



# E-Institute

Official Newsletter of IPA

## A new standard:

After a couple of false starts and too many years we finally have an Australian Standard that provides some guidance for the design, installation and commissioning of forced circulation heated water systems. The amended draft standard *AS/NZS3500.4 Heated water services* is now open for public comment together with other drafts listed below and on [www.standards.org.au](http://www.standards.org.au).

As the project proposer the IPA has a particular interest in the amendment of *AS/NZS3500.4 Heated water services* and thanks the Members, Industry Experts and Institute Supporters for their contribution and dedication over a long and often frustrating period to, for the first time, add minimum standards for circulatory piping systems.

The IPA urges all members and readers to take this unique opportunity of having a say on how plumbing is installed and regulated through providing comment to draft standards. It is preferred that all comments on draft standards are made direct to Standards Australia through their online comment form, where circumstance dictates the IPA will accept comments but those comments will be used or included in IPA general comments.

As always, the IPA is open to receiving comments and/or suggestions at any time for improving modern plumbing systems for the benefit of the public, we will use your input to inform discussion on standards, regulation, design and research. As a professional institute the IPA does not comment on commercial, contractual or business matters.

Although many of you will have seen this direct from the ABCB it is worth copying again considering the problems in the marketplace were modern plumbing systems are increasingly stressed due to having outstripped current training, standards, regulations and compliance that have failed to keep up with progress.

Dear WaterMark Certification Scheme Stakeholder

The improved WaterMark Certification Scheme commenced **progressive implementation from 1 August 2017**.

The improved Scheme has been developed following a review of the previous Scheme by the ABCB in 2014 and a decision by the Building Ministers Forum in 2015 to amend the Scheme to improve its effectiveness.

Key features of the improved Scheme include:

a single-level of certification for all products evaluated to prescriptive requirements

consolidation of the Scheme Rules and other reference documents into a single document titled the Manual for the WaterMark Certification Scheme

a revised and tightened risk assessment process

greater alignment of the scope and objectives of the Scheme with mission and objectives of the ABCB and the Plumbing Code of Australia.

The [Manual for the WaterMark Certification Scheme](#) details the operating structure of the improved Scheme, and the process and procedural requirements for the certification of plumbing and drainage products. The Manual includes the Rules for the WaterMark Certification Scheme and the Approved Certifier and Approved User Agreements, as approved by the Australian Competition and Consumer Commission, as well as the Protocol for the Assessment of Risks of Plumbing Products and the Protocol for Developing Product Specifications.

The improved Scheme will be implemented over a period of time to allow for industry adjustment, including transition arrangements for existing Approved Certifiers, Approved Users and certified products affected by changes to the Scheme. Details of the transition arrangement are provided in [Notice of Direction 2017/3.0 – Improved WaterMark Certification Scheme Transition Arrangements](#).

*It is important to note the existing WaterMark Scheme Rules remain current in whole or in part until progressive implementation of the improved Scheme has been completed.*

The ABCB will continue to engage with representatives of stakeholder groups as we progress towards full implementation of the improved Scheme.

Please feel free to forward this email to other interested parties.

Regards

**WaterMark Administration**

**Australian Building Codes Board**

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**GPO Box 2013**

**Canberra ACT 2601**

Website: [www.abcb.gov.au](http://www.abcb.gov.au)

ABN 74 599 608 295



**WATER, SANITATION,  
HYGIENE & HEALTH**

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NEWSLETTER

## New publication - Potable reuse: Guidance for producing safe-drinking-water



This document describes how to apply appropriate management systems to produce safe drinking-water from municipal wastewater. Information is provided on specific aspects of potable reuse, including the quality and protection of source wastewaters, types of control measure monitoring and public acceptance. Application of potable reuse is also illustrated through a number of case studies. This document was launched on 19 July at the Singapore International Water Week Spotlight 2017: [http://www.who.int/entity/water\\_sanitation\\_health/publications/potable-reuse-guidelines/en/index.html](http://www.who.int/entity/water_sanitation_health/publications/potable-reuse-guidelines/en/index.html)

## Technology Product Profile: working towards improving technologies for detection of E. coli in drinking water

UNICEF Supply Division, in collaboration with the WHO/UNICEF Joint Monitoring Programme on Water Supply, Sanitation and Hygiene, is pleased to announce the launch of a revised Target Product Profile (TPP) for rapid E. coli detection. This replaces the version issued in 2016 and incorporates the feedback collected during the Stakeholder Consultation held in November of last year. The purpose of the TPP is to guide product development, with a focus on three key use cases:

- 1) data collection in household surveys;
- 2) behaviour change and water safety planning with communities; and
- 3) on-site or field testing for regulatory oversight or surveillance purposes.

The TPP includes acceptable and ideal requirements, and prioritizes the ideal requirements for each use case to help developers make decisions on trade-offs. This TPP is now published for a consultation period of two months, during which product developers and suppliers are encouraged to send questions to UNICEF at [washsupply@unicef.org](mailto:washsupply@unicef.org) with the subject line "Rapid E. coli Detection". UNICEF hopes to issue a Request for Proposals later this year in order to identify potential solutions for testing, and is interested in both incremental (meeting the acceptable requirements), and radical (meeting the ideal requirements) innovations.

## Meeting on Antimicrobial Resistance (AMR) and the Environment – Netherlands 5-6 July 2017

WHO and KWR Netherlands convened global experts and WHO regional advisers to examine evidence and develop WHO priorities on tackling environmental drivers of AMR. Key conclusions were:

- Existing WASH intervention in health facilities and communities offer significant co-benefits for combatting AMR. These no regrets investments need to be accelerated through AMR National Action Plans.
- Action is needed to improve treatment of wastewater from antibiotic manufacturing sites to reduce release of residues into waterways.
- Additional research is needed on the impact on human health of resistant bacteria and their genes in sewage and effective surveillance and management strategies.

A full meeting report will be posted on the WHO website shortly.

*Please forward this email on to anyone who may be interested in its contents.*

*Check out the new website of the WHO WASH unit [www.who.int/water\\_sanitation\\_health](http://www.who.int/water_sanitation_health)*

If you are interested and download the Potable Reuse publication above, Australia gets a mention in Appendices 3,4 & 5.

#### Standards Australia:

Draft Standards open for public comment include:

AS 1172.2:2014 Amd 1 Water closets (WCs)      Comments close 4/12/2017

AS 1172.1:2014 Amd 1 Water closets (WCs)      Comments close 4/12/2017

AS/NZS 3500.1 Water services      Comments close 7/12/2017

AS/NZS 3500.4 Heated water services      Comments close 7/12/2017

AS/NZS 3500.2 Sanitary plumbing and drainage      Comments close 7/12/2017

To download draft standards and for online comments see [www.standards.org.au](http://www.standards.org.au) / Quick links > [Drafts for Public Comment](#)

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#### **Selection and Sizing of Copper Tubes for Water Piping Systems by Barrie Smith**

Only available as an E-Book from [www.plumbing.org.au](http://www.plumbing.org.au) simply follow the links to Technical Books through to the shopping cart and pay by PayPal or Credit Card for immediate download.

Companion Spreadsheet files utilising the E-Book are still freely available as an additional download when you complete your shopping cart journey.

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A bit of light relief:



Manure: In the 16th and 17th centuries, everything had to be transported by ship and it was also before commercial fertilizer's invention, so large shipments of manure were common.



It was shipped dry, because in dry form it weighed a lot less than when wet, but once water (at sea) hit it, it not only became heavier, but the process of fermentation began again, of which a by-product is methane gas. As the stuff was stored below decks in bundles you can see what could (and did) happen. Methane began to build up below decks and the first time someone came below at night with a lantern, BOOOOM!





Several ships were destroyed in this manner before it was determined just what was happening.

After that, the bundles of manure were always stamped with the term 'Ship High In Transit' on them, which meant for the sailors to stow it high enough off the lower decks so that any water that came into the hold would not touch this volatile cargo and start the production of methane.



Thus evolved the term ' S.H.I.T ', (Ship High In Transport) which has come down through the centuries and is in use to this very day. You probably did not know the true history of this word. Neither did I.

If you are not already a member why not join and really help us provide a voice for plumbers and plumbing. Simply email the Secretary below.

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Comments on matters raised in E-INSTITUTE or suggestions for future issues are welcome and may be sent to the Editor at: The Institute of Plumbing Australia Inc. P O Box 2005 MARMION Western Australia 6020 FAX: 08 9448 0420 EMAIL: <a href="mailto:secretary@plumbing.org.au">secretary@plumbing.org.au</a> WEB: <a href="http://www.plumbing.org.au">www.plumbing.org.au</a>	 

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