

AS/NZS 5667.12:1999

ISO 5667-12:1995

Reconfirmed 2016

Australian/New Zealand Standard™

---

**Water quality—Sampling**

**Part 12: Guidance on sampling  
of bottom sediments**

---

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EV/8, Methods for Examination of Waters. It was approved on behalf of the Council of Standards Australia on 18 September 1998 and on behalf of the Council of Standards New Zealand on 22 January 1999. It was published on 5 March 1999.

---

The following interests are represented on Committee EV/8:

Australian Chamber of Commerce and Industry  
Australian Institute of Marine Science  
Australian Water and Waste Water Association  
Australian and New Zealand Environment and Conservation Council  
Griffith University, Australia  
Minerals Council of Australia  
National Association of Testing Authorities, Australia  
National Health and Medical Research Council, Australia  
Plastics and Chemicals Industry Association, Australia  
Queensland Health Scientific Services

---

**Review of Standards.** To keep abreast of progress in industry, Joint Australian/New Zealand Standards are subject to periodic review and are kept up to date by the issue of amendments or new editions as necessary. It is important therefore that Standards users ensure that they are in possession of the latest edition, and any amendments thereto.

Full details of all Joint Standards and related publications will be found in the Standards Australia and Standards New Zealand Catalogue of Publications; this information is supplemented each month by the magazines 'The Australian Standard' and 'Standards New Zealand', which subscribing members receive, and which give details of new publications, new editions and amendments, and of withdrawn Standards.

Suggestions for improvements to Joint Standards, addressed to the head office of either Standards Australia or Standards New Zealand, are welcomed. Notification of any inaccuracy or ambiguity found in a Joint Australian/New Zealand Standard should be made without delay in order that the matter may be investigated and appropriate action taken.

STANDARDS AUSTRALIA

---

**RECONFIRMATION**

**OF**

**AS/NZS 5667.12:1999**

**Water quality—Sampling**

**Part 12: Guidance on sampling of bottom sediments**

---

**RECONFIRMATION NOTICE**

Technical Committee EV-008 has reviewed the content of this publication and in accordance with Standards Australia procedures for reconfirmation, it has been determined that the publication is still valid and does not require change.

Certain documents referenced in the publication may have been amended since the original date of publication. Users are advised to ensure that they are using the latest versions of such documents as appropriate, unless advised otherwise in this Reconfirmation Notice.

Approved for reconfirmation in accordance with Standards Australia procedures for reconfirmation on 27 July 2016.

The following are represented on Technical Committee EV-008:

Australian Water Association  
Chem Centre  
Environmental Laboratory Industry Group  
EPA South Australia  
Griffith University  
National Association of Testing Authorities Australia  
National Environment Protection and Heritage Council  
Sydney Water Corporation

This is a free 7 page sample. Access the full version online.

NOTES

Australian/New Zealand Standard™

---

**Water quality—Sampling**

**Part 12: Guidance on sampling  
of bottom sediments**

---

First published as AS/NZS 5667.12:1999.

Published jointly by:

Standards Australia  
1 The Crescent,  
Homebush NSW 2140 Australia

Standards New Zealand  
Level 10, Radio New Zealand House,  
155 The Terrace,  
Wellington 6001 New Zealand

## PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EV/8, Methods for Examination of Waters. This Standard is identical with and has been reproduced from ISO 5667-12:1995, *Water quality—Sampling, Part 12: Guidance on sampling of bottom sediments*.

This is Part 12 in a series of Standards on the sampling of waters, waste waters, sediments and sludges. The objective of this series of Standards is to provide parties interested in monitoring and sampling with guidance, including guidance on the design of sampling programs, sampling techniques, preservation, handling and transport of samples for the purposes of process control, quality characterization, identification of sources of pollution, compliance with water quality guidelines or standards, and other activities. This Part of the series provides detailed principles to be applied to sampling of sedimentary materials from inland rivers and streams; lakes and similar standing bodies; and estuarine and harbour areas.

The term ‘informative’ has been used in this Standard to define the application of the annex to which it applies. An ‘informative’ annex is only for information and guidance.

As this Standard is reproduced from an international Standard, the following applies:

- (a) Its number appears on the cover and title page while the International Standard number appears only on the cover.
- (b) In the source text, ‘this International Standard’ should read ‘this Australian/New Zealand Standard’.
- (c) A full point substitutes for a comma when referring to a decimal marker.

References to international Standards should be replaced by equivalent Australian, New Zealand or Australian/New Zealand Standards, as follows:

<i>Reference to International Standard</i>		<i>Australian, New Zealand or Australian/New Zealand Standard</i>	
ISO		AS/NZS	
2602	Statistical interpretation of test results—Estimation of the mean—Confidence interval	—	
2854	Statistical interpretation of data—Techniques of estimation and tests relating to means and variances	—	
5667	Water quality—Sampling	5667	Water quality—Sampling
5667-1	Part 1: Guidance on the design of sampling programmes	5667.1	Part 1: Guidance on the design of sampling programs, sampling techniques and the preservation and handling of samples
5667-3	Part 3: Guidance on the preservation and handling of samples		
9391	Water quality—Sampling in deep waters for macro-invertebrates—Guidance on the use of colonization, qualitative and quantitative samplers	—	
10381	Soil quality—Sampling	—	
10381-6	Part 6: Guidance on the collection, handling and storage of soil for the assessment of aerobic microbial processes in the laboratory	—	

## CONTENTS

	<i>Page</i>
1 Scope .....	1
2 Normative references .....	1
3 Definitions .....	1
4 Sampling equipment .....	2
5 Sampling procedure .....	6
6 Composite samples .....	8
7 Storage, transport and stabilization of samples .....	9
8 Safety .....	10
9 Statistical considerations of sampling .....	10
10 Sample identification and records .....	10
<b>Annexes</b>	
A Description of the scissor-grab system (van Veenhapper type) ...	12
B Description of the piston drill system .....	14
C Description of the corer system involving a diver .....	16
D Description of the Beeker sampler system .....	17
E Description of the sealed core sampler system .....	20
F Description of the wedge core or Vrijwit drill system .....	22
G Description of the falling bomb system .....	24
H Description of the Jenkins mud sampler system .....	26
J Description of the Craib corer system .....	28
K Description of a piston corer .....	30
L Description of peat borers .....	32
M Bibliography .....	34

## © Copyright – STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Users of Standards are reminded that copyright subsists in all Standards Australia and Standards New Zealand publications and software. Except where the Copyright Act allows and except where provided for below no publications or software produced by Standards Australia or Standards New Zealand may be reproduced, stored in a retrieval system in any form or transmitted by any means without prior permission in writing from Standards Australia or Standards New Zealand. Permission may be conditional on an appropriate royalty payment. Australian requests for permission and information on commercial software royalties should be directed to the head office of Standards Australia. New Zealand requests should be directed to Standards New Zealand.

Up to 10 percent of the technical content pages of a Standard may be copied for use exclusively in-house by purchasers of the Standard without payment of a royalty or advice to Standards Australia or Standards New Zealand.

Inclusion of copyright material in computer software programs is also permitted without royalty payment provided such programs are used exclusively in-house by the creators of the programs.

Care should be taken to ensure that material used is from the current edition of the Standard and that it is updated whenever the Standard is amended or revised. The number and date of the Standard should therefore be clearly identified.

The use of material in print form or in computer software programs to be used commercially, with or without payment, or in commercial contracts is subject to the payment of a royalty. This policy may be varied by Standards Australia or Standards New Zealand at any time.

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

**AS/NZS 5667.12 : 1999 : EN : COMBINED PDF**

- 
- ⊙ Looking for additional Standards? Visit SAI Global Infostore
  - ⊙ Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
- 

Need to speak with a Customer Service Representative - Contact Us