

EPA – Best Management Practices (BMPs)



Residents Acting In Nature preservation

Raingarden

Same function as a bioretention cell but on a smaller scale without the inlets and storm infrastructure. Good for residential applications treating roof water with downspouts directed away from the house foundation to raingarden.

Bioretention Cell

Surface water is directed to the cell. The double shredded mulch traps sediment and debris. The deer resistant natural plantings and a special blend of planting soil with micro-organisms absorb the salts, oils and metals. A filter of geotextile and aggregate further treat the water before it is absorbed in the ground or released into the storm sewers.

Permeable Pavers

Surface water seeps into the spaces between the pavers thru a filter of fine aggregates, geotextile and a coarse aggregate layer and is absorbed by the natural ground. A perforated pipe is placed several inches from the bottom to act as an overflow which outlets to a catch basin and cell.

2" GRAVEL FILTER STRIP

WEST BIORETENTION BASIN

Bioretention Cell with Rain Water Harvesting System

Treated water is stored in manhole tank. A pump supplies treated water for irrigation use. This system stores 575 gallons and has an overflow that permits the treated water back into the storm drains.

Rain Barrels

Collects roof water runoff thru a downspout diverter that diverts the water into the barrel where it is stored for irrigation purposes or car washing. Once the barrel is filled water travels down the downspout as normal.

EAST BIORETENTION BASIN

2" GRAVEL FILTER STRIP

PUBLIC INFORMATION KIOSK (TO BE INSTALLED BY OTHERS)

LEGEND:

	SURFACE WATER FLOW
	UNDERDRAIN

Ideas to treat storm water runoff, minimize erosion through storage & improve the water quality of our creeks, rivers and Lake Erie

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NOT TO SCALE

