

Commonwealth of Pennsylvania
Department of Environmental Protection (DEP)
Bureau of Point and Non-Point Source Management
Harrisburg, PA

Issued to: Generic Listing

Technology: Greywater Systems

Classification Type: Alternate technology (A2014-0018-0002)

Classification Date: February 6, 2004 (ASG)
February 24, 2014

In accordance with Title 25, Chapter 73, Section 73.72, DEP classifies the greywater system as a design method for use as a part of an alternate onlot sewage treatment system.

I. Technology Description

The treatment of greywater requires the same methods of sewage disposal used in soil-based onlot disposal systems. Occasionally, the applicant may wish to separate “blackwater” (domestic human waste) from “greywater” (washwater, etc.) in order to reduce the amount of absorption area needed. The use of “blackwater” treatment systems such as composting, chemical, recycling and incinerating toilets or privies (proposed in conjunction with water under pressure), must meet the requirements described in this listing for the treatment of greywater.

II. Design Requirements

- A. Location: The greywater system may be installed for the treatment of domestic strength wastewater (as defined by Table 1 of Miscellaneous Data to be used in Conjunction with PA DEP listings) serving a new construction or as a repair.
- B. Tank installations must consist of either a two-compartment rectangular tank, two rectangular tanks in series, and otherwise conform to meet the requirements of Section 73.31. Vertically aligned circular (round) tanks are not permitted. Aerobic treatment tanks must be in compliance with Section 73.32.
- C. Use of the Component/System and Siting Requirements:
 - (1) An onlot system meeting Chapter 73 standards or other classified method of sewage disposal must be installed to treat greywater flow from the structure.
 - (2) The absorption area may be reduced by up to 40 percent for the use of a non-flush toilet alternative. No reduction of septic tank sizing is allowed.
 - (3) When a blackwater treatment system is proposed for use in conjunction with a greywater system in a subdivision, the provisions of Chapter 71, Section 71.63(f)(1) apply. The site and soil suitability testing must be sufficient to document the availability of an area for a full-sized system.
- D. Installation: An onsite preconstruction conference attended by the sewage enforcement officer, designer, installer, and the property owner prior to construction is recommended.

III. Minimum Maintenance Standards

- A. The manufacturer's representative must meet with the property owner within one (1) month of system start-up and/or occupancy of the dwelling and with the local agency's SEO upon request, to explain the operation and maintenance of the system, provide written instructions to the property owner, and to identify the locations of all parts of the system.
- B. The service provider shall inspect at least the following items at an interval frequency recommended by the manufacturer's requirements:
 - (1) Inspect septic tanks, dosing tanks, and lift pump tanks for structural integrity of the tank, inlet and outlet baffles, solids retainer, pumps, siphons, and electrical connections;
 - (2) Inspect aerobic tanks for structural integrity of the tank, inlets, and outlet baffles, buoyed solids retainer, pumps, siphons, and electrical connections.
- C. The service provider shall inspect and pump excess solids in accordance with the manufacturer's requirements.

IV. Permitting Requirements

- A. A sewage enforcement officer may independently review the design and issue the permit for components under this listing. All other proposals under this listing must be submitted to the Department for review and comment.
- B. The sewage enforcement officer shall include on both the *Application for An Onlot Sewage Disposal* permit (Part III, Section 1) and the permit, the classification number itemized in the Classification Type of this listing.

V. Planning Requirements

If planning is required, general soil and site suitability must be conducted in accordance with Chapter 71, Section 71.62.