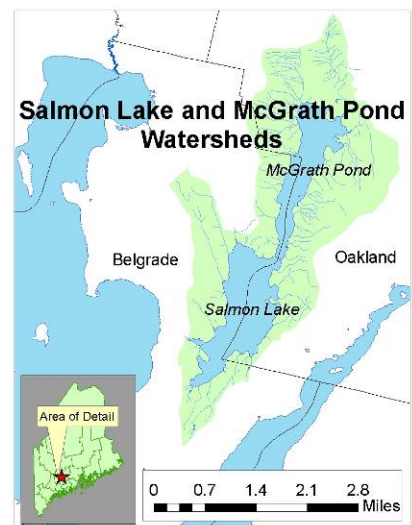


Salmon-McGrath Watershed Load Abatement Project – Phase 3

#2005R-13

Waterbody Name: Salmon Lake and McGrath Pond
Location: Belgrade and Oakland – Kennebec County
Waterbody Status: NPS Priority Watershed
Project Grantee: Kennebec County SWCD
Project Duration: April 2005 – December 2007
319 Grant Amount: \$46,873
Local Match: \$31,947



PROBLEM:

Salmon Lake and McGrath Pond are located in the towns of Belgrade and Oakland and are part of the Belgrade Lakes watershed. McGrath Pond flows through a short connector to Salmon Lake, which then flows to Great Pond. McGrath Pond has a surface area of 485 acres and a 3.8 square mile watershed, and Salmon Lake has a surface area of 667 acres and a 3.1 square mile watershed.

The water quality of McGrath Pond is slightly above average, and the potential for algal blooms is moderate. Salmon Lake's water quality, however, is considered to be slightly below average and the potential for algal blooms is moderate. Prior to a restoration project in the mid 1980s, Salmon Lake experienced frequent algal blooms. Since then, it has experienced occasional blooms. The lake continues to have high phosphorus levels and high dissolved oxygen depletion in deep areas of the lake.

A 1999 NPS survey identified 132 NPS sites in the watersheds. An additional 73 sites were identified during the Phase 1 and Phase 2 implementation projects. A total of 70 sites were fixed during these two phases. The majority of sites fixed were high and medium priority sites associated with shoreline development (private roads, driveways and residences), but included some commercial businesses and town or state roads.

PROJECT DESCRIPTION:

The primary purpose of the Phase 3 project was to continue reducing NPS pollutant loading by installing BMPs on 20 high and medium priority sites. Despite challenges in getting BMP sites completed, 19 NPS sites were remediated through cost share agreements. The project proved to be challenging because it was the third phase and there were fewer interested and willing landowners. Also, significant additional staff time was spent seeking contractors and conducting project administration (due to the small scale nature and the large number of landowner agreements).



Pinney Road Project

In addition to remediation on the 19 sites, technical assistance was provided to six landowners with low priority sites. Education and outreach on the project included a camp road workshop and articles in local newspapers and the Kennebec County SWCD newsletter.

PROJECT OUTCOMES:

- Best Management Practices were installed on a total of 19 sites. Project work included the following:
 - Stabilized driveway (1 site) and road surface (4 sites)
 - Installed turnouts (1 site) and ditches (3 sites)
 - Replaced culverts and armored inlets/outlets (2 sites)
 - Spread erosion control mulch (2 sites)
 - Stabilized slope and shoreline (2 sites)
 - Enhanced buffer
- Annual pollutant loading was reduced by an estimated 13.9 tons of sediment and 14.0 pounds of phosphorus due to installation of best management practices (US EPA Region 5 Method and WEPP Method).
- Technical assistance was provided to six landowners.
- 13 landowners attended a road maintenance workshop.



The Phase 3 project addressed several erosion problems on Pinney Road. New surface material was added to the road surface, and the road was crowned. A rock-lined sediment basin was installed to trap runoff (above left), and rubber razor blades were installed to divert runoff into the woods (above right).

PROJECT PARTNERS:

Belgrade Regional Conservation Alliance Conservation Corps
McGrath Pond-Salmon Lake Association

CONTACT INFORMATION:

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