



2010 Surface Water Improvement Grant Project Summary

Project Number #10SWIF-CUY-034

Est. Project Completion May 2012

SubGrantee **City of Mayfield Heights**
6154 Mayfield Road
Mayfield Heights, Ohio 44124

Project Contact: **David McCallops, City Engineer**
City of Mayfield Heights

Amount Requested: **\$231,900**

Project Title: **Mayfield Heights Green Infrastructure Demonstration**

Project Location: City of Mayfield Heights, Cuyahoga County

Watershed: Chagrin River

Project Summary: \$231,900 in Surface Water Improvement Fund (SWIF) grant funding is requested to implement a green infrastructure demonstration project on the grounds of the city of Mayfield Heights City Hall. The project will include the installation of 415 square feet of rain gardens planted at the front entrance of the city hall building, 2,215 square feet of permeable concrete parking bays and 2,150 square feet of bioswale end islands 3,797 square of forested parking areas including shade tree bumper islands, permeable concrete strips and bioswales end islands functioning as canopy, understory and soil/duff layers to capture rainfall and parking lot runoff. Additionally, the project will include education and outreach designed to inform the public on cost effective, environmentally beneficial solutions to relieve flooding, and to enhance water quality.

This project is being implemented consistent with the recommendations to retrofit antiquated stormwater practices with green practices in the state endorsed Chagrin River Watershed Action Plan. It is also generally consistent with findings and recommendations within the Chagrin River Total Maximum Daily Load study completed by Ohio EPA and approved by US EPA.

Project Deliverables:

- Installation of 415 square feet of community scale rain garden demonstration areas at the main entrance to the city of Mayfield Heights City Hall building. This building is an ideal demonstration site, receiving more than 175 visitors per day.
- Installation of 2,215 square of permeable concrete parking bays. These bays will replace existing impervious asphalt bays and are designed to allow stormwater to infiltrate, thereby capturing nonpoint source pollutants from surface water runoff. These

parking bays will include an under drain and will be identified with permanently displayed interpretive signage.

- Install 2,150 square of vegetated end island bio-swales (9 shade tree bumper islands total) planted with understory and shade trees to provide filtering and cooling of surface stormwater flows. These shall also include the installation 1,620 square feet of permeable concrete strip.
- Conduct public education and outreach activities consisting of 2 public meetings, 2 project specific news releases, 1 in-construction project sign and 3 permanent interpretive signs, 20 post-construction tours, 3 field days, printing and distribution of 100 rain garden manuals and other activities.

Progress to Date:

- Executed design contract. Design documents are complete.
- Conducted two public meetings.
- Completed survey.
- Established project specific website. For more information please visit:
http://www.cuyahogawcd.org/EuclidCreekFiles/EC_MayfieldHtsGreenInfrastructureProject.htm

Environmental Results: Successful completion of this project will improve water quality by reducing nonpoint source pollutant loadings, reducing runoff through infiltration, and reduce downstream erosion and sediment deposition.



ABOVE--City Hall Entrance Rain Gardens Before (L) and After (R)
BELOW—City Hall Forested Parking Lot Before (L) and After (R)



