NSF/ANSI 40 – 2004
Addendum 1.0 – 2004

Residential wastewater treatment systems

NSF International Standard/
American National Standard

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Addendum 1.0 – 2004

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Chair, Joint Committee on Wastewater Technology
c/o NSF International
789 North Dixboro Road, P.O. Box 130140
Ann Arbor, Michigan 48113-0140 USA
Phone: (734) 769-8010
Telex: 753215 NSF INTL
FAX: (734) 769-0109
E-mail: info@nsf.org
Web: http://www.nsf.org

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NSF International Standard/
American National Standard
for Wastewater Technology —

Residential wastewater treatment systems

Standard Developer
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Foreword[2]

The purpose of this Standard is to establish minimum materials, design and construction, and performance testing and evaluation requirements for residential wastewater treatment systems. This Standard specifies minimum literature requirements to be supplied by manufacturers to authorized representatives and owners. Minimum service related obligations for manufacturers to extend to owners are also specified.

This addendum to the Standard (NSF/ANSI 40 – 2004) includes the following changes:

– Section 1.2, Scope now includes Bottomless systems.

– The definition for wash load, including a temperature requirement, has been added to Definitions.

– Additional clarification in representative effluent sampling has been incorporated into Section 5.7, Access ports and Section 8.3, Sample collection.

– A note has been added to section 8.2.2.1, Design loading to specify the maximum individual dose permitted during a dosing period.

This Standard was developed by the NSF Joint Committee on Wastewater Technology using the consensus process described by the American National Standards Institute.

ANSI prohibits the inclusion of commercial terms and conditions, such as manufacturers' warranties and guarantees, in product standards. However, the NSF Joint Committee on Wastewater Technology has historically believed strongly that all certifiers of ANSI/NSF 41 systems should have certification program policies that contain several key elements, including requirements for warranties. It is the Joint Committee's belief that these key elements provide valuable assurance of long-term performance as well as protection of public health and the environment. To emphasize the Joint Committee's convictions on this issue, two annexes, which are not part of this Standard, are included for informational purposes and guidance. These annexes are intended to establish a uniform program by which products meeting the scope of this Standard should be certified. Annex A provides the key elements of a certification program, and annex B is a sample warranty. At NSF, both annexes have been adopted as ANSI/NSF 41 certification program policies.

Suggestions for improvement of this Standard are welcome. Comments should be sent to Chair, Joint Committee on Wastewater Technology, c/o NSF International, Standards Department, PO Box 130140, Ann Arbor, Michigan 48113-0140, USA.

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Revisions to NSF/ANSI 40 – 2004 are shown in this addendum as ~~crossouts~~ for deletions and highlights for additions.

NSF/ANSI Standard
for Wastewater Treatment Systems —

Residential wastewater treatment systems

1 General

1.1 Purpose

The purpose of this Standard is to establish minimum materials, design and construction, and performance requirements for residential wastewater treatment systems. This standard also specifies the minimum literature that manufacturers shall supply to authorized representatives and owners as well as the minimum service-related obligations that manufacturers shall extend to owners.

1.2 Scope

This Standard contains minimum requirements for residential wastewater treatment systems having ~~single, defined discharge points and~~ rated treatment capacities between 1514 L/day (400 gal/day) and 5678 L/day (1500 gal/day). Management methods for the treated effluent discharged from residential wastewater treatment systems are not addressed by this Standard.

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3 Definitions

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3.10 Wash Load: The discharge from a residential clothes washer or clothes washer simulator. A wash load consists of 1 wash and 2 rinse cycles completed within 45 minutes. Powdered laundry detergent and powdered non-chlorine bleach are included in each wash load. The detergent and bleach are added at the rates specified on the detergent and bleach packaging for a single large wash load. Each cycle consists of 45.4 +/- 3.8 liters (12 +/- 1 gallons) of water. Wash and rinse temperature shall be between 20 and 30 °C (68 and 86 °F).

3.1~~0~~1 7-day (7 -d) average: The average of daily measurements over a calendar week, calculated as the sum of all daily measurements taken during a calendar week divided by the number of daily measurements taken during that week.

3.1~~1~~2 30-day (30-d) average: The average of daily measurements over a calendar month calculated as the sum of all daily measurements taken during a calendar month divided by the number of daily measurements taken during that month.

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