

## WCIDC South Greensburg Commons – Permeable Paving

**Design features:** permeable paving system, canopy trees

**Date of Installation:** 2013

**Location:** South Greensburg Commons Industrial Park, South Greensburg Borough, Westmoreland County PA

**Client:** Westmoreland County Industrial Development Corporation

**Installation cost:** \$58,000 PA DEP Growing Greener

**Partners:** Westmoreland Conservation District, Westmoreland County Industrial Development Corporation, Westmoreland County Parks, Country Farms Inc.

**Project contact:** Kathryn Hamilton RLA, kathyh@wcdpa.com



*Permeable paving replaces existing asphalt paving to reduce runoff from a parking lot.*

### Project Description

This project is a stormwater management retrofit to capture and treat stormwater from a 100 car parking lot in an industrial park. Pollutants and runoff were being discharged through an existing stormwater system, directly into Jacks Run a tributary to Sewickley Creek. The existing bituminous paving was removed from 27 parking spaces and replaced with a permeable paving system. The system captures and retains stormwater runoff from the parking lot, reducing the volume of runoff and providing water quality improvements. There was no net loss of parking spaces in the parking lot, and additional canopy trees were placed along the edge of paving to provide shade to the parking lot and neighboring hike/bike trail.

### Benefits/Performance Measures

**Impervious area managed:** 1/2 acres

**Stormwater reduction performance analysis:**

Runoff from a 2" storm event on the 100 car parking

lot is fully managed by 5,400 sq ft of permeable paving which captures 1,700 cu/ft total runoff.

**Community and economic benefits that have resulted from the project:** The permeable paving provides catchment for stormwater runoff and pollutants, provides cooling for heated runoff, and provides volume reduction and water quality improvements to Jacks Run and the Sewickley Creek Watershed in an area where little currently exists.

**Related information:** The project costs included pavement demolition, underdrains, permeable paving system, and canopy trees.

### Recommended Maintenance

Link to maintenance guidelines for similar projects

## WCIDC South Greensburg Commons – Permeable Paving

### Additional Information



*Demolition of existing bituminous paving in existing parking spaces*



*A perforated underdrain beneath the pavement takes excess runoff from large storms away from the infiltration system.*

WCIDC South Greensburg Commons – Permeable Paving



*27 parking spaces have been converted to permeable paving.*