

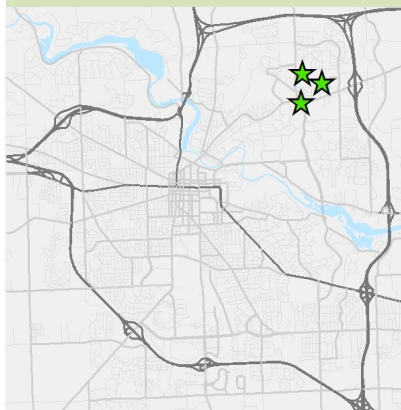
City of Ann Arbor Green Infrastructure

Millers Creek BMP Projects

- **Completed:** 2009
- **Construction Cost:** \$74,509.62
- **Stormwater Utility Fund Portion:** \$10,029.20
- **Other GI Funding Sources:** MDEQ grant,
- **Partners:** Huron River Watershed Council was the lead agency, Michigan Department of Environmental Quality

Green Infrastructure:

- 61 Rain barrels
- 4 Rain gardens
- Impervious area removal
- Large scale Bioswale
- Detention pond retrofit
- Flow and macroinvertebrate monitoring



This project is an implementation follow up to the Millers Creek Improvement Plan which was recognized by the USEPA as one of the five best watershed management plans nationwide in 2005. BMPs: 61 rain barrels, 3 residential rain gardens, a Church rain garden, Thurston Elementary School rain garden, conversion of 150 foot long Briarcliff street stub to a bio-retention area, and retrofitting the Plymouth Profession Building detention pond. Volunteers from neighborhood assisted in planting the rain gardens and bioswale. Together these

project capture and treat up to the 1-year design rainfall event for more than 13 acres of suburban development. Flow and macroinvertebrate monitoring was performed prior to and after the BMP installation. Modeling results indicate a 30% decrease in runoff delivered to the creek after a 1 inch rain event. Peak flow reductions ranged from 29 to 73% and peak flow was delayed between 22 to 38% from the start of the storm to the time of peak discharge. Macroinvertebrate communities have noticeably improved after BMP installation.

