



**NSAI**

# ANNUAL REPORT 2021

NSAI TECHNICAL COMMITTEE  
TC 11 – 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, Local Government and Heritage (DHLGH) Building Regulations Technical Guidance Document Part H - Drainage and Wastewater 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 CEN/TC 165 are to be implemented in Ireland, in particular harmonised standards (hENs) which are in line with the Construction Products Regulation (CPR – Regulation No. 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 CEN/TC 165 the work of which have an impact on the Irish Wastewater industry.



The industry currently has 2 experts involved in international work

NSAI/TC 011 and its WGs also develop and maintain national documents such as S.R.66 - providing guidance to wastewater treatment products in compliance with the EN 12566 series of standards.

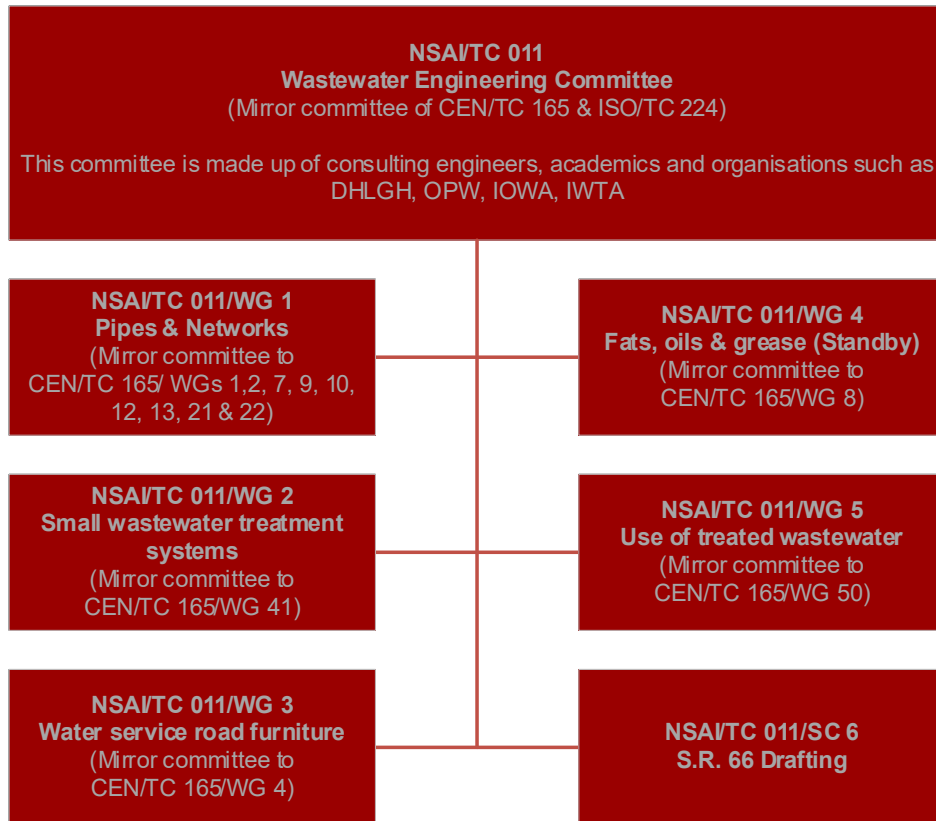
The committee and its working groups mirror the following international committees:

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 members of NSAI/TC 011 in 2021 are listed below:

Organisation	Role
<b>IOWA</b>	National committee & WG 2 member
<b>Tricel</b>	National committee member
<b>Ejco</b>	National committee member
<b>Irish Water</b>	National committee member
<b>Molloy Engineering</b>	National committee member
<b>DHLGH</b>	National committee member
<b>Condron Concrete</b>	National committee member
<b>Polylock</b>	National committee member & WG2 Chair
<b>IWTA</b>	WG2 & WG 5 committee member
<b>Pipelife</b>	WG1 committee member
<b>Sulzer</b>	WG1 committee member
<b>Total Pipeline</b>	WG1 committee member
<b>TUD</b>	WG2 & WG 5 committee member WG5 & WG6 Chair
<b>Cubis Industries</b>	WG3 committee member

## 4 Summary of 2021 Activities

### 4.1 National

As in 2020 the work of the CEN/TC 165 WGs which the NSAI/TC 011 closely monitors was either limited or had stalled in 2021 due to the ongoing issues with citation of harmonised standards. As the majority of NSAI/TC 011's activity is linked to the development of harmonised standards (hENs) work at a national level in 2021 was limited.

The item of note in 2021 was the publication of the revised EPA Code of Practice for Domestic Wastewater Treatment Systems (Population Equivalent  $\leq 10$ ).

#### 4.1.1 Meetings

No national meetings held in 2021.

#### 4.1.2 National Work

The launch of the revised EPA Code of Practice for Domestic Wastewater Treatment Systems means that NSAI/TC 11 WGs 2 & 6 can start the process of assessing the impact of the revised CoP and whether or not S.R. 66 needs to be amended so as to provide guidance on I.S. EN 12566 Part 7 - Tertiary treatment systems.

### 4.2 International

#### 4.2.1 Meetings

Committee members attended the following international meetings:

Committee Name	Location	Date
<b>CEN/TC 165</b>	On-line	June 2021
<b>ISO/TC 224</b>	On-Line	June 2021

#### 4.2.2 International Work

The NSAI attended the plenary meeting of CEN/TC 165 and ISO/TC 224 in June 2021. The main topic of discussion at the CEN/TC 165 meeting was the continued difficulties with getting hENs cited in the OJEU. It was decided that CEN/TC 165 WGs will be allowed to choose whether they think it appropriate to suspend their work or continue to work within the confines of the current system. This decision was consistent with NSAI/TC 11's position on the matter.

CEN/TC 165 and its WGs will also need to monitor the EC's revision of the Construction Products Regulation (CPR – Regulation No. 305/2011) and the CPR Acquis process as they progress during 2022 and beyond. The CPR Acquis process is an initiative of the European Commission which is seeking advice from Member States and National experts on how best to capture the suitable and relevant essential characteristics and National provisions of products that will be addressed in future Standardization Requests. The CPR Acquis process will have an impact on the revision of the Construction Products Regulation, future harmonised standards (hENs), CE marking and the single market over the coming years.

Environmental topics and issues were increasingly coming to the fore in 2021 and will likely impact all CEN/TC 165 WGs work and by extension NSAI/TC 011's work programme in the coming years. The items which need to be considered include the EC's Green Deal, revision of the Urban Wastewater treatment directive, standardisation needs related to micro plastics and the work of ISO 224 in respect to Stormwater, climate change and adaptation and ISO TC 282 work on Water reuse.

### 4.3 Regulatory Development/Update

Other than the EPA CoP coming into force in June 2021, there were no other regulatory developments in 2021 which affected the work of NSAI/TC 011 (see 4.1.2).

## 5 Irish Publications/Reviews

### 5.1 Publications

There were no National publications related to wastewater in 2021.

### 5.2 Reviews

A review of *I.S. 261:2013 - Water services road furniture – Requirements for cast iron covers and frames* was still on hold in 2021 due to the issues surrounding the CPR and harmonised standards. Work to review and revise the following documents was discussed with stakeholders late in 2021 and is likely to be added to the work programme for 2022.

1. I.S. 6:2004 - Concrete Sewer Pipes; and,
2. I.S. 420:2004 - Pre-cast Concrete Manholes.

## 6 Work programme for 2022 onwards

A proposal to amend *I.S. 420:2004 – Pre-cast concrete manholes* was submitted in late 2021 and this will be fully evaluated in 2022 along with a review of *I.S. 6:2004 – Concrete sewer pipes* and an assessment of *I.S. 166:1972 – Concrete surface water pipes* to determine where to revise or withdraw the standard.

Assessment of S.R. 66 to determine if it should incorporate I.S. EN 12566 Part 7 - Tertiary Treatment Systems and the reactivation of the NSAI/TC 011/WG 6 group is due to take place in 2022 as the revised EPA CoP for Domestic Wastewater Treatment Systems (Population Equivalent  $\leq 10$ ) came into force.

At the International level, due to the continued uncertainty around harmonised standard development work, the focus of NSAI/TC 011 in 2021 will be on monitoring the activity of CEN/TC 165 to establish when work might begin again on harmonised standards. The suspension affects NSAI/TC 11 Working Groups, 1,2 and 3.

NSAI/TC 011 members will need to keep abreast of the changes being proposed as part of the EC's review of the Construction Products Regulation (CPR – Regulation No. 305/2011) and the CPR Acquis process as these will have a significant impact on harmonised standards, CE marking and the single market over the coming years.

NSAI/TC 11/WG 5 will continue its supportive role in amending EN 16941-1:2018 *On-site non-potable water systems - Part 1: Systems for the use of rainwater* by CEN/TC 165/WG 50.