

# SHOREWOOD

## WATER WALK AND MAP



Take a neighborhood stroll  
to see unique ways  
**Shorewood** treats and  
manages storm water.



## SHOREWOOD

is surrounded by two awesome waterways:

the **MILWAUKEE RIVER** and

**LAKE MICHIGAN**. The key to keeping these waters healthy is keeping the land clean and finding innovative ways to handle dirty storm water that flows over the land when it rains.

### WHAT IS STORM WATER?

Rain and snowmelt washes over the land and mixes with dirt, garbage, pet and yard waste and chemicals in our yards and streets. This dirty mix is "storm water runoff" and flows into storm sewers and often directly to Lake Michigan and the Milwaukee River. Don't forget we get our drinking water from Lake Michigan!

The Village of Shorewood and area businesses have installed innovative and natural ways to manage storm water and reduce flooding – these steps are called Green Infrastructure. Shorewood's Green Infrastructure Initiative was developed in 2012 to provide a road map for all projects in the Village.

Begin your Water Walk inside...



## WHAT CAN YOU DO TO MAKE A DIFFERENCE?

*Don't litter & pick-up litter you see*

*Do a beach or river cleanup*

*Pick up your dog's waste*

Check-out the

### SHOREWOOD WATERS PROJECT

A Village of Shorewood Project established in 2011



The **Shorewood Waters Project** includes a series of Atwater Beach and Milwaukee River improvements and educational outreach to empower residents with solutions to protect, enhance and enjoy Shorewood's waterways.

Check-out ideas to reduce storm water in your yard at the new **Green Infrastructure Center of Excellence**.

Learn more at: [www.freshcoast740.com](http://www.freshcoast740.com)

[VillageofShorewood.org/watersproject](http://VillageofShorewood.org/watersproject)

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Questions? Contact Kae @ 414-588-0617



# TAKE A STROLL THROUGH SHOREWOOD'S GREEN INFRASTRUCTURE

## 1. Rainwater Collection Tanks: 3801 N. Morris Blvd.

- in the Department of Public Works yard). These large grey tanks, installed in 2013, hold 5,000 gallons each, and collect rain water from the roofs of the surrounding buildings. This water is used for watering the Village's landscape plantings with watering tank trucks. A one-inch rain can fill both of these tanks!



## 2. Milwaukee River Bank Restoration: South side of Capitol Drive.

Take the Milwaukee River Greenway stairs down to the river where you will find a path that takes you along the river in both directions. A new river bank restoration began in March of 2018 in the area south of the stairs, from the Oak Left Trail down to the river. The area will be planted with native plants to stabilize the slope and improve storm water infiltration to reduce runoff into the Milwaukee River.



## 3. Rain Garden: 1225 E. Olive St.

This street island is a mini rain garden or biofiltration structure. It is a landscaped area designed to help prevent erosion and reduce and capture storm water runoff. The garden is planted with native plants that can handle wet conditions and have the ability to remove pollutants. These structures near the river play a large role in helping keep the Milwaukee River clean. The plants in this garden include: Joe Pye Weed (*Eutrochium*), Catmint (*Nepeta*), Russian Sage (*Perovskia*), Karl Foerster Feather Reed grass (*Calamagrostis*) and Silvergrass (*Miscanthus*).



## 4. Capitol Drive Biofiltration Structures:

There are 5 cement structures that are surrounded by black metal fences that have inlets and outlets to hold excess runoff during a storm or snow melt. The installations run from Capitol Dr. to Prospect Ave. These structures contain soils that are created for good drainage. Water runs in, is slowed down, filtered and then runs out to a storm sewer. If there is an overflow of water, the runoff goes directly to the storm sewers. Structures are planted with native grasses or shrubs. Culverts: 1409 E. Capitol Dr. Planted with Heavy Metal Switchgrass (*Panicum virgatum*). 1400 E Capitol Dr. North side of street on corner of Woodburn Ave. They are planted with Red Twig Dogwood (*Cornus alba*), Heavy Metal Switchgrass (*Panicum virgatum*) and Fireworks Goldenrod (*Solidago*). Shorewood High School: 1701 E. Capitol Dr. Two structures near the football field with Shenandoah Switchgrass (*Panicum virgatum*) and by the corner of Oakland and Capitol that contain New England and Alma Putschke Aster (*Aster novae-angliae*), Karl Foerster Feather Reed Grass (*Calamagrostis x acutiflora*) and Heavy Metal Switchgrass (*Panicum virgatum*).



## 5. Library Raingarden: 3930 N. Murray Ave.

This rain garden was installed in 2005 to help filter parking lot runoff. The garden contains a beautiful variety of native plants including Butterfly Weed (*Asclepias tuberosa*) which is Shorewood's Official Native Plant, Culver's Root (*Veronicastrum virginicum*), Great Blue Lobelia (*Lobelia siphilitica*), Joe Pye Weed (*Eutrochium dubium*), Nodding Pink Onion (*Allium cernuum*), Purple Cone Flower (*Echinacea purpurea*), Smooth Penstemon (*Penstemon digitalis*), Fox Sedge (*Carex vulpinoidea*) and Prairie Dropseed grass (*Sporobolus heterolepis*).



**6. Green Inlets:** There are two green inlets that were installed in 2015 that allow excess runoff to run onto grassy areas to be filtered. One is located in the Atwater parking lot towards the front of the school and the second inlet is located by the Village Hall.



Watch for new Wilson Drive storm water features in 2019

## 7. Biofiltration Structures: Atwater School, 2100 E. Capitol Drive

- There are two structures similar to #4 that are located by the school near Maryland Ave. They contain New England and Alma Putschke Aster (*Aster novae-angliae*) and Shenandoah and Heavy Metal Switchgrass (*Panicum virgatum*).



**8. Biofiltration Structures: Metro Market** - There are two structures in front of the grocery store that contain Iroquois Black Beauty shrub (*Aronia melanocarpa*), Blazing Star (*Liatris spicata*), Little Joe Pye Weed (*Eutrochium dubium*) and Caesar's Brother Siberian Iris.



**9. Green Roof:** In 2015 the Milwaukee Metropolitan Sewerage District helped support the installation of a green roof on top of the Iron Horse building.



**10. Green Alley:** A series of storm drains have been installed in the alley between Kensington and Glendale Ave. to help reduce flooding.



**11. Permeable Pavers:** The crosswalks on Kensington. The permeable pavers allow water to filter into the ground instead of running off like most pavement parking lots and sidewalks.

**12. Native Plants:** - Atwater Park and the slope to the beach and sand dunes. In July of 2010 a major portion of this hill collapsed from a large storm with heavy rains. The entire hill down to the beach has been planted with native plants and shrubs that help stabilize the slope to the beach. The long roots of native plants secure the slope.

