

## Cascade Creek Frontier Park Project

The Cascade Creek project is a cooperative effort between the City of Erie, the Erie County Conservation District, SONS of Lake Erie, PA Sea Grant, and Lake Erie Arboretum at Frontier (LEAF) Park. The project work is occurring in several phases, with the ultimate intention to promote the continued wise public use of the park, while improving water quality to Cascade Creek and subsequently Presque Isle Bay.



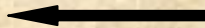
The existing stream channel had clear signs of **accelerated erosion**, primarily due to urban stormwater runoff and **lack of riparian buffer**. This project intends to not only decrease current sediment loads, through stabilization of the stream banks and establishment of riparian buffer zones, but minimize future disturbance to these areas by limiting public access within the riparian zones and promote filtering of other non-point source pollutants through the buffer establishment.

During Phase I and Phase II, over 800 feet of streambank were stabilized and restored to a natural state through the use of several natural streambank design techniques, including bank grading, root wads, log vanes, j-hooks, rock weirs, armoring, brush matting and vegetative planting.

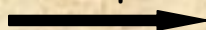


Before

Example of  
accelerated  
erosion



Creation of  
riparian buffer  
zone and natural  
stabilization  
techniques



After

The remainder of the project is tentatively scheduled for construction in the summer of 2012.

This project was partially funded through a grant provided by the Great Lakes Commission with funds from the United States Department of Agriculture, as well as PA DEP Growing Greener Funds. Additional funding and support for the project from SONS of Lake Erie, LEAF, City of Erie, and Sea Grant.