Innovative/Alternative System Approval
General Use per §1-1001 of the
Wastewater System and Potable Water Supply Rules, September 29, 2007

Interim Guidance for Presby EnviroSeptic pipe

Issued June 22, 2010 Roger Thompson Jr

Based on recent discussion with the Technical Advisory Committee the Agency of Natural Resources is issuing this guidance related to the maximum allowable width of a bed type system when used in a mound system.

The existing Wastewater System and Potable Water Supply Rules prohibit the use of bed type leachfields that are wider than 10'. This limitation is based on the following two concerns. The first is the lack of oxygen transfer under wide systems and the second is potential hydraulic overloading at the toe of the mound.

Both of these limitations may now be overcome. An acceptable solution to the first limitation is to provide a ventilation system such as is required in the current Innovative/Alternative approval for EnviroSeptic Pipe. An acceptable solution to the second limitation is to base the design on a hydrogeologic evaluation. This evaluation is required whenever the linear loading rate, measured along the downslope edge of the leachfield within the mound system exceeds 10 gallons per linear foot and the naturally occurring site limitations are sufficient for a prescriptive mound system. A linear loading rate of more than 10 gallons per linear foot may be approved if the hydrogeologic analysis supports a higher linear loading rate.

Specific guidance for EnviroSeptic Pipe

A bed width, as determined by the width of "system sand" exceeding 10' may be approved when:

1. The system includes the ventilation system required in the current approval; and

2. The linear loading rate is no more than 10 gallons per linear foot per day when the site limitations allow for a prescriptive mound design; or

3. The linear loading rate is more than 10 gallons per day per linear foot but is supported by a hydrogeologic analysis and the elevation of the EnviroSeptic piping will comply with the required minimum vertical separation above the induced groundwater mounding.

4. Sites not meeting the requirements for a prescriptive mound will be evaluated using the performance based design approach, and may, if supported by the hydrogeologic analysis, use linear loading rates exceeding 10 gallons/day/linear foot provided the elevation of the EnviroSeptic piping will comply with the required minimum vertical separation above the induced groundwater mounding and they are vented as required in the current approval.

5. The linear loading rate is based on the length of EnviroSeptic Pipe plus a maximum of 2' of system sand at the ends of the pipe.