

# Stormwater Treatment

Welcome to the Kalamazoo Valley Community College (KVCC) Stormwater Treatment Area. We are committed to minimizing our impacts on the environment. Treating stormwater on campus is just one of the many ways we are striving to become a sustainable campus and a good steward of the West Fork Portage Creek Watershed.

## Why Treat Stormwater Runoff?

Traditional rooftops, parking lots, sidewalks and streets within urbanized areas prevent rain water from soaking into the ground and replenishing groundwater. Treating stormwater runoff from these impervious surfaces provides the following benefits:

- Pollutant removal (nutrients, heavy metals, sediments, oil/grease)
- Protection of aquatic life in nearby streams
- Restoration of natural stream flows
- Reduced flooding and erosion within nearby streams



Our multi-stage stormwater treatment system eliminates stormwater discharges to the West Fork of Portage Creek from the KVCC campus. This equates to annual reductions of approximately:

- 18.2 million gallons of stormwater
- 36 pounds of total phosphorus
- 500 pounds of nitrogen
- 7 tons of sediment

Other benefits of the stormwater system include a half-mile educational trail and more than five acres of native plantings designed to increase wildlife habitat, plant diversity, and provide a living laboratory for our environmental classes.



This project was funded by a Section 319 Grant obtained by KVCC from the Michigan Department of Environmental Quality Nonpoint Source Program. Project design by Kieser & Associates, LLC.

- 1 Stormwater Diversion** routes stormwater to treatment area
  - 2 Sediment Forebay** removes coarse sediments (0.5 acres)
  - 3 Wetpond** removes pollutants through settling & biological activity (1.5 acres)
  - 4 Irrigation Tank** stores stormwater to irrigate athletic fields (20,000 gal)
  - 5 Infiltration Basin** allows stormwater to soak into the ground (1 acre)
- You are here (★)

