



# Green Infrastructure & Stormwater Management CASE STUDY

---

## Mayfield Village Wetland Park

**Location:** Mayfield Village, OH

**Client:** Village of Mayfield, Ohio

**Design Firm(s):** URS Corporation, Cleveland

**Landscape architect/Project contact:** Thomas Evans, ASLA

**Email:** [tom\\_evans@urscorp.com](mailto:tom_evans@urscorp.com)

**ASLA Chapter:** Ohio

### Project Specifications

**Project Description:** The Mayfield Village Wetland Preserve preserves, enhances and enlarges a 14-acre wetland complex to serve multiple stormwater management functions within a 25-acre wetland park.

**Project Type:**

Open space - park

Part of a new development

**Design features:** Stormwater wetland providing stormwater management for a 40-acre project area.

**This project was designed to meet the following specific requirements or mandates:**

Local ordinance, meet local stormwater management code

**Impervious area managed:** greater than 5 acres

**Amount of existing green space/open space conserved or preserved for managing stormwater on site:** greater than 5 acres. A 25-acre wetland preserve was created.

**The regulatory environment and regulator was** apprehensive about the project.

**Did the client request that other factors be considered, such as energy savings, usable green space, or property value enhancements?** The Village desired the creation of a 25-acre wetland park to provide an amenity to the adjacent and developing office campus for Progressive Insurance. The enhanced wetland complex provides significant filtration from runoff from adjacent I-271 and the upstream 300-acre watershed.

## Cost & Jobs Analysis

**Estimated Cost of Stormwater Project:** \$100,000-\$500,000 (Public funding: Local)

**Was a green vs. grey cost analysis performed?** No

### **Cost impact of conserving green/open space to the overall costs of the site**

**design/development project:** The project provided a cost effective way to solve stormwater management and wetland mitigation functions to offset impacts from a 500,000 sq/ft office campus development.

**Cost impact of conserving green/open space for stormwater management over traditional site design/site development approaches (grey infrastructure)?** Significantly reduced costs (10% or greater savings). Grey infrastructure solution would have been cost prohibitive.

**Number of jobs created:** 5

### **Job hours devoted to project:**

Planning and Design: 1,800

Construction: 2,000

Annual Maintenance: Not available

## Performance Measures

### **Stormwater reduction performance analysis:**

The project created a 7-acre wetland basin serving a 300-acre suburban watershed, which HEC RAS modeling indicates reduced peak discharges by 25%.

**Community & economic benefits that have resulted from the project:** The 25-acre wetland park provides stormwater management, wetland mitigation, and an open space amenity for the economic development of the adjacent office campus for Progressive Insurance housing 2000 jobs.

## Additional Information

**Links to images:** Additional project information, images, plans, and description are readily available from the landscape architect.