



NSAI

ANNUAL REPORT 2018

NSAI TECHNICAL COMMITTEE – NSAI/TC 011

WASTEWATER ENGINEERING

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1 Introduction

The NSAI/TC 011 - Wastewater Engineering consultative committee currently monitors a wide range of standards related to the point of origin (collection) up to the point of disposal of wastewater, including treatment plants and the use of treated wastewater for purposes other than agricultural irrigation. The range of standards covered is vast and may have significant implications on the public's health and safety as well as the environment. The work of the committee also impacts upon the Department of Housing, Planning and Local Government's (DHPLG) Building Regulations Technical Guidance Document Part H - Drainage and Waste Water Disposal.

2 Scope of TC

NSAI/TC 011 is responsible for monitoring the work of CEN/TC 165 – Wastewater engineering and how the standards developed by TC 165 are to be implemented in Ireland, specifically harmonised standards (hENs) which are in line with the construction products regulations (305/2011). To do this, there are currently 4 active working groups (WGs) under the remit of NSAI/TC 011, each mirroring specific WGs within TC 165 which would have an impact on the Irish Wastewater industry. NSAI/TC 011 and its WGs also develop and update national documents such as S.R.66 - providing guidance to wastewater treatment products in compliance with the EN 12566 series of standards.



The industry currently has 3 experts involved in international work

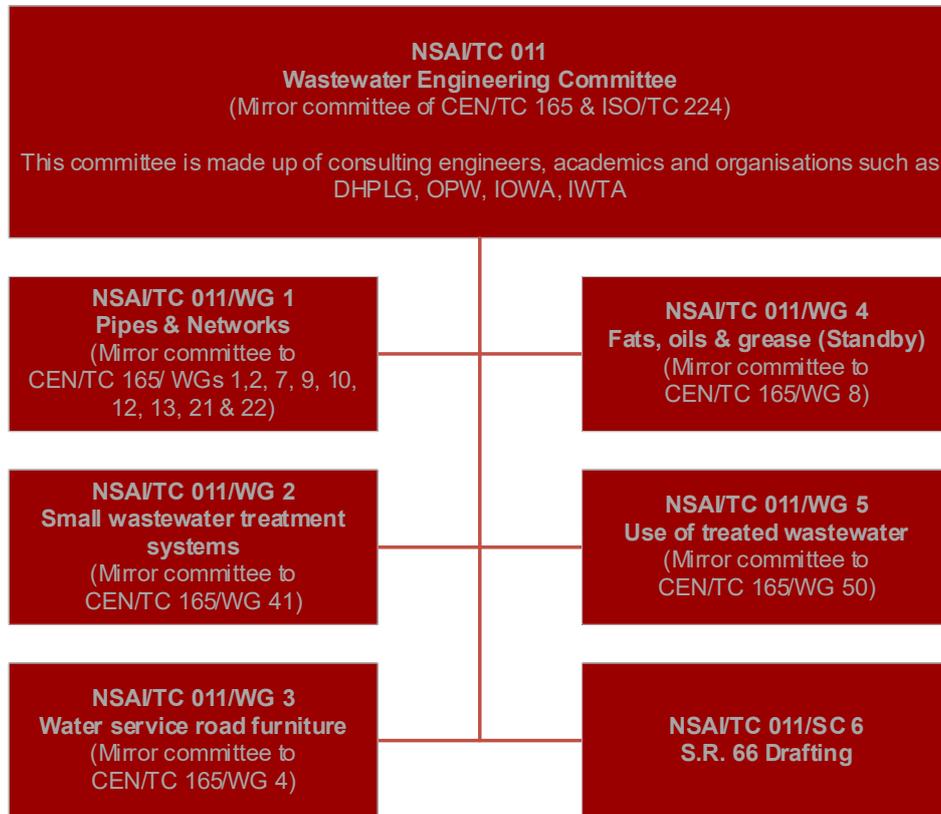
The committee and its working groups mirror the following international committees:

Committee Name	Committee Title	Irish Mirror Committee
CEN/TC 165	Wastewater Engineering	NSAI/TC 011
CEN/TC 165 WG1	General requirements for pipes	NSAI/TC 011/WG 1
CEN/TC 165 WG2	Vitrified clay pipes	
CEN/TC 165 WG7	Steel Pipes	
CEN/TC 165 WG9	Concrete Pipes	
CEN/TC 165WG10	Installation of buried pipes for gravity drain and sewer systems	
CEN/TC 165 WG12	Structural design of buried pipelines	
CEN/TC 165 WG13	Renovation and repair of drains and sewers	
CEN/TC 165 WG21	Drainage systems inside buildings	
CEN/TC 165 WG22	Drain and sewer systems outside buildings	
CEN/TC 165 WG41	Small type sewage treatment plants (< 50 inhabitants)	
CEN/TC 165 WG50	Use of treated wastewater	NSAI/TC 011/WG 5
CEN/TC 165 WG4	Manhole tops, gully tops, drainage channels and other ancillary components for use outside buildings	NSAI/TC 011/WG 3
ISO/TC 224	Service activities relating to drinking water supply systems and wastewater systems	NSAI/TC 011

3 Structure and Membership

3.1 Structure

The Figure below illustrates the structure of the Committee:



3.2 Members

The list below are the members for the year 2018:

Organisation	Name	Role
IOWA (Ash Environmental)	Joe Walsh	NSAI/TC 011 Committee Chair
Private consultant	John Casey	National committee member
Tricel	David Cotter	National committee member & WG2 Chair
Ejco	Padraig Freeman	National committee member
Ejco	Brian Kelly	National committee member
Irish Water	Keith Kirwan	National committee member
IWTA (Molloy Engineering)	John Molloy	National committee member
DHPLG	Eamonn Smyth	National committee member
Condron Concrete	Barry Spollen	National committee member
IOWA (Polylock)	Alan Wright	National committee member
Molloy Precast	Michael Cahill	WG2 & WG 5 committee member
DIT	Sean O'Hogain	WG2 committee member & WG5 Chair
Sulzer	Martin Crowe	WG1 committee member
Pipelife	Michael Gill	WG1 committee member
Pipelife	Conor Manning	WG1 committee member
Cubis Industries	Julia McDaid	WG3 committee member
Irish Water	Liam Murray	WG3 committee member

4 Summary of 2018 Activities

4.1 National

2018 saw a significant level of activity within WG2 and WG5 monitoring International work within CEN TC/165/ WG 41 and WG 50 as well as developing National documents.

2018 also saw David Cotter step down as chair of the WG2. NSAI/TC 011 committee members would like to acknowledge David's enormous contribution to the work of NSAI/TC 011/WG 2 and CEN/TC 165/WG 41 and wish him well in his future career.

4.1.1 Meetings

Committee members attended the following national meetings in NSAI as follows:

Meeting	Date
NSAI/TC 011/WG 2	8 th March 2018
NSAI/TC 011/WG 2	29 th May 2018
NSAI/TC 011/WG 2	6 th December 2018
NSAI/TC 011/WG 5	5 th July 2018
NSAI/TC 011/WG 5	20 th September 2018
NSAI/TC 011/WG 5	6 th December 2018

4.1.2 National Work

The main function of NSAI/TC 011 is the monitoring of CEN/TC 165 and ISO/TC 224 activities. The bulk of work at a national level in 2018 centred on monitoring the revisions of the EN12566 suite of standards to allow their citation in the OJEU by NSAI/TC 11/WG 2 as these standards would impact on Standard Recommendation S.R. 66. The revisions were due to be completed in 2019 however work on harmonised standards (hENs) developed by CEN/TC 165 was suspended in late 2018 (see 4.2.2 below).

The public consultation draft of the EPA code of practice for small wastewater treatment systems was issued in December 2018 and NSAI/TC 11/WG 2 began the review of the draft and a submission would be made to the EPA by WG2 in January 2019.

Approval to commence work on a National Annex to I.S EN 16941-1:2018 *On-site non-potable water systems - Part 1: Systems for the use of rainwater* was granted and a draft National Annex is currently under development to provide national guidance on the appropriate storage capacities required to store rain water and the level of dry days typically experienced in Ireland.

A review of the structure and work programme of NSAI/TC 011 was also carried out to highlight the risks and resources required to complete the committee's work programme over the next three years. The key finding was the lack of engagement with several key stakeholders within the industry and the need for new members to support current members, specifically at International level.

4.2 International

4.2.1 Meetings

Committee members attended the following international meetings:

COMMITTEE NAME	LOCATION	DATE
CEN/TC 165/WG 50	Berlin	January 2018
CEN/TC 165/WG 41	Nantes	April 2018
CEN/TC 165/WG 40	Dublin	September 2018

4.2.2 International Work

Members of NSAI/TC 011/WG2 and WG5 were actively engaged in the work of CEN/TC 165/WG 41 and WG 50 respectively. WG2 members regularly attend CEN/TC 165/WG 41 meetings to contribute to the development of the EN 12566 suite of standards to answer the EC mandate M/118 which will allow these standards to be published as hENs in the OJEU.

In November 2018 the draft prEN12566 parts 1, 3, 6 & 7 all received a negative assessment from the HAS consultant which has had an impact on all harmonised standard development within CEN/TC 165, with TC 165 ultimately taking the decision to suspend all harmonised standard development until a resolution can be found between the TC, CEN, the EC & the HAS consultants. It is hoped that clarity on the status of current work items and published standards will be provided as soon as possible in early 2019.

NSAI/TC 011/WG 5 members reviewed and submitted a number of comments on FprEN 16941-1 and prEN 16941-2 dealing with the use of rain water and treated grey water and attended the comment resolution meetings to finalise the drafts of these standards. I.S EN 16941-1:2018 - *On-site non-potable water systems - Part 1: Systems for the use of rainwater* was approved for publication and adopted in Ireland in August 2018 and a National annex is being developed to accompany this EN (See 4.1.2 above).

The NSAI also hosted a meeting of CEN/TC 165/WG 40 working on the EN12255 suite of standards on large wastewater treatment plants at which Ireland was represented.

4.2.3 International Standards Reviewed

The committee did not carry out any systematic reviews of current standards. However the reviews of the draft prEN16941 and prEN12566 suite of standards was carried out.

4.2.4 International Voting Results

Reference	Vote	Result	Closed on
ISO/DTS 24522	2 votes	Abstention	14/02/2018
Adoption of a PWI for EN 124-7	2 votes	Disapproved	05/03/2018
Adoption of a PWI for revision of EN 1123-1	1 vote	Abstention	05/03/2018
Adoption of a PWI for revision of EN 1123-2:2006+A1:2007	1 vote	Abstention	05/03/2018
Adoption of a PWI for revision of EN 1124-1	1 vote	Abstention	05/03/2018
Adoption of a PWI for revision of EN 12255-1	1 vote	Approved	05/03/2018
Adoption of a PWI for revision of EN 12255-11	1 vote	Approved	05/03/2018
Adoption of a PWI for revision of EN 12255-4	1 vote	Approved	05/03/2018
Adoption of a PWI for revision of EN 12255-5	1 vote	Approved	05/03/2018
Adoption of a PWI for revision of EN 12255-6	1 vote	Approved	05/03/2018
Adoption of a PWI for revision of EN 12255-7	1 vote	Approved	05/03/2018
Adoption of a PWI for revision of EN 12255-8	1 vote	Approved	05/03/2018
Adoption of a PWI for revision of EN 12255-9	1 vote	Approved	05/03/2018
ISO/DIS 20325	1 vote	Abstention	15/03/2018
Approval of answer to Mandate M118 for hEN 12566-1	1 vote	Approved	04/04/2018
Approval of answer to Mandate M118 for hEN 12566-3	1 vote	Approved	04/04/2018
Approval of answer to Mandate M118 for hEN 12566-4	1 vote	Approved	04/04/2018
Approval of answer to Mandate M118 for hEN 12566-6	1 vote	Approved	04/04/2018

Approval of answer to Mandate M118 for hEN 12566-7	1 vote	Approved	04/04/2018
New/modified Class or Threshold for hEN 12566 series	1 vote	Approved	04/04/2018
ISO/DIS 24516-2	1 vote	Abstention	26/04/2018
ISO/DIS 24516-4	1 vote	Abstention	26/04/2018
FprEN 15885	1 vote	Abstention	18/05/2018
ISO/DIS 24513	1 vote	Abstention	29/05/2018
Use of chlorination in EN 12255-14	1 vote	Disapproved	18/07/2018

4.3 Regulatory Development/Update

The activity of CEN/TC 165 and NSAI/TC 011 did not impact on Irish Building Regulations or the associated Technical Guidance Document Part H (TDG Part H) in 2018.

The public consultation draft of the revised EPA code of practice for small wastewater treatment systems was issued in December 2018 and would be reviewed by the committee, specifically WG2.

5 Irish Publications/Reviews

5.1 Publications

The committee did not publish any deliverables in 2018.

5.2 Reviews

A review of the following Irish national documents which were placed on hold:

1. I.S. 6:2004 - Concrete Sewer Pipes to be reviewed by WG1 upon publication of a revision to EN1916;
2. I.S. 261:2013 - Water services road furniture – Requirements for cast iron covers and frames to be reviewed by WG3; and,
3. I.S. 420:2004 - Pre-cast Concrete Manholes to be reviewed by WG1 upon publication of a revision to EN1917.

6 Work programme for 2019 onwards

At the International level, due to the suspension of all harmonised standard development work by CEN/TC 165, the bulk of the work of the committee in 2019 will focus on monitoring the activity of CEN/TC 165 to establish when work may begin again on harmonised standards. The suspension affects NSAI/TC 11 Working Groups, 1,2 and 3 and limits the progress that can be made on the revision/withdrawal of I.S. 6 and I.S. 420.

At a National level work on the NA to I.S. EN16941-1 will be progressed and a submission will be made to the EPA on the revised CoP for small wastewater treatment plants.

NSAI/TC 011/WG 2 will also have to discuss the use of I.S. EN12566 Part 7-Tertiary Treatment systems in Ireland and to establish the following:

- Their purpose/use in Ireland;
- Any concerns regarding their use; and,
- Potential National test requirements needed.

The outcome of this discussion may result in the need to revise S.R. 66