



# HOME OWNER ASSOCIATIONS

## STORMWATER MANAGEMENT

Privately owned stormwater facilities are very effective at controlling neighborhood flooding and removing pollutants in the water, but they *need* to be maintained.



# TYPES OF DETENTION BASINS

## DRY BASIN



A dry basin is a detention pond with mowed turf grass in the bottom.

A wet basin is a detention pond that is designed to have a permanent pool of water in addition to the storm water from rain events.

## WET BASIN



## —Typical Maintenance Activities—

- trimming/replanting vegetation
- removal of accumulated trash, debris, and sediment
- unclogging pipes and outfalls
- repairing/stabilizing erosion, cracks, settlements, rodent holes
- repairing structural components
- replacing underdrain or sand filter



# Ways to Help Vegetation Stay Healthy

- **Mowing**
  - Cut no shorter than 6-8 inches
  - Grass on embankments should be cut at least twice during the spring and fall and once during the summer
- **Pest and Weed Control**
  - Reduce the amount of pollutants reaching the facility by avoiding over fertilization and excess pesticide use
- **Removing Small Sediment Deposits**
  - Bare areas should be vigorously raked, backfilled if needed, covered with top soil, seeded and mulched.
- **Unwanted Vegetation**
  - Consistent mowing and monitoring will control any unwanted vegetation
  - Be aware of invasive plant species such as Phragmites, purple loosestrife or autumn
- **“No Mow” Zone**
  - 25 Foot vegetated buffer around the perimeter of wet ponds may be established to filter pollutants from adjacent properties and to help prevent shoreline erosion. The buffer should only be mowed once a year after mid-August.
- **Harmful Activities**
  - Activities that have the potential to damage vegetation, or compact the soil should be avoided near the structure.

## Self Inspection Checklist

Type of Inspection

- Spring
  Fall
  Post Major Storm

Are any pipes entering or exiting the pond cracked, crumbling, broken or showing signs of any other structural deterioration?

- Yes
  No
  N/A

Has sediment collected in the storm sewer and catch basins upstream from the pond?

- Yes
  No
  N/A

Is there evidence of oil, grease or any hazardous materials entering the pond?

- Yes
  No
  N/A

Is there excessive algae growth?

- Yes
  No
  N/A

Are there areas or signs of erosion along the banks of the detention pond?

- Yes
  No
  N/A

Is there a 15-25 foot no-mow and chemical-free buffer zone around the pond? (If yes, corrective action is not necessary.)

- Yes
  No
  N/A

Are there trees or saplings present on the embankment?

- Yes
  No
  N/A

Is there sediment, vegetation, and/or debris in and/or around the inlet or outlet pipe that is obstructing the flow of water?

- Yes
  No
  N/A

Does it appear that sediment, vegetation, and/or debris has accumulated around the riprap, obstructing the flow of water?

- Yes
  No
  N/A

Are animal borrows present?

- Yes
  No
  N/A

Does the fence, gate or other safety devices need repair?

- Yes
  No
  N/A

**NOTE:** A yes to any of these items should result in corrective action or a call to a professional inspector.





**GRASS SHOULD  
BE KEPT  
BETWEEN 6-8" IN  
HEIGHT**



**INLET/OUTLET PIPES  
SHOULD BE KEPT  
CLEAR OF DEBRIS SO  
THAT THE FLOW OF  
STORMWATER IS NOT  
OBSTRUCTED**





**ANY VEGETATION IN FRONT  
OF INLET/OUTLET PIPES  
OBSTRUCTS THE FLOW OF  
STORMWATER AND SHOULD  
BE REMOVED**



**EXAMPLE OF A WELL  
MAINTAINED  
DETENTION BASIN**

# All Homeowner Associations must Report by November 1<sup>st</sup> of Maintenance Activities to the Town Engineer, Kim Wiegand.

(401) 294-3331, Ext. 640

**Self Inspection Checklist**

Type of Inspection:  Spring  Fall  Post Major Storm

**Storm Sewer Systems**

Are any pipes entering or exiting the pond cracked, crumbling, broken or showing signs of any other structural deterioration?  Yes  No  N/A

Is the sediment around the inlet pipes (clogged with sediment and/or debris)?  Yes  No  N/A

Has sediment collected in the storm sewer and catch basins upstream from the pond?  Yes  No  N/A

Has sediment accumulated in and around the inlet pipes?  Yes  No  N/A

Does it appear that sediment, vegetation and/or debris has accumulated around the inlet, slowing the flow of water?  Yes  No  N/A

Is there evidence of oil, grease or other absorbent fluids entering the pond?  Yes  No  N/A

**Detention Pond Vegetation**

Is there excessive algae growth?  Yes  No  N/A

Are there areas or signs of erosion along the banks of the detention pond?  Yes  No  N/A

Is there a 15-25 foot no-mow and chemical-free buffer zone around the pond? (If yes, corrective action is not necessary.)  Yes  No  N/A