

Allen Pond Demonstration Project - Phase II

#2001-19

Waterbody Name: Allen Pond
Location: Greene, Androscoggin County
Waterbody Status: NPS Priority Watershed, Most at Risk
Project Sponsor: Androscoggin Valley SWCD
Project Duration: April 2001 – January 2005
319 Grant Amount: \$36,410
Local Match: \$32,893



PROBLEM:

The water clarity of Allen Pond is average to slightly below average, phosphorus concentrations are moderate, and the potential for internal phosphorus recycling is rated as moderate to high. The lake experiences a loss of dissolved oxygen during the summer months.

A nonpoint source survey of the 2.7-square-mile watershed was conducted in 1997, and over 60 NPS problem sites were documented. The eastern shoreline is intensively developed, and a large public campground on the western shoreline supports heavy use during the summer months. Conversion of summer camps to year around homes continues, and new construction is under way on several lots. Primary NPS concerns continue to be private roads and driveways, insufficient vegetative buffering in developed areas, channelized flow from state roads which affects private properties, and inadequate treatments for logging roads.

PROJECT DESCRIPTION:

The project continued work to demonstrate the value of erosion and sediment control BMPs to reduce existing runoff and erosion problems in the Allen Pond watershed. Technical assistance was offered to landowners and the Town of Greene to promote installation of conservation practices. Outreach was conducted to build community awareness regarding the long term adverse impact of nonpoint sources of phosphorus on lake water quality through public meetings, workshops, and a variety of media outlets. BMPs were installed at several typical NPS sites to demonstrate actions needed to help protect the lake's water quality. MDOT cooperated with the partners to mitigate erosion problems on highway sites.



PROJECT OUTCOMES:

- 10 sites were treated with conservation practices including public and private roads, private driveways, pathways and a section of eroding shoreline. Vegetation was added on 3 properties to enhance existing buffers and stabilize eroding soil. The sites served as models for the community on proper conservation practices.
- Staff estimated that 3 of the demonstration sites reduced pollutant loading to the lake by 10 tons of sediment per year (Region 5 Method).
- Technical assistance was provided to 19 landowners to help them recognize and take action to reduce erosion and polluted stormwater runoff from their property.
- The Allen Pond Improvement Association held several educational events, installed watershed signage in the community to keep water quality concerns in the public eye, and rallied support for passage of improvements in an ordinance for shoreland zones.
- The Association increased their knowledge about NPS issues, improved communications with the Town of Greene and increased town official's awareness of the water quality protection concerns in the Allen Pond Watershed.



PROJECT PARTNERS:

Allen Pond Improvement Association

Town of Greene

Maine Department of Transportation

Natural Resources Conservation Service

CONTACT INFORMATION:

Phoebe Hardesty, Androscoggin Valley SWCD – (207) 753-9400

Jessie MacDougall, DEP – (207) 287-5586, jessie.macdougall@maine.gov

Suggested Citation:

Maine Department of Environmental Protection (2006) "Nonpoint Source Management Program 2005 Annual Report," Document# DEPLW0758. Augusta: MDEP.