

CHEMUNG COUNTY SWCD



District Manager-Mark Watts
District Technician –Mark Richer
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Stormwater Program



A How-To Guide for Rain Gardens



Stormwater Runoff from home construction site.

What is Stormwater Runoff?

Stormwater is a term that is used to describe the water that does not soak into the ground after a rainfall or a snowmelt. It is water that flows over the hard surfaces (roads, lawns, rooftops, etc) and eventually makes its way to our local waterways. Along the way stormwater collects many pollutants such as litter, pet waste, fertilizers, pesticides, oils and other pollutants which can harm water quality and aquatic life.



What is a Rain Garden?

A rain garden is a shallow dish-like depression in the ground that is planted with native plants and flowers. In addition to looking nice, the purpose of the rain garden is to soak up stormwater and infiltrate it into the ground. However, rain gardens also provide many other benefits as well....

- Protect rivers and streams
- Reduce the potential for home flooding
- Creates habitat for birds and butterflies
- Reduce mosquito breeding by removing standing water



Constructing a rain garden helps improve water quality while creating a beautiful natural area.

Mattison Project County Route 64







Town of Erin Park Hill



Veteran Berm Project



- Notes**
1. Proposed Compacted Earth Diversion Berm
 2. Rock Revetment along Stream Bank
 3. Constructed Overflow from Panther Lick
 4. Remove Portion of Existing Berm to Create Conveyance between the Proposed Compacted Earth Diversion Berm and Panther Lick.

Top of Bank Elevations & Approx. Bank Height			
Cross Section	Top of Bank Elevation	Ground Elevation	Bank Height (ft)
14+00	800	Blended to grade	Blended to grade
14+00	809	804	5
13+00	806	802	4
12+00	803	800	4
11+00	802	800	4
10+00	800	800	4

The goal of this project is to help reduce flooding conditions for portions of the Clear Street area. Furthermore, this project would offer riparian protection for a portion of the adjacent Catherine Valley Trail. To accomplish this goal, a compacted earth berm would be installed away from the stream to replace the existing gravel berm along the stream. As such, a section of Panther Lick, downstream of the Clear Street bridge, would be reconstructed to its adjacent floodplain. The implementation of these conceptual improvements would provide for a degree of riparian protection, but would not eliminate the potential of flooding and drainage problems.



EXHIBIT #9: SITE IMPROVEMENT PLAN
Compacted Earth Diversion Berm Project
Town of Veteran, Chenango County, New York







Seeley Creek EWP Project







Dave Derrick Stream Project







Dave Derrick Stream Project Cost Breakdown

Chemung County	\$10,000.00
Chemung Co. SWCD	\$10,000.00
Village of HHDS	\$10,000.00
Town of HHDS	<u>\$10,000.00</u>
Total Cash	\$40,000.00

In-kind from: Steuben Co. SWCD, USC, Town of Horseheads, Village of Horseheads, PMC & GST BOCES





Corsaro Wetland













Emergency Stream Intervention Training



Dave Derrick –Three Day Stream Training



Ag Plastic Baler









