Stormwater Management

Silverleaf Management Group, LLC
Importance of Storm Water Management

- *Erosion Control*
Importance of Storm Water Management

- *Flood Prevention*
Importance of Storm Water Management

- Maintain Water Quality
Importance of Storm Water Management

- Protect Communities Down Stream
Pond Classifications: Retention (Wet)

- **Permanent Pools**
- “Retains” Water
- Water Quality Management
- Maintain Acceptable Water Levels
- Can be Community Amenity/Focal Point
- Lower Overall Maintenance Costs
Pond Classifications: Retention (Wet)
Pond Classifications: Detention Pond (Dry)

- Temporary Pools
- Water Quantity
- Flood Control/Rainwater Run-off
- Dedicated Space (Not useable for other purposes)
- Water Quality Control
- Higher Overall Maintenance Costs (Labor etc.)
Pond Classifications: Detention Pond (Dry)
Pond Classifications: In-Stream

- Located in Existing Bodies of Water
- Hard to Approve (County/City/State)
- Difficult/Expensive to Maintain
Pond Classifications: In-Stream
Common Storm Water Elements

- Embankment
- Inlet Control Structure (ICS)
- Trash Rack
- Outlet Control Structure (OCS)
- Spill Way
Common Elements
Routine Maintenance

- Inspections
- Vegetation Removal
- Management of Trash, Debris, and Litter
- Structure Components
Routine Maintenance: Vegetation Management

- **Mow Vegetation on a Regular Basis**
- **Reduce or Discontinue the Use of Fertilizers and Pesticides Inside the Pond**
- **Use Approved Herbicides Around Wetlands and Bodies of Water**
- **Control of Unwanted Woody Vegetation**
- **Control Exotic and Invasive Plants**
Routine Maintenance: Vegetation Management
Routine Maintenance: Why Remove Trees?

- Provide Mosquito Habitat
- Prevent Grass from Growing
- Block the Removal of Silt and Sediment
- Increase Maintenance Costs
- Reduce the Volume of the Pond
Excessive tree growth in pond
Routine Maintenance: Debris and Litter Removal

- Remove Debris and Litter on a Regular Basis
- Check for Obstructions at the Inlet and Outlet Structures
- Check Trash Racks for Blockage
Routine Maintenance: Structural Components

- Maintain Gates, Locks & Fencing
- Remove any Inlet, Outlets, Entry/Exit point Obstructions
- Clear Trash Racks
Typical Obstructions
Thank You!

Silverleaf Management Group, LLC