



Green Infrastructure & Stormwater Management CASE STUDY

Glenwillow Bioswales

Location: Glenwillow, OH

Client: Village of Glenwillow

Design Firm(s): URS

Landscape architect/Project contact: Katherine Gluntz Holmok, ASLA

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ASLA Chapter: Ohio

Project Specifications

Project Description: Almost two miles of Tinker's Creek lies within Glenwillow Village and Glenwillow is the only municipality within the watershed where the entire village drains into the creek. Tinker's Creek is a large tributary to the Cuyahoga River, which flows into Lake Erie - Glenwillow's drinking water source.

Stormwater bioswales were installed in the existing parking lot behind Village Hall, within the Town Center Park and the Building Department. These bioswales are designed to reduce grease, oil and sediment flowing into Tinker's Creek and will help with the overall goals of restoring Tinker's Creek. These bioswales will also beautify the Village by installing colorful flowers and educational signage. As part of this program, a volunteer Planting Day was held to educate residents, visitors and park users to the importance of clean water for Glenwillow.

Project Type:

Government complex

A retrofit of an existing property

Design features: Bioretention facility and curb cuts.

This project was designed to meet the following specific requirements or mandates: To meet funding criteria, developer/client preference

Impervious area managed: 5,000 sq/ft to 1 acre

Amount of existing green space/open space conserved or preserved for managing stormwater on site: less than 5,000 sq/ft

The regulatory environment and regulator was supportive of the project.

Did the client request that other factors be considered, such as energy savings, usable green space, or property value enhancements? The mayor desired the designs to be formal and improve the overall aesthetics of the Village.

Cost & Jobs Analysis

Estimated Cost of Stormwater Project: \$10,000-\$50,000 (Public funding: State, Surface Water Improvement Fund - Ohio EPA)

Related Information: Design - \$12,600; Construction \$50,000

Was a green vs. grey cost analysis performed? No

Cost impact of conserving green/open space for stormwater management over traditional site design/site development approaches (grey infrastructure)? Did not influence costs.

Number of jobs created: Not available

Job hours devoted to project: Not available

Planning and Design: Not available

Construction: Not available

Annual Maintenance: Not available

Additional Information

Links to images: <http://www.glenwillow-oh.gov/bioswale>