

Well and Onsite Wastewater Facts

WASTEWATER TECHNOLOGY

FSN - 12

Loudoun County Health Department

July 2016

Component Type: Treatment/Dispersal

Function: A Mound is used as an intermittent sand filter to treat wastewater and to disperse effluent thru the natural soil. It is often used in high groundwater situations. Some of the water is removed through evapotranspiration.

Manufacturers: The Wisconsin Mound (developed at the University of Wisconsin) is not manufactured, the Aquarobic Mound is patented, was experimental in VA and is currently not being permitted.

First approved in Virginia: 1982

Number installed in Loudoun County: 49

Allowance to reduce dispersal field footprint: Yes

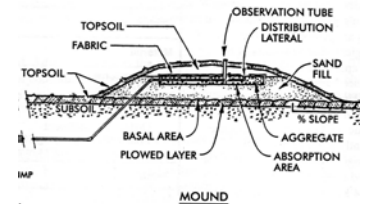
Description of Use

The system is constructed by placing the sand media on top of the natural surface and constructing a distribution system at the top of the mound using PVC pipe. Sometimes the pipe is replaced by drip tubing allowing the mound to be lower. Treatment is provided just as a sand filter. Distribution is provided evenly under the surface of the mound. Evapotranspiration takes place as the water is drawn to the surface through the trees, grasses, or pores in the soil.

Recommended Maintenance Required

Maintenance of the mound is minimal. Where trees are required, they need to be replaced when they die off. Erosion must not be allowed to occur. Where dosing occurs the rate should be checked once a homeowner moves in and twice a year thereafter. The pretreatment method and specific drip dispersal method will drive the operation, maintenance and monitoring of the system.

Mounds



Cross section



Installed