: Proposed lines with dimensions Proposed buildings with dimensions Proposed well site, if applicable Proposed impervious surfaces with dimensions Proposed stormwater management system(s)							
	Operation and Mainten	,	pose	a sionniwaler me	anagement system(s)		
Conditio inspection	on on approval - The storm on of the building or zoni	nwater management plan must ng permit.	be f	fully implement	ed prior to a request for final		
■ 10 ■ Th	declare that I am the ow he information provided i further acknowledge th			-	s to the above described		
		Owr	ner	Date:			



Certification of Storm-Water Run Off Plan

The owner(s) of the property identified below hereby makes application to the Municipality for certification of their proposed storm-water run off plan.

Property Owner's Nam	e:	
Mailing Address:		
Telephone Number:		
Township:	Tax Par	cel Number:
Property Location (road	d name):	
•		Multiple Family Residence
Recreational Cabin	Single Wide MH	Double Wide MH
Commercial	Industrial	Public
Church/School	Other Use	
Anticipated Amount of	Disturbance:	
Name of Installation Co	ntractor:	
Address of Contractor:		
· .	Municipal Us	e Only
The storm-water plan sub reviewed and certified as ordinance.	mitted by the above named or meeting all requirements of the	wner of the property listed has been he municipal storm-water run off
Printed Name of Municip	al Representative	
Signature		Date of Approval