



ecoStorm[®] maintenance program

The ecoStorm[®] Stormwater Treatment System has an ongoing maintenance requirement that includes routine inspections and cleanings, which help ensure proper performance and treatment efficiency. The rate at which the system collects pollutants is based more on the on-site activities than on the size of the unit. For instance, heavy winter sanding causes the system to accumulate sediment quickly, and regular sweeping reduces the volume of material captured.

Inspection procedure

Periodic inspection is necessary to determine the frequency of maintenance. In the first year of operation, Royal Environmental Systems recommends quarterly inspections. The inspection schedule can then be modified in subsequent years based on previous observations or to meet specific stormwater permit requirements. Typically, the system needs to be cleaned once every 12 months.

During routine inspections, sediment accumulation is most easily determined by slowly lowering a measuring stick into the sediment storage area until it contacts the top of the sediment pile. When the top of the sediment pile is within 42" of the water surface, the system is full and should be cleaned.

Cleanout procedure

A vacuum truck generally provides the best and most convenient method for cleaning the ecoStorm. The manhole covers are conveniently located for removing captured contaminants. The entire sediment storage area can be reached with a vacuum hose from the surface, thereby eliminating the need for confined space entry. The oil and floatable trash should be removed from the surface prior to submerging the hose to remove the accumulated sediments. All manhole covers should be securely seated following cleaning activities.

The polluted water, oils, sediments and trash removed from the ecoStorm must be handled and disposed of in accordance with local and state requirements.