



# ANNUAL REPORT 2019

NSAI TECHNICAL COMMITTEE – NSAI/TC 011

WASTEWATER ENGINEERING

## Contents

1	Introduction .....	3
2	Scope of TC.....	3
3	Structure and Membership .....	4
3.1	Structure .....	4
3.2	Members.....	4
4	Summary of 2018 Activities.....	5
4.1	National .....	5
4.1.1	Meetings.....	5
4.1.2	National Work.....	5
4.2	International .....	5
4.2.1	Meetings.....	5
4.2.2	International Work.....	6
4.2.3	International Standards Reviewed .....	6
4.2.4	International Voting Results .....	7
4.3	Regulatory Development/Update .....	7
5	Irish Publications/Reviews .....	7
5.1	Publications.....	7
5.2	Reviews.....	7
6	Work programme for 2019 onwards.....	7

## 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, in particular harmonised standards (hENs) which are in line with the construction products regulations (305/2011). In order 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  
2 experts involved in  
international work

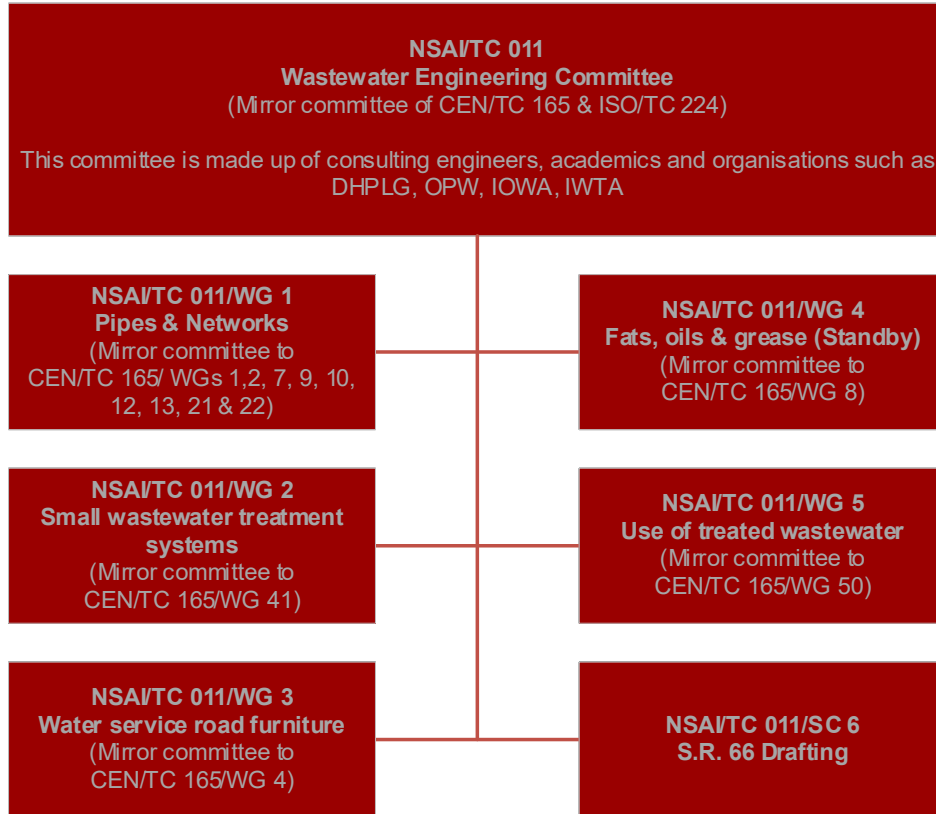
The committee and its working groups mirror the following international committees:

Committee Name	Committee Title	Irish Mirror Committee
<b>CEN/TC 165</b>	Wastewater Engineering	NSAI/TC 011
<b>CEN/TC 165 WG1</b>	General requirements for pipes	NSAI/TC 011/WG 1
<b>CEN/TC 165 WG2</b>	Vitrified clay pipes	
<b>CEN/TC 165 WG7</b>	Steel Pipes	
<b>CEN/TC 165 WG9</b>	Concrete Pipes	
<b>CEN/TC 165WG10</b>	Installation of buried pipes for gravity drain and sewer systems	
<b>CEN/TC 165 WG12</b>	Structural design of buried pipelines	
<b>CEN/TC 165 WG13</b>	Renovation and repair of drains and sewers	
<b>CEN/TC 165 WG21</b>	Drainage systems inside buildings	
<b>CEN/TC 165 WG22</b>	Drain and sewer systems outside buildings	
<b>CEN/TC 165 WG41</b>	Small type sewage treatment plants (< 50 inhabitants)	
<b>CEN/TC 165 WG50</b>	Use of treated wastewater	NSAI/TC 011/WG 5
<b>CEN/TC 165 WG4</b>	Manhole tops, gully tops, drainage channels and other ancillary components for use outside buildings	NSAI/TC 011/WG 3
<b>ISO/TC 224</b>	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
<b>IOWA (Ash Environmental)</b>	Joe Walsh	NSAI/TC 011 Committee Chair
<b>Private consultant</b>	John Casey	National committee member
<b>Tricel</b>	James Butler	National committee member
<b>Ejco</b>	Padraig Freeman	National committee member
<b>Ejco</b>	Brian Kelly	National committee member
<b>Irish Water</b>	Keith Kirwan	National committee member
<b>IWTA (Molloy Engineering)</b>	John Molloy	National committee member
<b>DHPLG</b>	Simon McGuinness	National committee member
<b>Condron Concrete</b>	Barry Spollen	National committee member
<b>IOWA (Polylock)</b>	Alan Wright	National committee member & WG2 Chair
<b>IWTA</b>	Michael Cahill	WG2 & WG 5 committee member
<b>DIT</b>	Sean O'Hogain	WG2 committee member & WG5 Chair
<b>Sulzer</b>	Martin Crowe	WG1 committee member
<b>Pipelife</b>	Michael Gill	WG1 committee member
<b>Pipelife</b>	Conor Manning	WG1 committee member
<b>Cubis Industries</b>	Julia McDaid	WG3 committee member
<b>Irish Water</b>	Liam Murray	WG3 committee member

## 4 Summary of 2019 Activities

### 4.1 National

2019 saw a significant level of activity within WG2 at the beginning of the year as the WG2 members developed a submission to the EPA on its revised code of practice for small wastewater treatment systems, while the WG5 group monitored International work within CEN TC/165/ WG 50 as well as developing and publishing the Irish National Annex to I.S EN 16941-1:2018 *On-site non-potable water systems - Part 1: Systems for the use of rainwater*.

2019 also saw Eamonn Smyth of the DHPLG retire. NSAI/TC 11 committee members would like to acknowledge Eamonn's enormous contribution to the work of NSAI/TC 011/WG 2 and CEN/TC 165/WG 41 and wish him all the very best in his retirement. The members welcomed Simon McGuinness who replaced Eamonn as the DHPLG representative on the committee.

Alan Wright also took on the role of WG 2 convener, replacing David Cotter and the committee wish Alan the best of luck in this new role.

#### 4.1.1 Meetings

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

MEETING	DATE
<b>NSAI/TC 011/WG 2</b>	23 <sup>rd</sup> January 2019
<b>NSAI/TC 011/WG 2</b>	27 <sup>th</sup> February 2019
<b>NSAI/TC 011/WG 5</b>	23 <sup>rd</sup> January 2019
<b>NSAI/TC 011/WG 5</b>	26 <sup>th</sup> September 2019
<b>NSAI/TC 011/WG 6 MG</b>	5 <sup>th</sup> November 2019

#### 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 majority of work at a national level in 2019 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 & 4.2.3 below). As a result the CEN/TC 165 work items related to EN 12566 were cancelled as it was felt that the continuing delays and complications with citation would result in the standards exceeding the tolerance allowed to develop and publish the revised standards.

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 worked on an extensive submission which was made to the EPA by WG2 in January 2019.

WG 5 was active in developing the Irish National Annex to I.S. EN 16941-1:2018 and following a period of public consultation on the draft NA, it was agreed to publish the draft in September and following editing it was formally published in December 2019.

Following a review of NSAI/TC 011 in 2018, efforts were made to seek engagement with a number of key stakeholders within the industry and the need for new members to support current members, in particular at International level. This resulted in the EPA agreeing to get involved in the revision of S.R. 66 during 2019 and the establishment of a Management group within WG 6 to perform an initial overview of the requirements in S.R. 66 before the revision is launched in 2020.

### 4.2 International

#### 4.2.1 Meetings

Committee members attended the following international meetings:

COMMITTEE NAME	LOCATION	DATE
CEN/TC 165/WG 50	Aachen	April 2019
CEN/TC 165/WG 50	Aachen	September 2019
CEN/TC 165	Lisbon	November 2019

## 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.

However 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 would be provided in 2019, however the issues still remain, and no solution was found in 2019 and further consultations between all stakeholders will continue in 2020. This is reflected in the cancellation of the work items relating to EN 12566 Parts 1,3,6 & 7 as highlighted in 4.1.2.

NSAI/TC 011/WG 5 members reviewed and submitted a number of comments for EN 16941-2 dealing with the use of treated grey water and attended the comment resolution meeting to finalise the draft of this standard. 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 however errors in the standard have been highlighted which resulted in the development of the Irish National annex to address these issues. CEN/TC 165/WG 50 have been made aware of the errors and have agreed to work on an amendment to the standard to address the errors.

The NSAI attended the plenary meeting of CEN/TC 165 held in November 2019 where the main topic of discussion was how to address the backlog of harmonised standards and the continued difficulties TC 165 has with getting hENs cited in the OJEU. Further meetings will be attended in 2020 and CEN/TC 165 will be looking for input from NSBs on how national experts wish to that the issues be resolved. The options open to the TC were laid out as follows:

1. Do nothing, leave things as is - wait until the CPR is revised 5+ years + n years to develop the standards.
2. Revise standards and try and work within current process – This is not functioning and large risk that work won't be cited – One way under this option is to look for a delegated act – but this takes approx. 3 years.
3. Develop standard requests – Only short window available to develop as a number are already being development for submission and if not submitted within the next year it could be a number of years before it would be addressed.
4. De-harmonised hENs and remove them from the OJEU.

## 4.2.3 International Standards Reviewed

The committee did not carry out any systematic reviews of current standards. However the reviews of the draft FprEN16941-2 and prEN12566 suite of standards was carried out, with the results of these reviews reflected in the ballots taken in 4.2.4 below.

The rejection of the prEN 12566 parts was a result of the negative assessment from the HAS consultant, which would mean that if these standards were published they would not be cited in the OJEU, resulting in further confusion in the industry as to what standards should be applied in relation to CE marking of small wastewater treatment systems.

#### 4.2.4 International Voting Results

Reference	Vote	Result	Closed on
<b>FprEN 16942-2</b>	1 vote	Approved	01/01/2019
<b>prEN 12566-1</b>	1 vote	Disapproved	08/01/2019
<b>prEN 12566-3</b>	1 vote	Disapproved	08/01/2019
<b>prEN 12566-6</b>	1 vote	Disapproved	08/01/2019
<b>prEN 12566-7</b>	1 vote	Disapproved	08/01/2019

### 4.3 Regulatory Development/Update

The publication of the Irish National Annex to I.S EN 16941-1:2018 *On-site non-potable water systems - Part 1: Systems for the use of rainwater* may be referred to in a future revision of the Irish building regulations and the DHPLG's Technical Guidance Document Part H (TDG Part H) as the BS 8515 standard currently called up has been withdrawn and superseded by I.S. EN 16941-1.

The public consultation draft of the revised EPA code of practice for small wastewater treatment systems was issued in December 2018 and was reviewed by the committee, in particular WG2, with a large number of comments submitted to the EPA on the draft code of practice.

## 5 Irish Publications/Reviews

### 5.1 Publications

The Irish National Annex to I.S EN 16941-1:2018 *On-site non-potable water systems - Part 1: Systems for the use of rainwater* was published in December 2019.

### 5.2 Reviews

A review of the following Irish national documents was further put on hold in 2019 due to the issues surrounding the CPR and harmonised standards:

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 2020 onwards

At the International level, due to the continued suspension of all harmonised standard development work by CEN/TC 165, the majority of the work of the committee in 2020 will again 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.

Work on an amendment by CEN/TC 165/WG 50 on I.S EN 16941-1:2018 *On-site non-potable water systems - Part 1: Systems for the use of rainwater* will also be monitored.

A meeting of NSAI/TC 011/WG 2 will be called 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 and the activation of the TC 011/WG 6 group.