MAINTAINING YOUR RAIN GARDEN

INSPECTION AND MAINTENANCE
MAINTENANCE MEASURES

**WEEKLY TASKS:**
1. Watering
2. Weeding
3. Inspecting

**ANNUAL TASKS:**
1. Mulching
2. Pruning
3. Re-planting
4. Removing sediment
5. Soil Testing
6. Harvesting Plants
7. Cleaning of Gutters
8. Replacing materials (stone, landscape fabric)
WEEKLY MAINTENANCE:
WATERING

• Water plants regularly – particularly during the first 1-2 growing seasons
• Be careful that the plants don’t get too wet or too dry
WEEKLY MAINTENANCE: WEEDING

• During the first few years, you will need to weed often during the growing season

• You will need to weed less and less as the plants grow and surpass the weeds

• Watch out for aggressive invasive species
INVASIVE PLANTS IN NEW JERSEY

- Asian Bittersweet
- Japanese Stilt Grass
- Japanese Honeysuckle
- Garlic Mustard
- Multiflora Rose
- Mugwort

http://www.invasivespeciesinfo.gov/unitedstates/nj.shtml
WEEKLY MAINTENANCE: INSPECTING

• What am I inspecting for?
  • Invasive plants
  • Plant health
  • Excessive sediment
  • Movement of sediment within the rain garden
WEEKLY MAINTENANCE: INSPECTING

- Observe the rain garden during rain events and note any successes.

**Success:** Stormwater runoff picks up oil and grease from the parking lot, flows through a curb cut, and into a rain garden. The rain garden traps the nonpoint source pollutants before they reach the nearby lake.
WEEKLY MAINTENANCE: INSPECTING

- Observe the rain garden during rain events and note any problems

**Problem:** Gullying after rain event

**Solution:** Add a berm, more plants, river rocks, and/or more mulch
WEEKLY MAINTENANCE: INSPECTING

- Observe the rain garden during rain events and note any problems

**Problem:** Rain garden is not infiltrating within 24 hours

**Solution:** Add sand wicks, preferably 1’ deep if possible, and fill with pockets of coarse sand
MAINTENANCE MEASURES

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ANNUAL MAINTENANCE: MULCHING

• Add mulch every spring to maintain a three inch mulch layer in your rain garden
ANNUAL MAINTENANCE: PRUNING

- Cut back dead vegetation, flowers, and tattered or unwieldy plants
ANNUAL MAINTENANCE: PRUNING

- Directs plant growth
- Improves plant health
- Increases production of flowers + fruit
HOW DOES PRUNING A RAIN GARDEN DIFFER FROM OTHER GARDENS?

• In a rain garden, dense shrub growth is encouraged to provide an increase in filtering capacity
TYPES OF PRUNING

• **THINNING:** This type of pruning removes entire branches back to the main trunk or major branches to the ground.
  
  Expected result: large, open shrub

• **HEADING (HEADING BACK):** This type of pruning removes only part of a branch.
  
  Expected result: growth of multiple branches in place of single branch, thus a more dense shrub.

• **DEADHEADING:** This type of pruning removes the spent flowers of an herbaceous plant.
  
  Expected result: increased blooming throughout the season.
WHEN TO PRUNE?

• Prune summer and fall flowering trees and shrubs in the dormant season (late winter/early spring)

• Prune spring flowering trees and shrubs soon after their flowers fade

• **SPECIAL NOTE!** Plants such as hydrangeas and roses - some of these flower in spring, some in summer or fall, some flower repeatedly

• **BE CAREFUL!** Avoid pruning plants between July 15th – October 15th, as it stimulates new growth that may not be able to withstand the hard frosts in October
ANNUAL MAINTENANCE: REMOVING SEDIMENT

- Since the rain garden serves the purpose of catchment and filtering runoff, sediment will tend to accumulate within the garden. This sediment would have otherwise run directly into the local waterways.
With a flat shovel, remove soil that has accumulated in the basin. Avoid the vegetation!

There is no exact schedule for when this should be done. Try to monitor sediment accumulation, especially after all heavy storm events.

Be sure that sediment is not churning up from exposed areas of the rain garden. Flow should be dissipated to avoid these situations, which are likely to occur in the early stages of stabilization.

Core aerate or cultivate bare areas annually if surface becomes clogged with fine sediments.
ANNUAL MAINTENANCE: REPLANTING

• Remove or replace plant material that did not thrive
ANNUAL MAINTENANCE: SOIL TESTING

• Soil should be tested every 3 years

• pH should be in the acidic range
  – If pH is <5.2, apply limestone
  – If pH is >7.0 to 8.0, add aluminum sulfate or sulfur to reduce pH according to recommendations

• Soil amendments should only be added when no storms are expected

• Do not fertilize the rain garden unless soil test results show a serious nutrient deficiency
ANNUAL MAINTENANCE: HARVESTING PLANTS

• Take cuttings, divide, and/or collect seeds from successful plants in the rain garden and use them in other parts of your landscape.
ANNUAL MAINTENANCE: CLEANING GUTTERS

• At least once a year, make sure that any gutters connected to the rain garden are clear of debris.
• You may have to clean the gutters more frequently if you have large trees in close proximity.
ANNUAL MAINTENANCE: REPLACING MATERIALS

- Add more river rocks, if necessary
- Re-position river rocks that may be diverting rainwater flow
- Landscape fabric (used only in strategic locations) will need to be replaced after about 10 years
- Add mulch
- Re-seed the berm if there are areas of exposed soil
BEFORE and AFTER MAINTENANCE

BEFORE

AFTER
A RAIN GARDEN OVER TIME

At time of installation
Springfield Township Municipal Annex Building
Springfield, NJ

First growing season

Second growing season

Third growing season

Fourth growing season
REMEMBER: rain gardens are LOW maintenance gardens, not NO maintenance gardens!