Rain Gardens: Acceptable best management practice for addressing stormwater runoff from impervious surface under the Shoreland Protection Act (Chapter 49A of Title 10, § 1441 et seq.).

LAKE BENEFITS
Rain gardens capture and treat stormwater flowing from the lawn or impervious surfaces and prevent it from entering the lake.

MATERIALS
Replacement soil mixes are available at local garden centers. Native plants can be bought from your local nursery. Please see Planting and Renaturalizing Areas from this BMP series for planting specifications. Note: Do not use fill that may contain invasive plant material.

Description: Rain gardens are attractive and functional landscaped areas that filter rain runoff.

Purpose: Rain gardens are designed to capture and filter runoff from paths and impervious surfaces. They collect water in bowl-shaped vegetated areas, and allow it to slowly soak into the ground. A rain garden reduces the potential for erosion and minimizes the amount of stormwater flowing from the lawn and impervious surfaces into lakes.

How to:

Installing a Rain Garden. Rain gardens can vary in size, but are most effective when built to 20-30% of the contributing drainage area. Rain gardens for single-family homes will typically range from 150 to 300 square feet, but even a smaller one will help reduce water pollution problems.

- The garden should be a shallow bowl-shape, with the lowest point of the garden no more than 6” below the surrounding land.
- The sides should be gently sloping towards the center to prevent sudden drop-offs that could lead to erosion problems or walking hazards.
- Rain gardens are often placed in a preexisting or created depression within a lawn, or in a location that receives roof runoff from a downspout.
- To avoid flooding improperly sealed foundations, build your rain garden 10’ away from existing structures (including septic tanks), and direct water into the garden with a grassy swale, French drain, gutter extension or other device.

Rain gardens can be placed in sunny or shady regions of your lawn. Plant the lowest point with wet tolerant species, then use moist tolerant species for the sides closest to the center and the edges of the rain garden should be planted with moist to dry or dry tolerant plants. It is also important to check the permeability of your soil. Sandy soils only need compost added, but clay soils should be replaced with a mix (50– 65% sand, 15-30% topsoil, 2 -30% compost). After construction of the garden is complete, the entire area should be covered with a thick layer of mulch.
**Design Guidance for Placement:**

To test the drainage of the possible rain garden location, dig a 6-8 inch deep and wide hole and fill with water. If the water does not drain within 12 hours, the location is not appropriate for a rain garden. Rain gardens should be placed where their potential can be maximized. For example, although placing a rain garden under a mature tree will intercept runoff, the tree is most likely taking up more water than the garden would take up; therefore, a rain garden is unnecessary in this location. Also, do not locate a rain garden where there is existing native vegetation that would need to be cleared.

**Maintenance:**

Overall, once plants mature, the maintenance of a rain garden is very low. Watering is important during the first growing season, and some weeding is necessary after planting. As the garden matures, some of the perennials may need to be divided if plantings become too crowded.

**Links:**