



On-site domestic wastewater treatment units

Part 3: Secondary treatment systems



This Australian Standard® was prepared by Committee WS-040, On-site Domestic Wastewater Treatment. It was approved on behalf of the Council of Standards Australia on 27 January 2017.

This Standard was published on 16 February 2017.

The following are represented on Committee WS-040:

- Association of Accredited Certification Bodies
 - Association of Rotational Moulders Australasia
 - Australian Building Codes Board
 - Australian Chamber of Commerce and Industry
 - Australian Industry Group
 - Australian Local Government Association
 - Australian Wastewater Treatment Association
 - Certification Interests (Australia)
 - Department of Housing and Public Works QLD
 - Engineers Australia
 - Environmental Health Professionals Australia
 - Environment Protection Authority Victoria
 - Independent Expert
 - Master Plumbers Australia
 - National Precast Concrete Association Australia
 - National Recycled Water Regulators Forum
 - NSW Ministry of Health
 - SA Health
 - University of Technology, Sydney
 - Victoria University
 - Waste Management Association of Australia
 - Water Services Association of Australia
-

This Standard was issued in draft form for comment as DR AS 1546.3:2015.

Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

Keeping Standards up-to-date

Australian Standards® are living documents that reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued.

Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments that may have been published since the Standard was published.

Detailed information about Australian Standards, drafts, amendments and new projects can be found by visiting www.standards.org.au

Standards Australia welcomes suggestions for improvements, and encourages readers to notify us immediately of any apparent inaccuracies or ambiguities. Contact us via email at mail@standards.org.au, or write to Standards Australia, GPO Box 476, Sydney, NSW 2001.

AS 1546.3:2017
(Incorporating Amendment No. 1)

Australian Standard[®]

**On-site domestic wastewater treatment
units**

Part 3: Secondary treatment systems

Originated in Australia and New Zealand as AS/NZS 1546.3:2001.
Previous edition AS/NZS 1546.3:2008.
Revised and redesignated as AS 1546.3:2017.
Reissued incorporating Amendment No. 1 (December 2018).

COPYRIGHT

© Standards Australia Limited

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher, unless otherwise permitted under the Copyright Act 1968.

Published by SAI Global Limited under licence from Standards Australia Limited, GPO Box 476, Sydney, NSW 2001, Australia

ISBN 978 1 76035 674 3

PREFACE

This Standard was prepared by the Standards Australia Committee WS-040, On-site Domestic Wastewater Treatment, to supersede AS/NZS 1546.3:2008, *On-site domestic wastewater treatment units, Part 3: Aerated wastewater treatment systems*.

This Standard incorporates Amendment No. 1 (December 2018). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.

After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian Standard rather than an Australian/New Zealand Standard.

The objective of this Standard is to set out requirements for the design, commissioning, performance and compliance testing of secondary treatment systems and advanced secondary treatment systems (STS) designed to treat domestic wastewater. The design hydraulic treatment capacities that may be tested in accordance with this Standard range from a minimum of 1200 L/d to a maximum of 5000 L/d. Guidance on installation, operation and maintenance is also provided.

This Standard is part of the AS/(NZS) 1546 series for on-site domestic wastewater treatment units, as follows:

AS

- 1546 On-site domestic wastewater treatment units
- 1546.3 Part 3: Secondary treatment systems (this Standard)
- 1546.4 Part 4: Domestic greywater treatment systems

AS/NZS

- 1546.1 Part 1: Septic tanks
- 1546.2 Part 2: Waterless composting toilets

In this revision, the scope of the standard has been broadened to include all types of secondary treatment systems; the design requirements have been reviewed for clarity; terms and definitions have been updated to reflect current practice; and the testing regime has been made more stringent and specified in greater detail to ensure uniformity and reproducibility in testing, and to be in alignment with international best practice.

This Standard includes Commentary on some of the Clauses. The Commentary directly follows the relevant Clause, is designated by 'C' preceding the Clause number and is printed in italics in a box. The Commentary is for information and guidance and does not form part of the Standard.

The terms 'normative' and 'informative' have been used in this Standard to define the application of the appendices to which they apply. A 'normative' appendix is a mandatory part of a Standard, whereas an 'informative' appendix is only for information and guidance.

Statements expressed in mandatory terms in Notes to Figures and Tables are deemed to be requirements of this Standard.

CONTENTS

	<i>Page</i>
SECTION 1 SCOPE AND GENERAL	
1.1 SCOPE OF STANDARD.....	4
1.2 INCLUSIONS.....	4
1.3 EXCLUSIONS.....	4
1.4 OBJECTIVES.....	5
1.5 INTERPRETATION.....	5
1.6 APPLICATION.....	5
1.7 NORMATIVE REFERENCES.....	5
1.8 DEFINITIONS.....	6
1.9 TEST REQUIREMENTS.....	10
1.10 ABBREVIATIONS.....	11
SECTION 2 PERFORMANCE CRITERIA AND DESIGN REQUIREMENTS	
2.1 SCOPE OF SECTION.....	12
2.2 PERFORMANCE CRITERIA.....	12
2.3 DESIGN REQUIREMENTS.....	15
2.4 ELECTRICITY CONSUMPTION.....	22
2.5 INSTALLATION.....	22
2.6 OPERATION AND MAINTENANCE.....	22
SECTION 3 MARKING OF SECONDARY TREATMENT SYSTEMS	
3.1 SCOPE OF SECTION.....	23
3.2 REQUIREMENTS.....	23
SECTION 4 INFORMATION TO BE PROVIDED WITH AN STS	
4.1 SCOPE OF SECTION.....	24
4.2 STS DOCUMENTATION.....	24
SECTION 5 EVALUATION OF PRODUCT CONFORMITY	
5.1 SCOPE OF SECTION.....	26
5.2 PRODUCT CONFORMITY.....	26
APPENDICES	
A PRODUCT CONFORMITY EVALUATION REQUIREMENTS FOR INITIAL TYPE TESTING.....	27
B DISINFECTION SYSTEMS.....	43
C INSTALLATION.....	46
D OPERATION AND MAINTENANCE.....	49
E PRODUCT CONFORMITY EVALUATION—ONGOING PRODUCTION CONTROL.....	52
BIBLIOGRAPHY.....	54

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- [Looking for additional Standards? Visit Intertek Inform Infostore](#)
 - [Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation](#)
-