VERMONT

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Agency of Natural Resources

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

Approval Number 2004-02-R4
Approval Date January 18, 2017

Vendor Information
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Technology Name
Advanced Enviro-Septic® (AES);
Enviro-Septic® (ES) and
Simple Septic® (SS) Pipe Leaching System

Technology Type
Gravelless Pipe Distribution System
for Septic Tank Effluent

Expiration Date
February 23, 2019

Approval

The Advanced Enviro-Septic® (AES), the Enviro-Septic® (ES), and the Simple Septic® (SS) Pipe Leaching Systems may be used as part of a subsurface wastewater disposal system approved under the Wastewater System and Potable Water Supply Rules, effective September 29, 2007 (Rules) under the following conditions:

1. The pipe leaching systems must be designed, installed and operated as described in the Vermont Design and Installation Manual, dated July 2014, filed with the Agency of Natural Resources (Agency).

2. This approval is based on treatment only of domestic wastewater of low and moderate strength as specified in §1-915(a)(1)(C) & (D) of the Rules. No high strength wastewater shall be dispersed using this technology. An AES, ES and SS Pipe Leaching Systems shall not be used as a filtrate effluent disposal system.

3. The system may be used for both new and replacement systems.

4. If the Rules are revised during the term of this approval, this approval shall be revised as needed to conform to the revisions.

5. The Licensed Designer (Designer) shall provide a copy of this approval letter to any landowner who is a prospective purchaser of an AES, ES or SS Pipe Leaching System prior to the sale of the system and prior to the filing of any application for a site-specific approval by the Agency for the purchaser's property. The application filed with the Agency shall include the landowner's written acknowledgement of this approval letter. Prior to any sale of the property or completion of a sales agreement to sell the property, a copy of the site-specific permit shall be provided to the prospective purchaser.

6. When a project is subject to the Rules, site-specific permission for the use of this product is required in the form of a Wastewater System – Potable Water Supply Permit.

7. A site-specific permit for the use of this product may be revoked if the system fails to function properly. Revocation of the permit will require that the use of the building be discontinued unless another wastewater disposal system is installed based on prior written approval by the Agency.

8. This approval is not a representation or guarantee of the effectiveness, efficiency or operation of an AES, ES or SS Pipe Leaching System.

9. Serial distribution shall be limited to 100 feet of pipe along the contour and 500 feet total.

10. The Advanced Enviro-Septic® (AES) pipe is comprised of corrugated, perforated plastic pipe, Bio-Accelerator® fabric along its bottom which is surrounded by a layer of randomized plastic fibers and a sewn geo-textile fabric which provides over 40 sq. ft. of total surface area. The Enviro-Septic® (ES) pipe is comprised of corrugated, perforated plastic pipe which is surrounded by a layer of randomized plastic fibers and a sewn geo-textile fabric which provides over 25 sq. ft. of total surface area. The Simple Septic® (SS) pipe is comprised of corrugated plastic pipe which is surrounded by a single layer of sewn geo-textile fabric which provides over 15 sq. ft. of total surface area. The limited surface area of the SS as compared with the AES and ES may result in a shorter lifespan than the AES and ES pipe leaching systems.

Landowner Requirements

1. A copy of the permit shall be provided to any prospective purchaser prior to the sale.

2. Each new landowner of the property shall inform the appropriate Regional Environmental Office of the Agency within 30 days of the transfer of the property and include the name and mailing address of the new owner.

Vendor Requirements

1. The vendor shall submit an annual report to the Agency by April 1 of each year containing the following information for the 12-month period ending December 31 of the previous year:

   A. New permitted systems installed in Vermont for the previous year and shall include:
      i. Assigned Wastewater Permit Number;
      ii. Physical and landowner mailing addresses;
      iii. Name of current landowner;
      iv. Name of Designer providing the installation certification; and
      v. Name of installer.

   B. Existing permitted systems with known changes in ownership shall include the Wastewater Permit Number; the physical and mailing address, and the name of the current landowner.

   C. All known problems, damages and/or failures, including:

      i. Description of the issues;
      ii. Potential/known causes of problems;
      iii. System operability;
      iv. Recommended repair/remediation;
      v. Date(s) of repair/remediation; and
      vi. System effectiveness.

      Note: Repairs that are not defined by the Rules as a "Minor Repair" require approval by the Division prior to making the repair.

   D. A list of names of Designers and Installers trained by the vendor.

2. The vendor shall train and certify Designers and installers in the proper use and installation of the AES, ES or SS pipe leaching systems.

Design and Review Conditions

The following conditions will be used by the Agency in reviewing permit applications that include an Advanced Enviro-Septic®, Enviro-Septic®, or Simple Septic® Pipe Leaching System:

Design and Application

1. The Designer shall specify which pipe leaching system is to be installed; the Advanced Enviro-Septic®, Enviro-Septic®, or Simple Septic® Pipe Leaching System;

2. The leaching system shall be designed in accordance with the approved Vermont Design and Installation Manual.

3. The designer shall assure that the system will properly function in all seasons.

4. The designer must assess the ventilation path for the particular application and make any necessary provisions to assure proper flow and control of odor emissions.

5. The designer shall provide the landowner with written guidance on the maintenance requirements and homeowner responsibilities in the care and use of an onsite wastewater system according to the AES, ES or SS pipe leaching system requirements for use of the product.

6. The designer shall include in the design a septic tank effluent filter with easy access for inspection and cleaning.

Installation Inspection

1. The specified pipe leaching system shall be installed in accordance with the approved plans and under the instruction and guidance of an installer/inspector trained by the vendor.

2. The leaching system shall be inspected by a Licensed Class 1 Designer or a Licensed Class B Designer, approved by the Vendor, during installation of the system and installation of all tanks before backfilling, and after backfilling and grading is complete. The inspection shall include checking for levelness of the pipes, and inspecting for damage and proper assembly. The Designer shall inspect all transport piping for proper installation and watertightness before backfilling.

3. A letter certifying that the system is correctly installed (including the language specified in §1-308 of the Rules) shall be provided electronically to the vendor and the approving Regional Office that issued the permit.

4. It is acceptable to substitute AES for specified ES or SS pipe; or to substitute ES for specified SS pipe for permitted wastewater designs. The above described substitutions may be accomplished in the installation certification and record drawing. All other substitutions require a Wastewater System and Potable Water Supply Permit amendment.

Permitting

1. The permit shall run with the land.

Effective Date: February 23, 2017

By Ernest Christianson
Ernest Christianson
Regional Office Program Manager