# East Pond and North Pond NPS Remediation Project #2001R-02

Waterbody Name:	East Pond and North Pond
Location:	Oakland, Smithfield, Mercer and Rome - Kennebec and Somerset County
Waterbody Status:	Impaired, NPS Priority Watersheds
Project Grantee:	Belgrade Regional Conservation Alliance
Project Duration:	April 2001 – August 2004
319 Grant Amount:	\$42,641
Local Match:	\$40,505



## **PROBLEM:**

East Pond is located in the towns of Oakland (Kennebec County) and Smithfield (Somerset County). North Pond is located in the towns of Rome (Kennebec County), Smithfield and Mercer (Somerset County). East Pond is a 1724 acre lake and has a 4.3 square mile watershed. North Pond has a surface area of 2253 acres and a 14.6 square mile watershed. East Pond is at the top of the Belgrade Lakes drainage system. East Pond flows into North Pond and North Pond drains to Great Pond.

East Pond has been monitored since 1975 and water quality is considered to be below average to poor. The lake experienced algal blooms in 1993, 1995, 1998, 1999, 2002, and 2003. The pond is on the list of impaired lakes and had a TMDL (loading allocation) completed. Water quality monitoring data for North Pond has been collected since 1970 and water quality is considered to be below average. Both ponds are on the NPS Priority Watersheds list. The Belgrade Regional Conservation Alliance (BRCA) completed a watershed survey and management plan for both ponds.

# **PROJECT DESCRIPTION:**

The purpose of the East Pond and North Pond Remediation Project was to begin addressing threats to water quality by installing conservation practices on specific sites that will correct erosion and runoff problems. These also demonstrate conservation practices for town officials, lake property owners, lake associations, and the general public.



#### BRCA staff coordinated the installation of conservation

practices on 24 sites including 1 town road, 10 camp roads, 3 driveways, 9 residential vegetated buffer sites, and 1 beach. The BRCA Conservation Corps addressed an additional 20 smaller sites through installation of buffers, riprap, mulch, and french drain. Over three field seasons, 192 landowner contacts were made. Tours were also provided to camp road commissioners to educate them on what could be done on their road.

## **PROJECT OUTCOMES:**

- 17 problem sites were installed on East Pond and 8 sites on were installed on North Pond. A total of 2.56 miles of road were re-built and 7,711 square feet of buffer garden were installed.
- A large variety of conservation practices were installed including the following:
  - Re-graded/crowned roads (7) New road surface material (13) Ditch installation (9) Recycled asphalt installed (1) Ditch stabilization (3) Culvert installation (5) Culvert inlet/outlet stabilization (2) Sediment basin (3) Turn-outs (10) Vegetated buffer plantings (9) French drains (2)

Bank stabilization (2) Riprap (1) Terraces (4) Berm (1) Trail mulched (2) Sediment trap/settling basin (2) Drywell (2) Mulch berm (1) Permanent mulching (1) Rubber razors (3)

- The estimated Pollutant Load Reduction resulting from the project totaled 11 tons/year of sediment and 14.5 pounds/year of phosphorus (WEPP:Road model and Colby College).
- Community outreach and education occurred through landowner contacts, contractor education and demonstration of a highly visible demonstration sites.



### **PROJECT PARTNERS:**

Belgrade Regional Conservation Alliance BRCA Conservation Corps North Pond Association East Pond Association Town of Smithfield Maine Department of Transportation Pine Tree Camp

# CONTACT INFORMATION:

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