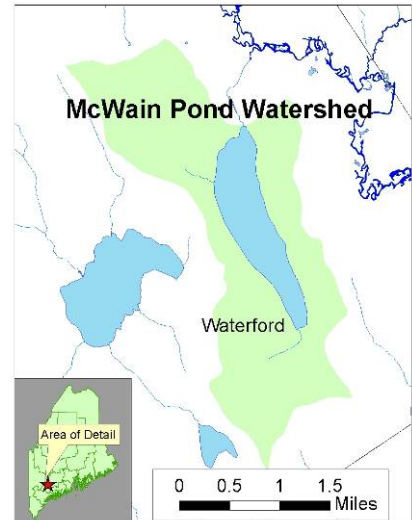


McWain Pond Watershed Survey

#2006P-14

Waterbody Name: McWain Pond
Location: Waterford – Oxford County
Waterbody Status: NPS Priority Watershed
Project Grantee: Lakes Environmental Association
Project Duration: April 2006 – May 2007
604(b) Grant Amount: \$9,138
Local Match: \$9,185



PROBLEM:

McWain Pond (also known as Long Pond) has a surface area of 445 acres and a watershed area of 3.9 square miles. McWain Pond drains to the Crooked River, which flows into Sebago Lake – a drinking water source for more than 45,000 households in southern Maine. McWain Pond's shoreline is fringed with 75 seasonal and year-round homes and two summer youth camps, which attract a total of 400 campers each year.

The Maine DEP, Lakes Environmental Association (LEA) and local volunteer monitors have tested McWain Pond's water quality since 1978. This testing indicates that the bottom waters of the lake experience oxygen depletion to levels that severely limit fish habitat and pose a high risk of phosphorus recycling problems. In addition to its water quality monitoring program on the pond, LEA helps watershed residents address erosion problems through its *Clean Lake Check-Up* program.

PROJECT DESCRIPTION:

The purpose of the project was to identify, document and prioritize soil erosion sites in the McWain Pond watershed and to recommend conservation practices for each of these sites. Survey methods were based on those outlined in the DEP publication, *Citizen's Guide to Lake Watershed Surveys*. The day-long volunteer training session was held on April 29, 2006. Eighteen volunteers completed the survey over the following month, and technical staff checked their work throughout the summer and fall months.

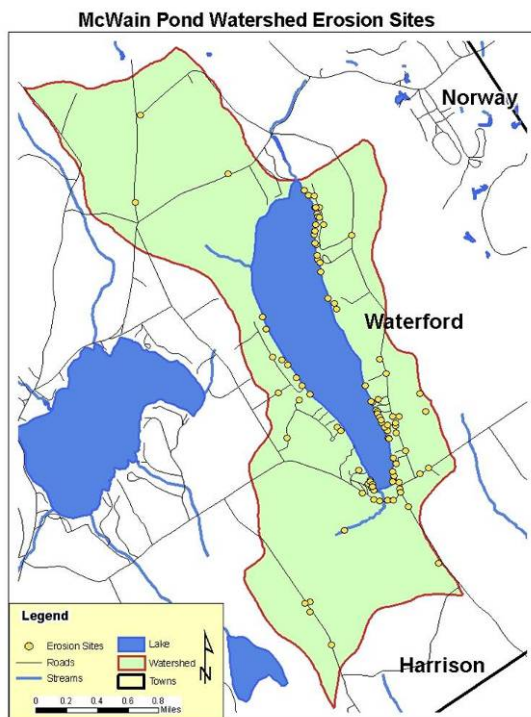
The watershed survey identified a total of 95 erosion sites. Survey data was summarized in the *McWain Pond Watershed Survey Report*. Survey reports and two-page summaries of the survey findings were distributed to town officials and watershed residents. Project staff developed detailed BMP designs for four priority erosion sites and delivered one presentation to the McWain Pond Association and two presentations to the Waterford Selectboard. Over the course of the project, 11 articles were printed about the watershed survey in local newspapers and newsletters.



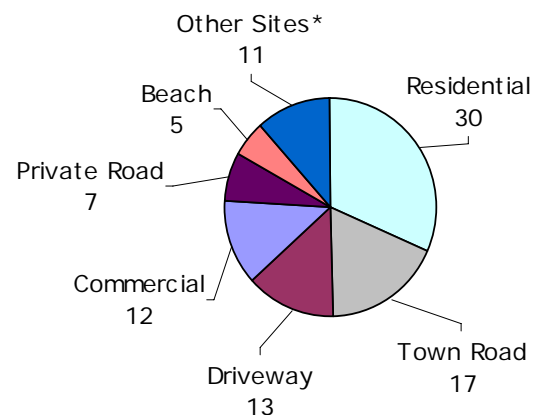
Driveway erosion site

PROJECT OUTCOMES:

- Project staff and 18 local volunteers surveyed the entire McWain Pond watershed and documented 95 erosion sites. The *McWain Pond Watershed Survey Report* (March, 2007) summarizes watershed survey findings and lists specific descriptions and recommendations for identified sites.
- After learning about erosion problems on their properties, several landowners took the initiative to fix sites listed in the watershed survey report. This included three sites at Birch Rock Camp, one beach site in McWain Shores, and two residential sites.
- BMP designs were completed for four priority sites identified in the survey. An engineer was hired to complete two of the designs, and project staff completed the other two site designs.
- The project laid the foundation for mitigation efforts in the watershed. The McWain Pond Association was awarded a 319 grant for the *McWain Pond Watershed Improvement Project*, which will begin in April 2008.



Watershed Survey Findings Number of Sites by Land Use



*Other sites include Construction Site (3), Path (3), Boat Access (3), Logging Road (1) and State Road (1).

PROJECT PARTNERS:

McWain Pond Association
Town of Waterford
Portland Water District
Birch Rock Camp
Camp Waziyatah

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