# Green Infrastructure & Stormwater Management CASE STUDY

## Waterview Recreation Center

**Location:** 5826 McMahon St., Philadelphia, PA
**Client:** Philadelphia Parks & Recreation
**Design Firm(s):** Meliora Environmental Design, PHS, PWD
**Landscape architect/Project contact:** Jessica Brooks
**Email:** jessica.brooks@phila.gov
**ASLA Chapter:** None.

Image: Philadelphia Water Department

### Project Specifications

**Project Description**: This site serves as a demonstration for several types of green infrastructure. The sidewalk in front was replaced with porous concrete, a first for any sidewalk in Philadelphia. Stormwater infiltrates into a stone trench that also collects runoff from the street and waters trees behind the sidewalk. Roof leaders have been disconnected and connected to flow-through planter boxes.

**Project Type**:
Other (please specify) - institutional / open space / recreation center / public green street
A retrofit of an existing property

**Design features**: Downspout removal, porous pavement, and flow-through planter boxes.

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

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

**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?** No.

## Cost & Jobs Analysis

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

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

**Number of jobs created:** Not available

**Job hours devoted to project:**

Planning and Design: Not available
Construction: Not available
Annual Maintenance: 80 hours

## Performance Measures

**Stormwater reduction performance analysis:**
Philadelphia designs their systems to manage the first inch of every storm from the drainage area. The metric used is acre-inches. This project manages .31 acre-inches.