

Wisconsin
Engineering Standard and Specifications
for
Sediment DEBRIS BASIN
350-68

Definition

A barrier or dam constructed across a waterway or at other suitable locations to form a silt or sediment basin.

Purpose

To preserve the capacity of reservoirs, ditches, canals, diversions, waterways and streams and to prevent undesirable deposition on bottomlands, and other developed areas, by providing basins for the deposition and storage of silt, sand, gravel, stone and other detritus.

Conditions Where Practice Applies

This practice applies where physical conditions or land ownership preclude the treatment of the sediment source by the installation of erosion control measures to keep soil and soil material in place.

Design Criteria

The capacity of a debris basin shall equal the volume of sediment expected to be trapped at the site during the planned useful life of the structures or improvements it is designed to protect. Where it is determined that periodic removal of debris will be practicable, the capacity may be proportionately reduced.

The design of dams, spillways and drainage facilities shall be in accordance with the Engineering Standard and Specifications for Farm Ponds (378), Grade Stabilization Structure (410) or Engineering Memorandum-27 (Rev.), as appropriate for the class and kind of structure being considered.

Specifications

All construction operations such as clearing, excavations, fills, concrete work, and conduit installations shall be accomplished in the manner prescribed in the applicable Wisconsin Construction Specification.