

RIPARIAN RESTORATION PROJECT

LAKE MUSCONETCONG STANHOPE BOROUGH

Riparian Forest Buffers

Communities of trees, shrubs and other plants growing along streams and lakes.

Buffer Benefits

Protect and enhance the water quality of streams and their aquatic environments by filtering non-point source pollutants such as sediment and nutrients from storm water runoff. Buffers also reduce streambank erosion and provide improved wildlife and fisheries habitat.

Additional Buffer Information:

www.northjerseyrcd.org
or
www.rce.rutgers.edu/njriparianforestbuffers



North Jersey
Resource
Conservation
and
Development

54 Old Highway 22
Suite 201
Clinton, NJ 08809-1389

Phone: 908-735-0733

Objectives of the Riparian Forest Buffer Projects were to demonstrate:

1. Effective site design utilizing naturally-occurring plant communities
2. Design flexibility that can incorporate such things as aesthetics, recreation & environmental benefit to a waterway in a natural area
3. The use of native plants
4. Control lakeshore erosion

Waterway Buffered: Lake Musconetcong

Location: Lake Musconetcong, Stanhope Borough, Sussex County

Description: The property is owned by Hopatcong State Park and leased to Stanhope Borough as a passive community park located within a highly residential area. There are some existing mature trees on site, therefore this project will focus on increasing the understory canopy using shrubs and understory trees. The completed buffer consists of 53 native trees representing 6 different species & 211 native shrubs representing 10 different species.

Size: 340 feet long, 0.54 acres

Planting Date: May 2006

Total Cost: \$16,341.06



Site prior to planting August 2005

RIPARIAN RESTORATION PROJECT

LAKE MUSCONETCONG STANHOPE BOROUGH

Dominant Trees & Shrubs Planted

Trees:

- Red Maple
- Shadbush
- River Birch
- Eastern Red Cedar
- White Pine
- Black Willow

Shrubs:

- Black chokeberry
- Sweet pepperbush
- Red Osier Dogwood
- Gray dogwood
- Witch hazel
- Pussy Willow
- Maple-leaved viburnum
- Arrowwood
- Nannyberry
- Blackhaw

Project Partners & Volunteers: The riparian forest buffer demonstration is part of a larger regional project, it was coordinated and implemented by North Jersey RC&D. The design was created by North Jersey RC&D and Princeton Hydro, LLC. Volunteers from the NJ Department of Corrections, Morris Land Conservancy's Partners for the Park (Pfeizer Corporation), and borough residents were invaluable participants in the planting and establishment of this planting site.

Project Funding: Originated from U.S. Environmental Protection Agency Nonpoint Source Pollution 319h grant program administered by the NJ Department of Environmental Protection through a grant awarded to the North Jersey RC&D.

Design Components

1. Buffer Installation: deer resistant species
2. Over plant to discourage geese on land from the lake
3. Retain designated access areas for residents to have access to the lake shore



After planting September 2006

Additional Buffer Information:

www.northjerseyrcd.org
or
www.rce.rutgers.edu/njriparianforestbuffers