Municipal Green Infrastructure Projects—Changing minds one at a time

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Lake George Watershed – 233 sq. miles (149,120 acres)
26 miles in length, 3 miles wide at its maximum
15 municipalities (3 counties, 1 village, 12 towns)...plus NYS lands
9,500 permanent residents to 36,000 in summer (270% increase)
Year round housing has increased from 2,800 in 1970 to 5,000 in 2010
Nearly 400 miles of roads in watershed
Importance of Stormwater Management for Lake George

- Lake George – AA-Special waterbody (NYSDEC)
- Best intended use – unfiltered drinking water
- Lake George Park Commission, NYSDEC, Adirondack Park Agency, USACE, municipalities, ….
- Sodium (2x), Chloride (4x), Zebra Mussels, Asian Clams....
- Tourism, second homes, economic impacts
• Existing stormwater treatment pond for the Northwest section of the VLG
• Stormwater runoff from the roads going to Vortechnics™ unit, then to Lake George
• Traditional treatments – catch basins, rock stabilization, drywells
• Wanted to try different product and the VLG DPW is willing to utilize various technologies.
Benefits

- Utilize newer product (for us and the muni’s)
- Low risk site
- Mowing will be necessary
- Easier to replace than rock
- Nutrient uptake by plants
• Installation of permanent rolled erosion control (coconut matting with double plastic mesh)
• Shoremax™ matts installed (permanent turf reinforcement matt)
• Stapled in place
There are no silver bullets for E&SC or stormwater management.

You may need to utilize multiple products or have change in management strategies.
What can be done?
Who needs to be involved?
How can it be done (construction)?
How can it be funded?
What about maintenance?

- NYSDOT property
- Parking lot for construction vehicles
- Existing drainage from a portion of the on ramp
- No connection from the drainage to the north
I-87 EXIT 22 / RTE. 9 MITIGATION
STORMWATER MITIGATION PROJECTS
ENGLISH BROOK WATERSHED

JARRETT Engineers, PLLC
Civil & Environmental Engineering

ISSUED FOR CONSTRUCTION
Rain Barrels

Porous Pavers

Vegetated Swale

Image courtesy of Berkeley, CA, Office of Energy and Sustainable Development
Information compiled from

- Warren County SWCD, [www.warrenswcd.org](http://www.warrenswcd.org)


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