Chagrin State Scenic River (Chagrin Falls)

Project Sheet

Oxbow River and Stream is recognized as a leader in the field of stream restoration and watershed management.

Oxbow specializes in:

- *Natural channel design*
- *Bio-engineering*
- Stream management

For more information on this project or to learn more about Oxbow River and Stream, you may use the following:

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Our mission: to restore the physical and biological functions of streams.

Project Specifications

Client: Village of Chagrin Falls
Location: Cuyahoga County, Ohio
Watershed: Chagrin River
Restored Channel Length: 2,000 l.f.
Drainage Area: 35 sq. miles

Specialized Services:
Site Survey and Evaluation
Project Design and Installation
Bioengineering Techniques
Streambank Stabilization
Revegetation

Project Summary

Oxbow River & Stream Restoration, Inc. provided assessment, design, and construction for the restoration and stabilization of the 2000 LF Chagrin State Scenic River. This design included the application of proven natural stability concepts, the Rosgen Stream Classification system, stable stream geometry relationships and soil bioengineering.

Pre-Project Conditions

Our restoration objective was to restore a stable stream channel and enhance aquatic habitat. Pre-existing site conditions consisted of grass monoculture, a high cut bank with lateral erosion rates exceeding 5 feet per year. Approximately 1000 cubic yards of bank materials were eroding from this site annually.

The project solution utilized root wads, tree revetments, live branch layering, rock weirs and veins, and revegetation of the riparian zone. Revegetation included organic soil amendments, short term stabilization and erosion controls, native grasses, wildflowers and herbaceous plants, willow and dogwood species understory and native hardwood canopy.

Oxbow River & Stream Restoration Inc.'s responsibilities included site survey and evaluation, design and construction drawings, specifications and permits, cost estimates, construction management, and installation of the various bioengineering techniques.

Chagrin River after Bank Stabilization