

EXAMPLE SWM PLAN



Standard Stormwater Management Plan Application Form

Building Permit # _____

Queen Anne's County
Department of Public Works
312 Safety Drive
Centreville, MD 21617
Queen Anne's County, Maryland

OWNER/DEVELOPER INFORMATION

Last Name First Name MI Daytime Phone # e-mail Address

Present Address City State Zip

PROJECT INFORMATION

Project Address City Zip

Subdivision Name Tax Map Parcel Lot

Preparer's Name (if different from above) Preparer's Company Phone # e-mail Address

CONSTRUCTION INFORMATION

(List all applicable areas in square feet)

Lot Area	<u>13,450</u>	(Multiply acres by 43,560 to convert to square feet)
Total Disturbed Area	_____	(Excluding the septic system)
House Roof Area:	<u>1,216</u>	
Detached Garage:	<u>352</u>	
Detached Sheds:	<u>144</u>	(List the total roof area, including overhang of all accessory structures)
Driveway Area:	<u>910</u>	(Consider using wheel tracks for long straight sections of driveways.)
Sidewalk, internal walks:	<u>122</u>	
Uncovered Porches:	<u>48</u>	
Patios, Decks:	<u>220</u>	
Other (Pool, gazebo, etc.):	_____	
Total Impervious Area:	<u>3,012</u>	

ESD PRACTICE TABULATION:

Check if used	Symbol on Site Plan	Description of Area to be Treated	Imperv. Area to be Treated	Size /Area of Practice
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Rooftop Disconnect

<input checked="" type="checkbox"/>	RD-1	<u>1/2 OF GARAGE</u>	<u>176</u>	<u>60'</u>
<input checked="" type="checkbox"/>	RD-2	<u>HOUSE (USING POP-UP EMITTER)</u>	<u>264</u>	<u>60'</u>
<input checked="" type="checkbox"/>	RD-3	<u>HOUSE</u>	<u>264</u>	<u>60'</u>

Non-Rooftop Disconnect

<input checked="" type="checkbox"/>	ND-1	<u>PORTION OF DRIVEWAY</u>	<u>270</u>	<u>12'</u>
<input checked="" type="checkbox"/>	ND-2	<u>LEAD WALK & FRONT PORCH</u>	<u>170</u>	<u>10'</u>

Note: a Maintenance and Inspection Agreement is required for any practice below:

Permeable Pavers

<input checked="" type="checkbox"/>	PP-220	<u>PATIO</u>	<u>220</u>	<u>220</u>
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Drywell

<input type="checkbox"/>	DW-	_____	_____	_____
<input type="checkbox"/>	DW-	_____	_____	_____

Rain Garden

<input checked="" type="checkbox"/>	RG-500	<u>PORTION OF HOUSE</u>	<u>400</u>	<u>14'x6'</u>
<input type="checkbox"/>	RG-	_____	_____	_____

Wet Soil Rain Garden

<input type="checkbox"/>	WSR-	_____	_____	_____
<input type="checkbox"/>	WSR-	_____	_____	_____

Bio-Swale

<input checked="" type="checkbox"/>	BS-1000	<u>PORTION OF DRIVEWAY, 1/2 GARAGE</u>	<u>816</u>	<u>50'x2'</u>
<input type="checkbox"/>	BS-	_____	_____	_____

Check if used	Symbol on Site Plan	Description of Area to be Treated	Imperv. Area to be Treated	Size /Area of Practice
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Flow-Through Planter

<input checked="" type="checkbox"/>	FTP-500	PORTION OF HOUSE ROOF	288	7'x3'
<input type="checkbox"/>	FTP-			

List additional ESD Practices Here:

ND-3	FRONT OF SHED ROOF	44	10'
ND-4	REAR OF SHED ROOF	100	10'

Total Impervious Area to be Treated* 3,012

* This should equal the "Total Impervious Area" listed in the construction information section

LIMITATIONS

1. The project is a single lot, not within a developing subdivision, and there is no contiguous land undergoing development by the same owner, builder, or developer;
2. The lot size must be 5,000 square feet or greater;
3. Total land area disturbed during construction shall be less than 30,000 square feet not including the septic reserve area (note that no impervious surfaces are allowed within the septic reserve area);
4. There are no steep slopes (steeper than 5:1 or 20%) within the Limit of Disturbance ;
5. The Standard Plan shall not be used in areas of special concern (e.g. sinkhole activity, sensitive stream system etc.) or if site conditions such as slope, soil type, high groundwater, etc. present a challenge; and
6. The stormwater plan may utilize disconnection credits, permeable pavers, rain gardens, wet soil rain gardens, drywells, or flow-through planters. Any practice not described in the Standard Plan may require submittal of a detailed stormwater plan prepared a licensed professional engineer or a licensed professional land surveyor or a licensed landscape architect in Maryland.

CONDITIONS

The following conditions for design and construction shall be met and maintained:

1. All stormwater management systems shall be designed by integrating site design, natural hydrology, and smaller practices to capture and treat runoff onsite.
 2. All Environmental Site Design (ESD) practices shall be designed and located to prevent basement seepage, flooding, soil erosion, and to minimize point source discharges.
 3. To the extent practical, all site impervious areas shall drain and discharge through vegetation in a non-erosive manner.
 4. All access roads and/or driveways constructed shall use open sections in lieu of curb and gutter;
 5. Design constraints specific to each ESD practice as specified in the Single Lot Residential Details must be addressed; and
 6. The total impervious area draining to any ESD practice shall conform to the specifications listed in the Single Lot Residential Details.
- B. A site plan must be included with this application that includes the following information:
1. Dimensions of property lines and road frontage, plus total lot area;
 2. Locations and dimensions of all existing and proposed structures (e.g. house, garage, driveway, well and septic system);
 3. Limits of disturbance;
 4. The location of all disconnected downspouts, impervious areas, and ESD practices;
 5. Slope arrows indicating the direction of grading; and
 6. Where special circumstances exist, Queen Anne's County may require a detailed plan with contours and spot grades which demonstrates proposed grading and drainage features.