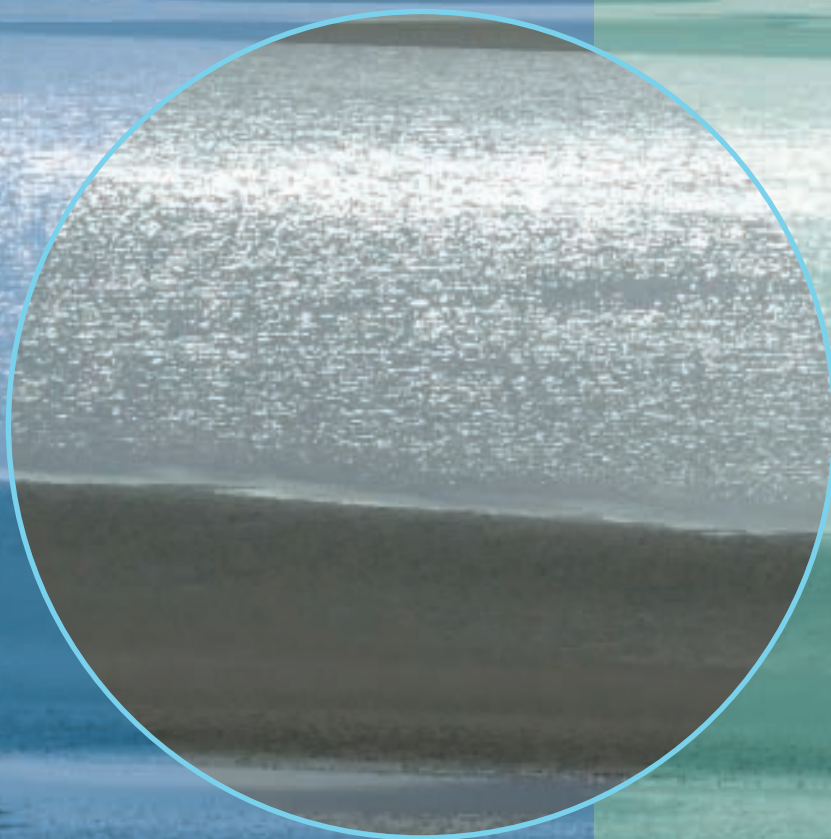


Urban Waste Water Discharges in Ireland for Population Equivalents Greater than 500 Persons



A Report for the Years
2006 - 2007



Environmental Protection Agency

The Environmental Protection Agency (EPA) is a statutory body responsible for protecting the environment in Ireland. We regulate and police activities that might otherwise cause pollution. We ensure there is solid information on environmental trends so that necessary actions are taken. Our priorities are protecting the Irish environment and ensuring that development is sustainable.

The EPA is an independent public body established in July 1993 under the Environmental Protection Agency Act, 1992. Its sponsor in Government is the Department of the Environment, Heritage and Local Government.

OUR RESPONSIBILITIES

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We license the following to ensure that their emissions do not endanger human health or harm the environment:

- waste facilities (e.g., landfills, incinerators, waste transfer stations);
- large scale industrial activities (e.g., pharmaceutical manufacturing, cement manufacturing, power plants);
- intensive agriculture;
- the contained use and controlled release of Genetically Modified Organisms (GMOs);
- large petrol storage facilities.
- Waste water discharges

NATIONAL ENVIRONMENTAL ENFORCEMENT

- Conducting over 2,000 audits and inspections of EPA licensed facilities every year.
- Overseeing local authorities' environmental protection responsibilities in the areas of - air, noise, waste, waste-water and water quality.
- Working with local authorities and the Gardaí to stamp out illegal waste activity by co-ordinating a national enforcement network, targeting offenders, conducting investigations and overseeing remediation.
- Prosecuting those who flout environmental law and damage the environment as a result of their actions.

MONITORING, ANALYSING AND REPORTING ON THE ENVIRONMENT

- Monitoring air quality and the quality of rivers, lakes, tidal waters and ground waters; measuring water levels and river flows.
- Independent reporting to inform decision making by national and local government.

REGULATING IRELAND'S GREENHOUSE GAS EMISSIONS

- Quantifying Ireland's emissions of greenhouse gases in the context of our Kyoto commitments.
- Implementing the Emissions Trading Directive, involving over 100 companies who are major generators of carbon dioxide in Ireland.

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- Co-ordinating research on environmental issues (including air and water quality, climate change, biodiversity, environmental technologies).

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- Assessing the impact of plans and programmes on the Irish environment (such as waste management and development plans).

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- Providing guidance to the public and to industry on various environmental topics (including licence applications, waste prevention and environmental regulations).
- Generating greater environmental awareness (through environmental television programmes and primary and secondary schools' resource packs).

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- Promoting waste prevention and minimisation projects through the co-ordination of the National Waste Prevention Programme, including input into the implementation of Producer Responsibility Initiatives.
- Enforcing Regulations such as Waste Electrical and Electronic Equipment (WEEE) and Restriction of Hazardous Substances (RoHS) and substances that deplete the ozone layer.
- Developing a National Hazardous Waste Management Plan to prevent and manage hazardous waste.

MANAGEMENT AND STRUCTURE OF THE EPA

The organisation is managed by a full time Board, consisting of a Director General and four Directors.

The work of the EPA is carried out across four offices:

- Office of Climate, Licensing and Resource Use
- Office of Environmental Enforcement
- Office of Environmental Assessment
- Office of Communications and Corporate Services

The EPA is assisted by an Advisory Committee of twelve members who meet several times a year to discuss issues of concern and offer advice to the Board.

Urban Waste Water Discharges in Ireland for Population Equivalents Greater than 500 Persons

A Report for the Years 2006 and 2007

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Urban Waste Water Discharges in Ireland

for Population Equivalents Greater than 500 Persons

A Report for the Years 2006 and 2007

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Table of Contents

Executive Summary.....	vii
1. The Regulation of Waste Water Treatment.....	1
1.1 Background	1
1.2 Enforcement of Waste Water Discharges by the EPA	1
1.3 The Urban Waste Water Treatment Regulations, 2001 and 2004.....	2
2. Compliance with the Urban Waste Water Treatment Regulations.....	3
2.1 The Level of Waste Water Treatment in Place	3
2.2 The level of Effluent Monitoring Completed	7
2.3 The Level of Compliance of Waste Water Treatment Plants	9
2.3.1 Large Waste Water Treatment Plants	9
2.3.2 Small Waste Water Treatment Plants	9
2.3.3 Compliance Maps	11
2.3.3.1 Large waste water treatment plants - Compliance with effluent quality and monitoring standards in the Regulations.....	11
2.3.3.2 Large waste water treatment plants - Compliance with effluent quality standards only	13
2.3.3.3 Small waste water treatment plants - Compliance with effluent quality guidance standards only	15
2.3.3.4 Large and small waste water treatment plants where insufficient numbers of samples were taken	17
2.4 Sewage Sludge Management.....	19
3. Enforcement	20
3.1 Audits	20
3.2 Enforcement Action	20
3.3 Impact of Waste Water Discharges on Rivers.....	21
3.4 Licencing and Authorisation of Waste Water Discharge Authorisations by the EPA	22
3.5 Summary of Enforcement Actions taken in 2006 and 2007	24
4. Recommendations	30
4.1 Level of Treatment Provided.....	30
4.2 Treatment Plant Operation	30
4.3 Monitoring and Reporting	30
4.4 Management of Odour and Noise.....	30
4.5 Seriously Polluted Waters.....	31
Appendix A: County reports	32
Appendix B: Sewage Sludge Produced	92

List of Tables

Table 2-1: Agglomerations for which Secondary Treatment was not in Operation by the end of the reporting period 2006/2007	4
Table 2-2: Summary of Waste Water Treatment Provision for Agglomerations Greater Than or Equal to 500 Population Equivalent for the Year 2007 (2004/2005 in brackets).....	5
Table 2-3: Number of Agglomerations and Population Equivalents for the Year 2007	5
Table 2-4: Number of Secondary Waste Water Treatment Plants Categorised by Type of Receiving Water for the Year 2007	6
Table 2-5: Discharges to Sensitive Areas for the Year 2007	6
Table 2-6: Number of Analytical Results Reported in 2007.....	7
Table 2-7: Phosphorus Monitoring for 2007 at Plants Greater than 10,000 p.e Discharging to Sensitive Areas as set out in the 2001 Regulations and the Relevant Catchment Areas of such Sensitive Areas	8
Table 2-8: A Summary of the Compliance of Local Authorities with the Overall Requirements of the Urban Waste Water Treatment Directive	10
Table 2-9: Sewage Sludge Reuse and Disposal Routes 2007 (2005 in Brackets)	19
Table 3-1: Water Quality Improvements at Seriously Polluted River Sites since the Period 2001-2003.....	21
Table 3-2: Seriously Polluted Rivers Impacted by Municipal Waste Water at the end of the Reporting Period 2006/2007.....	22
Table 3-3: Number of Licence Applications Received by the Agency as per Set Dates Prescribed by the Waste Water Discharge Authorisation Regulations, 2007.....	23
Table 3-4: Section 63 Notices Issued for Odour Related Issues Initiated in 2006 and 2007	24
Table 3-5: Section 63 Notices Issued in 2006 and 2007 Relating to Discharges from Urban Waste Water Treatment Plants.....	25
Table 3-6: Section 63 Notices Issued in 2006 and 2007 for Failed Bathing Water Standards.....	28

List of Figures

Figure 1-1: Treatment Plant Requirements.....	2
Figure 2-1: Large waste water treatment plants: Compliance with effluent quality and monitoring frequency requirements of the Directive for secondary waste water treatment plants $\geq 2,000$ p.e. discharging to freshwaters and estuaries and $\geq 10,000$ p.e. discharging to coastal waters.....	12
Figure 2-2: Large waste water treatment plants: Compliance with effluent quality standards only for secondary waste water treatment plants $\geq 2,000$ p.e. discharging to freshwaters and estuaries and $\geq 10,000$ p.e. discharging to coastal waters	14
Figure 2-3: Small waste water treatment plants: Compliance with effluent quality guidance standards only during 2007 for secondary waste water treatment plants $< 2,000$ p.e. discharging to freshwater and plants $< 10,000$ p.e. discharging to coastal waters	16
Figure 2-4: Large and small secondary waste water treatment plants where insufficient numbers of samples were taken during 2007.....	18

Reference List	93
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Executive Summary

The role of the Environmental Protection Agency (EPA) in the supervision of local authority waste water discharges changed during the latter half of 2007. The Waste Water Discharge (Authorisation) Regulations, 2007 introduced for the first time an authorisation system for all local authority waste water discharges. The EPA is now the competent authority for assessing discharge licence applications and granting authorisations setting out specific conditions to prevent and control water pollution. Authorisations will require appropriate remedial actions within specified timeframes to be undertaken to address each of the discharge locations within the agglomeration. The remedial action will ensure that appropriate protection is afforded to the receiving water environment.

This report provides a review of the treatment of waste water at 482 villages, towns and cities in Ireland and the quality of discharges from 370 secondary waste water treatment plants with a population equivalent of 500 or more during the reporting period 2006/2007. The overall findings show that there is no waste water infrastructure or inadequate infrastructure at 112 locations in Ireland and there are 192 treatment plants (51%) where the effluent quality is not meeting the EU standards due to waste water treatment plants either not operating properly or being overloaded.

EPA biological monitoring in 2007 identified 13 seriously polluted river sites that can be attributed to urban waste water discharges. In addition, 7 bathing water areas failed the EU mandatory limits during the reporting period 2006/2007 due to the impact of waste water discharges.

While there has been significant investment in waste water infrastructure in Ireland over the past decade, which has increased the capacity to treat waste water, the level of infrastructure has to increase and be deployed at a faster rate to:

- Meet the EU standards;
- Prevent the pollution of rivers, lakes, estuaries and bathing waters;
- Protect drinking water supplies.

In addition, the management of waste water treatment systems needs to improve as a quarter of the non-compliances in large waste water treatment plants can be attributed to insufficient sampling.

The main findings of the report are given below.

Level of Treatment of Waste Water

In 2007 the level of treatment provided at 482 locations, which collectively represent a population equivalent (p.e.) of 5,835,495 was as follows:

- 4% of waste water arisings did not receive any form of treatment;
- 5% of waste water arisings received preliminary treatment;
- 1% of waste water arisings received primary treatment;
- 75% of waste water arisings received secondary treatment;
- 15% of waste water arisings received nutrient reduction in addition to secondary treatment.

At the start of 2008, waste water from 112 locations with a population equivalent of 500 p.e. or greater was being discharged with either no treatment or basic treatment, and in most cases was discharging to estuarine or coastal waters.

Of the 158 locations requiring secondary treatment or higher by the December 2005 deadline set by the Urban Waste Water Treatment Directive, the required level of treatment was not in place at 28 of these agglomerations at the end of the reporting period 2006/2007. New secondary treatment plants were commissioned for Donegal Town and the agglomeration of Balbriggan/Skerries during 2008. Large towns that had no secondary treatment included Bray, Killybegs, Shangannagh, Waterford City and Sligo Town with treatment plants for Waterford City and Sligo Town due into operation in 2009. The full list of the agglomerations falling within the scope of the Urban Waste Water Treatment Directive without secondary treatment during the reporting period is shown in Table 2-1 of this report.

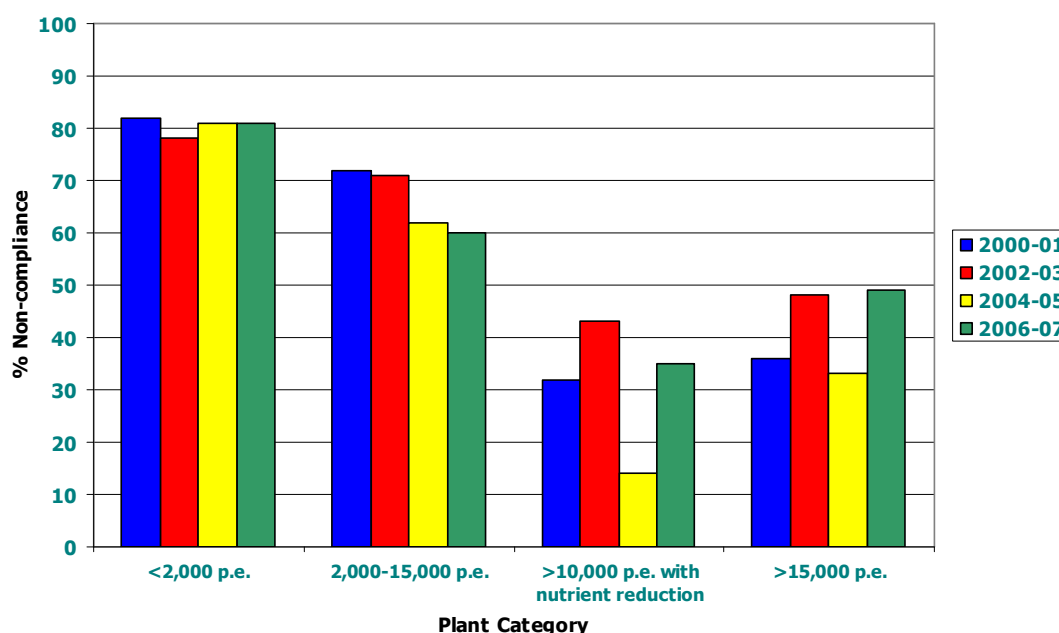
Level of Operation of Waste Water Plants

The Urban Waste Water Treatment Regulations, 2001 (S.I. No. 254 of 2001) and 2004 (S.I. 440 of 2004), set specific standards to be achieved for waste water treatment plants. In addition, the Regulations set out a regime of monitoring by local authorities of discharges from waste water treatment plants.

In the 2006/2007 reporting period non-compliance for the very large plants (i.e. >15,000 p.e.) increased by 16 per cent over the previous reporting period, while the majority (81%) of smaller treatment plants (i.e. <2,000 p.e.) did not comply with the required standards. One-in-five plants failed to take an adequate number of samples in 2007.

The non-compliance rates are summarised below.

Non-compliance rates for secondary waste water treatment plants from 2000/01 to 2006/07



Level of Impact of Waste Water Discharges

In 2006 and 2007 the EPA audited 22 local authorities and inspected 41 waste water treatment plants as part of these audits. The following recurring problems were identified:

- Inadequate collecting systems for waste water (e.g. poorly performing combined sewer overflows);
- Insufficient treatment capacity;
- Insufficient sampling frequencies;
- Poor effluent quality;
- Poor assimilative capacity for discharged effluent in some receiving waters, and;
- Poor sludge management on site.

Many of these plants are identified as having an impact on the quality of the receiving water. These issues need to be addressed as a matter of urgency by the appropriate local authority.

Licensing and Enforcement

The introduction of the Waste Water Discharge (Authorisation) Regulations in 2007 brought into effect a system for the licensing or certification of waste water discharges. Waste water treatment plants across the country must improve to achieve best international practice and meet the discharge limits being set in Urban Waste Water Discharge Authorisations, having regard to the Dangerous Substances Directive,

the Urban Waste Water Regulations, the objectives established under the Water Framework Directive, the requirement to prevent pollution of waters and the requirement to protect bodies of water used for drinking water abstraction. Discharges from these plants will be regulated and controlled by Authorisations granted by the EPA over the coming years that will require appropriate remedial actions that will ensure that appropriate protection is afforded to the receiving water environment. Failure to implement the programme of improvement set out in the Urban Waste Water Discharge Authorisations will result in enforcement action by the EPA up to and including prosecution.

EPA enforcement of the Urban Waste Water Treatment Regulations and Waste Water Discharge (Authorisation) Regulations will be risk-based and outcome-driven. The additional powers given to the Agency under the Waste Water Discharge (Authorisation) Regulations will be used to ensure better environmental performance from waste water treatment plants and drive the improvement of receiving water quality.

Recommendations

In order to achieve compliance with the requirements of the Urban Waste Water Treatment Regulation, the Urban Waste Water Discharge Authorisations and to secure improvements in the quality of effluents from urban waste water treatment plants, the EPA makes the following recommendations.

Level of Waste Water Treatment in Place

- **Eliminate untreated discharges** – The discharge of untreated waste water to the aquatic environment should become a practice of the past, and local authorities should install appropriate treatment at the 112 locations across the country where waste water is being discharged with either no treatment or basic treatment.
- **Complete infrastructure works** – Local authorities should as a priority provide secondary treatment for the 24 locations identified in Table 2-1 that remain without the required level of treatment.

Level of Operation of Waste Water Plants

- **Monitoring** – Local authorities should ensure that monitoring and analysis is carried out in accordance with the Regulations for all treatment plants under their control.
- **Operation of treatment plants** – Local authorities should review the operation, maintenance and management of urban waste water treatment plants in their functional areas and prepare and implement corrective action programmes for plants that are in breach of national and European standards.

Level of Impact of Waste Water Discharges

- **Target plants impacting on water quality** – Local authorities should in particular target corrective action programmes at plants that are polluting rivers, lakes and sensitive receptors such as bathing waters.
- **Measures under the Water Framework Directive** – At-risk waters as defined by the Water Framework Directive, should be a priority for protection. Failure to control the discharges into rivers with limited assimilative capacity or sensitive or protected areas will damage sensitive species, habitats, water abstractions, fisheries, shellfish production or spoil recreation.

1. The Regulation of Waste Water treatment

1.1 Background

The Environmental Protection Agency (EPA) is required under Section 61(3) of the Environmental Protection Agency Acts, 1992 to 2008, to report on the quality of effluents being discharged from treatment plants, sewers or drainage pipes which are vested in, controlled or used by local authorities. This report provides details of the level of treatment of waste water and the quality of discharges from secondary waste water treatment plants for all cities, towns and villages (known as agglomerations) with a population equivalent¹ over 500 during 2006 and 2007. The report is based on information supplied by local authorities on an annual basis.

This report investigates the compliance of the local authorities against the requirements of the Urban Waste Water Treatment Regulations and details the actions required by the local authorities to improve the level of treatment provided and the level of operation of the plants. This report also outlines the new responsibilities of the EPA following the introduction of the Waste Water Discharge (Authorisation) Regulations, 2007 (S.I No. 684 of 2007).

This Chapter outlines the regulatory framework of urban waste water treatment in Ireland including the main requirements of the Regulations. For further information and a more comprehensive overview of the Urban Waste Water Treatment Regulations download the previous biennial report on Urban Waste Water for the years 2004/2005 on the EPA website (www.epa.ie).

1.2 Enforcement of Waste Water Discharges by the EPA

A system for the licensing or certification of waste water discharges from areas served by local authority sewer networks was brought into effect on 27th September 2007 with the introduction of the Waste Water Discharge (Authorisation) Regulations, 2007 (S.I No. 684 of 2007). The licensing and certification process will give effect to a number of EU Directives by the imposition of restrictions or prohibitions on the discharge of dangerous substances and the implementation of measures required under the Water Framework Directive and thus prevent or reduce the pollution of waters by waste water discharges. All discharges to the aquatic environment from sewerage systems owned, managed and operated by water service authorities will require a waste water discharge licence or certificate of authorisation from the EPA. The authorities are required to apply to the Agency for a licence or certificate of authorisation by set dates depending on the population equivalent of the area served by the network. The first prescribed date for the submission of applications for agglomerations over 10,000 p.e. was the 14th December 2007. A status report on the licencing of waste water discharges by the EPA is provided in Chapter 3 of this report.

The authorisation process provides for the Agency to place conditions on the operation of such discharges to ensure that potential effects on the receiving water bodies are limited and controlled with the aim of achieving good surface water status and good groundwater status no later than December 2015. Further details on the Regulation and application process are available on the EPA website.

EPA enforcement of the Urban Waste Water Treatment Regulations and Waste Water Discharge (Authorisation) Regulations will be risk-based and outcome-driven. The EPA has identified a significant number of waste water treatment plants or discharges across the country where improvements are required in order to achieve best international practice and meet the discharge limits. Discharges from these plants will be regulated and controlled by Authorisations granted by the EPA over the coming two years that will set specific standards for emissions. Failure to comply with such standards or any other condition of an Authorisation will result in enforcement action by the EPA up to and including prosecution. The additional enforcement powers associated with conditions of Authorisations will significantly improve the monitoring and reporting frequency of discharges and thus provide a more comprehensive assessment of the environmental performance of plants. The additional powers given to the Agency under the Waste Water Discharge (Authorisation) Regulations will add to the existing body of enforcement powers available to the Agency. These will be used to ensure better environmental performance from waste water treatment plants and provide for significant improvement in receiving water quality.

¹ Population equivalent is defined in the Regulations as 'a measurement of organic biodegradable load and a population equivalent of 1 (1 p.e.) means the organic biodegradable load having a five-day biochemical oxygen demand (BOD5) of 60g of oxygen per day'.

1.3 The Urban Waste Water Treatment Regulations, 2001 and 2004

The Urban Waste Water Treatment Regulations, 2001 (S.I. No. 254 of 2001), were made by the Minister for the Environment on 14th June 2001 and amended on 15th July 2004. One of the principal requirements of the 2001 Urban Waste Water Regulations is to specify emission limit values for BOD (Biochemical Oxygen Demand), COD (Chemical Oxygen Demand) and TSS (Total Suspended Solids). Where discharges to sensitive water bodies occur, the Regulations also specify emission limit values for total phosphorus and/or total nitrogen. Monitoring frequency is also specified in the Regulations. This report provides full details on a plant-by-plant basis of the performance of each local authority in relation to monitoring frequency and compliance with the emission limits.

The other main requirements of the Regulations are the:

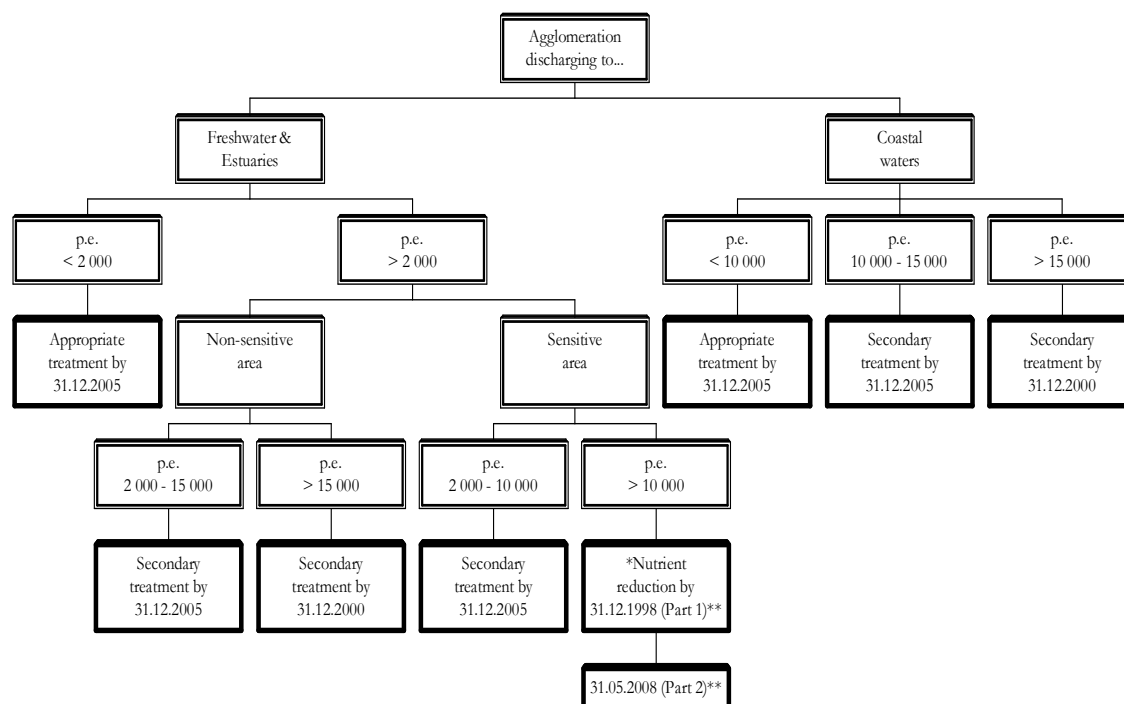
- Scheduled provision of waste water collecting systems - depending on the **size** of the agglomeration and on the **type** of water body to which the waste water is discharged (freshwater or coastal, sensitive or non-sensitive);
- Scheduled provision of waste water treatment plants depending on the **size** of the agglomeration and on the **type** of water body to which the waste water is discharged;
- Monitoring by local authorities (including frequency of monitoring) of discharges from waste water treatment plants including the transmission of results to the EPA.

The type of treatment facilities required (by the Regulations) for individual agglomerations depends on the size of the agglomeration, the type of receiving water body (freshwater, estuarine or coastal water) and whether the receiving water body is sensitive (or not), as defined by the Regulations. For example, an agglomeration greater than 2,000 population equivalent (p.e.) discharging to a freshwater required secondary treatment by 31st December 2005. An agglomeration less than 10,000 p.e. discharging to coastal water required 'appropriate treatment' by 31st December 2005. Appropriate treatment is defined in the Regulations and means that the level of treatment provided must satisfy the quality standards for the receiving water.

Member states are required by the Urban Waste Water Treatment Directive to ensure that the identification of sensitive areas is reviewed at intervals of not more than four years. Forty-two water bodies are now designated as sensitive in Ireland. Nutrient reduction in respect of all discharges from agglomerations with a population equivalent of more than 10,000 was required on commencement of the 2001 Regulations (S.I. 254 of 2001) in the case of sensitive areas specified in Part 1 of the Third Schedule of the Regulations and by 31st May 2008 for those areas specified in Part 2.

The main requirements of the Regulations in respect of the provision of treatment plants are summarised in Figure 1-1 below.

Figure 1-1: Treatment Plant Requirements



* In addition to secondary treatment

2. Compliance with the Urban Waste Water Treatment Regulations

2.1 The Level of Waste Water Treatment in Place

This chapter provides an overview of the compliance with the Urban Waste Water Treatment Regulations during the years 2006 and 2007. The tables (Table 2-1 to Table 2-5) on the following pages set out details on the numbers and relative sizes of agglomerations throughout the country, the class of receiving waters to which waste water from these agglomerations discharge, an analysis of the provision of infrastructure and the level of treatment provided. Details about individual agglomerations and level of treatment provided in each county for 2006 and 2007 are presented in Appendix A.



Photograph 1: Clarifier in operation at a secondary treatment plant

By the 31st December 2007, a total of 28 of the 158 agglomerations requiring secondary treatment did not have the required level of treatment in place and were non-compliant with the requirements of the Urban Waste Water Treatment Regulations. These agglomerations are listed in Table 2-1 and are colour coded in order of stages of completion or operation². In most cases the required level of treatment will not be in place for a number of years. A secondary waste water treatment plant for Tramore in Co. Waterford came on-line during 2007. New secondary treatment plants were commissioned for Donegal Town and the agglomeration of Balbriggan/Skerries (Fingal Co. Council) during 2008. Large towns that still had no secondary treatment in place at the start of 2008 included Bray (Co. Wicklow), Killybegs (Co. Donegal), Shanganagh (Dun Laoghaire Rathdown), Waterford City and Sligo Town with treatment plants for Waterford City and Sligo Town due into operation in 2009.

Based on data from the Department of Environment, Heritage and Local Government, the Irish authorities have invested a total of €2.7 billion in the provision of upgraded and new urban waste water treatment facilities in the period from 2000 to 2007. This investment has led to significant reductions in the volume of waste water being discharged nationally without secondary or appropriate treatment. Towns and cities such as Drogheda (Co Louth), Galway City and Wexford Town were provided with new waste water treatment facilities under this investment programme and have achieved good quality effluent results during the reporting period. However, in some cases as outlined in the report this

² Comments marked in red indicate that construction of the treatment plants will not commence until at least 2009, comments marked in amber indicate that construction of the treatment plants is underway and comments marked in green indicate that construction of the treatment plants has been completed since the reporting period 2006/2007.

investment has not always guaranteed that waste water discharges from the upgraded and new treatment facilities are compliant, as demonstrated by the performance of the new treatment plants provided for Dublin City (Ringsend) and Limerick City, both of which failed the effluent standards in the Regulations in 2006 and 2007.

Table 2-1: Agglomerations for which Secondary Treatment was not in Operation by the end of the reporting period 2006/2007

Local Authority	Agglomeration *Secondary treatment required by 31 st December 2000 Plant ID Number used in Fig. 2-1 to 2-4 is in brackets	Population Equivalent (p.e.)	Receiving Water Type	Construction Start Date (Unless otherwise indicated)
Clare	Clarecastle (688)	2,500	Estuarine	2012
Cork	Cobh (684)	10,000	Coastal	2013
Cork	Skibbereen (670)	3,500	Estuarine	2010
Cork	Carrigaline (550)	12,000	Estuarine	2013
Cork	Kinsale (93)	5,000	Estuarine	2009
Cork	Passage/ Monkstown (549)	5,000	Estuarine	2013
Cork	Youghal (548)	8,000	Estuarine	2010/2011
Donegal	Donegal Town (608)	5,400	Estuarine	Commissioned in 2008
Donegal	Ballyshannon No. 2 Agglomeration (595)	2,000	Estuarine	Commissioned in 2008
Donegal	Dungloe (127)	2,000	Freshwater	2011
Donegal	Falcarragh (124)	2,000	Estuarine	2013
Donegal	Moville (765)	2,000	Freshwater	2013
Donegal	Killybegs* (116)	92,000	Estuarine	2012
Dun Laoghaire-Rathdown	Shanganagh* (142)	67,500	Coastal	Under construction completion due in late 2010
Fingal	Howth/Baldoyle/ Portmarnock* (686)	18,000	Coastal	Under construction completion due in 2009
Fingal	Lusk (137)	3,000	Estuarine	2009
Fingal	Balbriggan*and Skerries (Barnageeragh) (722)	70,000	Coastal	Commissioned in 2008
Galway	Clifden (154)	4,063	Estuarine	2010
Kilkenny	Waterford City Environs (677)	4,000	Estuarine	Construction complete, commissioning in 2009
Sligo	Sligo* (685)	20,000	Coastal	Commissioned in 2009
Waterford City	Waterford City Environs* (445)	140,000	Estuarine	Construction complete, commissioning in 2009
Waterford City	Viewmount (445)	3,500	Estuarine	Construction complete, commissioning in 2009
Waterford City	Williamstown/ Grantstown- (445)	3,000	Estuarine	Construction complete, commissioning in 2009
Wexford	Bunclody (495)	2,555	Freshwater	2009
Wexford	New Ross (680)	10,000	Estuarine	Under construction completion due in 2009
Wicklow	Arklow (681)	15,000	Coastal	Subject to review proceedings
Wicklow	Bray (519)	40,000	Coastal	Under Construction completion due in early 2011
Wicklow	Wicklow (508)	10,000	Coastal	Under construction completion due in late 2009

Information on agglomerations with a population equivalent of 500 persons or greater was reported to the Agency for 2007. Of the 482 agglomerations, 370 received secondary treatment (112 of which also received nutrient reduction), 65 received primary treatment and 47 either received preliminary treatment or no treatment (see Table 2-2).

Table 2-2: Summary of Waste Water Treatment Provision for Agglomerations Greater Than or Equal to 500 Population Equivalent for the Year 2007 (2004/2005 in brackets)

	No treatment	Preliminary treatment only	Primary treatment only	Secondary treatment only	Secondary treatment with nutrient reduction	Total
Number of agglomerations	32 (33)	15 (17)	65 (74)	258 (275)	112 (79)	482 (478)
Total population equivalent (p.e.)	219,351 (598,256)	289,464 (312,264)	82,064 (88,624)	4,374,219 (3,959,294)	870,397 (669,018)	5,835,495 (5,627,456)

Table 2-2 indicates that in the reporting period 2007 there was a reduction to 4% in the amount of waste water arisings that did not receive any form of treatment from 11% in 2004/2005. The majority of this difference can be accounted for by the significant reduction in the population equivalent for Killybegs (Co. Donegal) since the previous reporting period (from 400,000 p.e in 2005 down to 92,000 p.e in 2007) and is as a result of the introduction of pre-treatment of fish factory effluent prior to discharge to the sewer network. There has been little change in the number of agglomerations receiving preliminary treatment and primary treatment since the previous reporting period. There has been an increase in the amount of waste water arisings receiving secondary treatment from 70% in 2004/2005 to 75% in 2007. The provision of secondary treatment with nutrient reduction has risen from 12% in 2004/2005 to 15% in 2007.

The number and total size of agglomerations in each class is given in Table 2-3. Dublin City (Ringsend Treatment Plant) and Cork City treatment plant each exceed population equivalents of 150,000 persons and collectively represent 55% of the waste water discharges for 2007.

Table 2-3. Number of Agglomerations and Population Equivalents for the Year 2007

Class of Agglomeration	Number	Total population equivalent (p.e)	% of Total population equivalent (p.e)
500 to 1,000 p.e.	188	132,804	2.3
From 1,001 to 1,999 p.e.	125	190,491	3.3
From 2,000 to 10,000 p.e.	113	543,500	9.3
From 10,001 to 15,000 p.e.	19	240,307	4.1
From 15,001 to 50,000 p.e.	25	604,739	10.4
From 50,001 to 150,000 p.e.	10	930,321	15.9
150,001 p.e. and above.	2	3,193,333	54.7
Total	482	5,835,495	100

The number of secondary treatment plants in operation during 2007 is presented in Table 2-4 as a function of the receiving water to which they discharge. A total of 370 secondary treatment plants were reported to be in operation during the reporting period, of which 109 discharged to sensitive areas or to the catchment of sensitive areas. Waste water from an additional 112 agglomerations was being discharged with either no treatment or basic treatment to mainly estuarine and coastal waters. Waterford City (which includes the agglomerations of Waterford City Environs, Viewmount and Williamstown/Grantstown) has an estimated population equivalent of 140,000 p.e and was the largest

discharge to a non-sensitive area for which a treatment plant has not been provided by the end of the reporting period 2006/2007.

Table 2-4: Number of Secondary Waste Water Treatment Plants Categorised by Type of Receiving Water for the Year 2007

Class of Agglomeration	Non Sensitive Areas		Sensitive Areas	Total no. of Secondary treatment plants
	Freshwaters and estuaries	Coastal Waters	Freshwaters and estuaries	
	No.	No.	No.	
From 500 to 1,000 p.e	103	5	29	137
From 1,001 to 1,999 p.e	62	5	17	84
From 2,000 to 10,000 p.e	59	8	36	103
From 10,001 to 15,000 p.e	9	2	6	17
From 15,001 to 50,000 p.e	2	3	15	20
From 50,001 to 150,000 p.e	2	1	4	7
p.e 150,001 and above	0	0	2	2
Total	237	24	109	370

Table 2-5 provides a summary of the number discharges and level of treatment from agglomerations (≥ 500 p.e.) to sensitive areas or the catchment of a sensitive area.

Table 2-5: Discharges to Sensitive Areas for the Year 2007

Class of Agglomeration (p.e.)	Number of discharges to sensitive areas with preliminary or no treatment	Number of Primary Treatment Plants discharging to sensitive areas	Number of secondary treatment plants discharging to sensitive areas		Total number of discharges to sensitive areas
			Without nutrient reduction	With nutrient reduction	
From 500 to 1000	0	6	19	10	35
From 1,001 to 1,999	0	2	9	8	19
From 2,000 to 10,000	3	0	19	17	39
From 10,001 to 15,000	0	0	0	6	6
From 15,001 to 50,000	0	0	1	14	15
From 50,001 to 150,000	1	0	2	2	5
p.e 150,001 and above	0	0	2	0	2
Total	4	8	52	57	121

The largest discharge to a sensitive area for which a treatment plant has not been provided is from Killybegs (Co. Donegal) with an estimated population equivalent of 92,000 p.e.

2.2 The Level of Effluent Monitoring Completed

An overview of the number and type of samples taken by local authorities during 2007 is provided in Table 2-6. There has been an increase in the total number of results returned to the EPA for BOD, COD, TSS and Total P compared with the 2004/2005 reporting period. Despite the increase in the number of samples returned to the EPA many local authorities are still not carrying out the minimum sampling frequencies as set out in the Regulations. Again it must be stressed that compliance with the Regulations cannot be achieved if the sampling frequency requirements are not met.

Table 2-6: Number of Analytical Results Reported in 2007

Sample Type	Year	BOD ₅	COD	TSS	Total P	Ortho-P
Inflow	2005	3,626	4,314	4,275	2,459	1,802
	2006	4,446	5,604	5,001	2,817	1,696
	2007	4,073	4,518	4,538	2,575	1,799
Outflow	2005	4,750	5,295	5,492	3,338	2,610
	2006	6,014	7,113	6,643	3,901	2,658
	2007	6,194	7,158	6,747	3,903	2,871

The Regulations specify the minimum number of samples to be taken depending on treatment plant size. A county-by-county account of the number and compliance of outflow samples from secondary waste water treatment plants in 2006 and 2007 is given in Appendix A. An examination of the returns to the Agency indicates that for many plants with a population equivalent greater than 2,000 the required number of samples were not taken during 2007. Plants for which an insufficient number of samples were taken are highlighted on the map in Figure 2-4.



Photograph 2: Flow-proportional or time-based 24-hour samples are required to monitor discharges of effluent.

In addition to the limits set out in the Regulations for BOD, COD and TSS, limits for total phosphorus and total nitrogen also apply for discharges from waste water treatment plants to designated sensitive areas. Table 2-7 presents the results of phosphorus monitoring during 2007 at plants greater than 10,000 p.e discharging to sensitive areas as set out in the 2001 Regulations and the relevant catchment areas of such sensitive areas. The concentration limit (annual mean) for total phosphorus is 2mg/l P for

plants from 10,000 to 100,000 p.e and 1mg/l P for plants greater than 100,000 p.e. The minimum number of samples is 12 for plants 10,000 to 49,999 p.e and 24 for plants greater than 50,000 p.e. Plants that were not compliant with the Regulations are highlighted in red. Twelve agglomerations (see Table 2-7) either failed to meet the standard or the required sampling frequency.

Table 2-7: Phosphorus Monitoring for 2007 at plants greater than 10,000 p.e Discharging to Sensitive Areas as set out in the 2001 Regulations and the Relevant Catchment Areas of such Sensitive Areas

Local Authority	Treatment Plant	No. of samples Total P	Annual mean Total P mg/l
Carlow County Council	Mortarstown	20	0.73
Cavan County Council	Cavan	13	0.37
Cork City Council	Cork City	1	5.69
Cork County North	Fermoy	14	1.27
Cork County North	Mallow	12	2.17
Cork County South	Midleton	13	0.37
Dublin City Council	Ringsend	101	3.63
Fingal County Council	Swords	40	1.62
Kerry County Council	Killarney	51	0.25
Kildare County Council	Athy	15	1.59
Kildare County Council	Leixlip	39	0.79
Kildare County Council	Osberstown	279	1.36
Kilkenny County Council	Purcellsinch	35	5.56
Laois County Council	Portlaoise	18	4.47
Longford County Council	Longford	12	0.75
Louth County Council	Dundalk	7	1.70
Mayo County Council	Castlebar	11	0.31
Meath County Council	Navan	11	2.52
Meath County Council	Trim	10	0.47
Monaghan County Council	Carrickmacross	11	1.14
Monaghan County Council	Castleblayney	12	0.77
Monaghan County Council	Monaghan	12	1.33
Offaly County Council	Birr	12	1.03
Offaly County Council	Tullamore	16	0.82
Tipperary N.R. Co. Co.	Nenagh	13	0.71
Tipperary N.R. Co. Co.	Roscrea	12	1.26
Tipperary N.R. Co. Co.	Thurles	12	2.44
Tipperary S.R. Co. Co.	Clonmel	48	0.90
Westmeath County Council	Athlone	7	1.91
Westmeath County Council	Mullingar	12	0.40
Wexford County Council	Enniscorthy	12	3.03
Wexford County Council	Wexford	22	0.33

2.3 The level of Compliance of Waste Water Treatment Plants

The overall compliance of secondary treatment plants with the Urban Waste Water Treatment Regulations is mapped in Figure 2-1. Details of the compliance of secondary treatment plants with the effluent limits only are mapped in Figure 2-2 and Figure 2-3. A more detailed analysis on the compliance of secondary waste water treatment plants with the effluent limits with respect to Biochemical Oxygen Demand (BOD), Total Suspended Solids (TSS) and Chemical Oxygen Demand (COD) are presented for each local authority in Appendix A. The monitoring results presented have been returned to the EPA by each local authority for secondary treatment plants with a population equivalent of 500 or greater.

2.3.1 Large Waste Water Treatment Plants

A total of 69 out of 167 plants with a population equivalent equal to or greater than 2,000 p.e. discharging to freshwaters and estuaries and greater than or equal to 10,000 p.e discharging to coastal waters complied with the limits set out in the Regulations and met the required sampling frequency (compliance rate of 41%). A quarter of the non-compliances can be attributed to insufficient/non-existent sampling. The locations showing the compliance of secondary waste water treatment plants in this category based on effluent quality and monitoring frequency are shown in Figure 2-1. The locations showing the compliance of secondary treatment plants based on effluent quality alone is shown in Figure 2-2. While the effluent quality from secondary treatment plants may demonstrate compliance with the requirements of the Urban Waste Water Treatment Regulations, storm overflows upstream of the plant may not be in compliance with requirements of the Regulations. Locations where the required level of treatment was not in place during 2007 were shown earlier in Table 2-1.

2.3.2 Small Waste Water Treatment Plants

A total of 48 out of 203 plants with a population equivalent of between 500 p.e. and 2,000 p.e. complied with the limits set out in the Regulations (compliance rate of 24%). The limits set out in the Regulations are used for guidance only to determine the level of performance for each plant in this class. Although there is no requirement for compliance with the absolute limits in the Regulations for these smaller plants, there is however a requirement for the provision of appropriate treatment in order to satisfy the quality standards for the receiving water. The locations showing the compliance of secondary treatment plants in this category based on effluent quality alone is shown in Figure 2-3. The EPA recommends that 6 effluent samples per year are taken for plants in this class. An analysis of the sampling frequencies shows that insufficient/non-existent sampling is accountable for almost a quarter of the failures in plants in this class.



Photograph 3: An example of good quality final treated effluent

Table 2-8 below is a summary of the compliance of local authorities with the overall requirements of the Urban Waste Water Treatment Directive (effluent quality, sampling, provision of treatment). For the purposes of the report the summary includes both large plants that must comply with the effluent standards and small plants where the Directive Standards are used only as guidance values to measure plant performance by the EPA.

Table 2-8: A Summary of the Compliance of Local Authorities with the Overall Requirements of the Urban Waste Water Treatment Directive

Local Authority	Total number of Agglomerations greater than 500 p.e.	Number of Agglomerations with no treatment or only basic treatment	Number of Agglomerations with secondary treatment that failed Standards/Guidance values	Total p.e
Carlow	9	0	5 (56%)	48,030
Cavan	14	0	9 (64%)	29,500
Clare	20	5	11 (73%)	64,140
Cork City	1	0	0	323,000
Cork North	27	0	21 (78%)	61,610
Cork South	21	10	8 (73%)	98,843
Cork West	12	9	3 (100%)	31,280
Donegal	34	22	11 (92%)	180,200
Dublin City	1	0	1 (100%)	2,870,333
DunLaoghaire Rathdown	2	2	N/A	66,700
Fingal	9	5	4 (100%)	171,140
Galway City	1	0	0	91,600
Galway	19	6	10 (77%)	52,467
Kerry	21	9	2 (17%)	133,796
Kildare	14	2	4 (33%)	189,010
Kilkenny	17	4	13 (100%)	138,064
Laois	14	0	14 (100%)	46,159
Leitrim	10	0	1 (10%)	19,360
Limerick City	1	0	1 (100%)	100,000
Limerick	24	3	18 (86%)	42,370
Longford	6	2	0	29,075
Louth	13	2	7 (64%)	202,900
Mayo	25	4	17 (81%)	76,897
Meath	21	1	6 (30%)	66,300
Monaghan	16	0	11 (69%)	74,215
Offaly	12	0	8 (67%)	54,038
Roscommon	11	0	4 (36%)	36,857
Sligo	11	3	7 (88%)	34,413
Tipperary North	11	0	4 (36%)	57,208
Tipperary South	11	1	10 (100%)	61,019
Waterford City	3	3	N/A	146,500
Waterford	12	7	4 (80%)	34,750
Westmeath	13	0	8 (62%)	60,450
Wexford	23	7	14 (88%)	74,135
Wicklow	23	5	17 (94 %)	117,211

Only Longford County Council was fully compliant with the guidance values of the Urban Waste Water Treatment Directive. Counties such as Leitrim, Roscommon and Sligo had low numbers of treatment

plants that failed the requirements of the Directive, and secondary treatment or higher had been provided for all agglomerations greater than 500 p.e in these counties. Table 2-8 also shows that for 6 local authorities, all of the secondary treatment plants failed the requirements of the Directive with regard to effluent quality and sampling and 22 out of 33 local authorities had a failure rate of greater than 50%. For local authorities such as Dun Laoghaire-Rathdown and Waterford City, there were no secondary treatment plants in operation for agglomerations greater than 500 p.e at the end of the reporting period 2006/2007. A more detailed analysis on the compliance of secondary waste water treatment plants is presented in Appendix A.

2.3.3 Compliance Maps

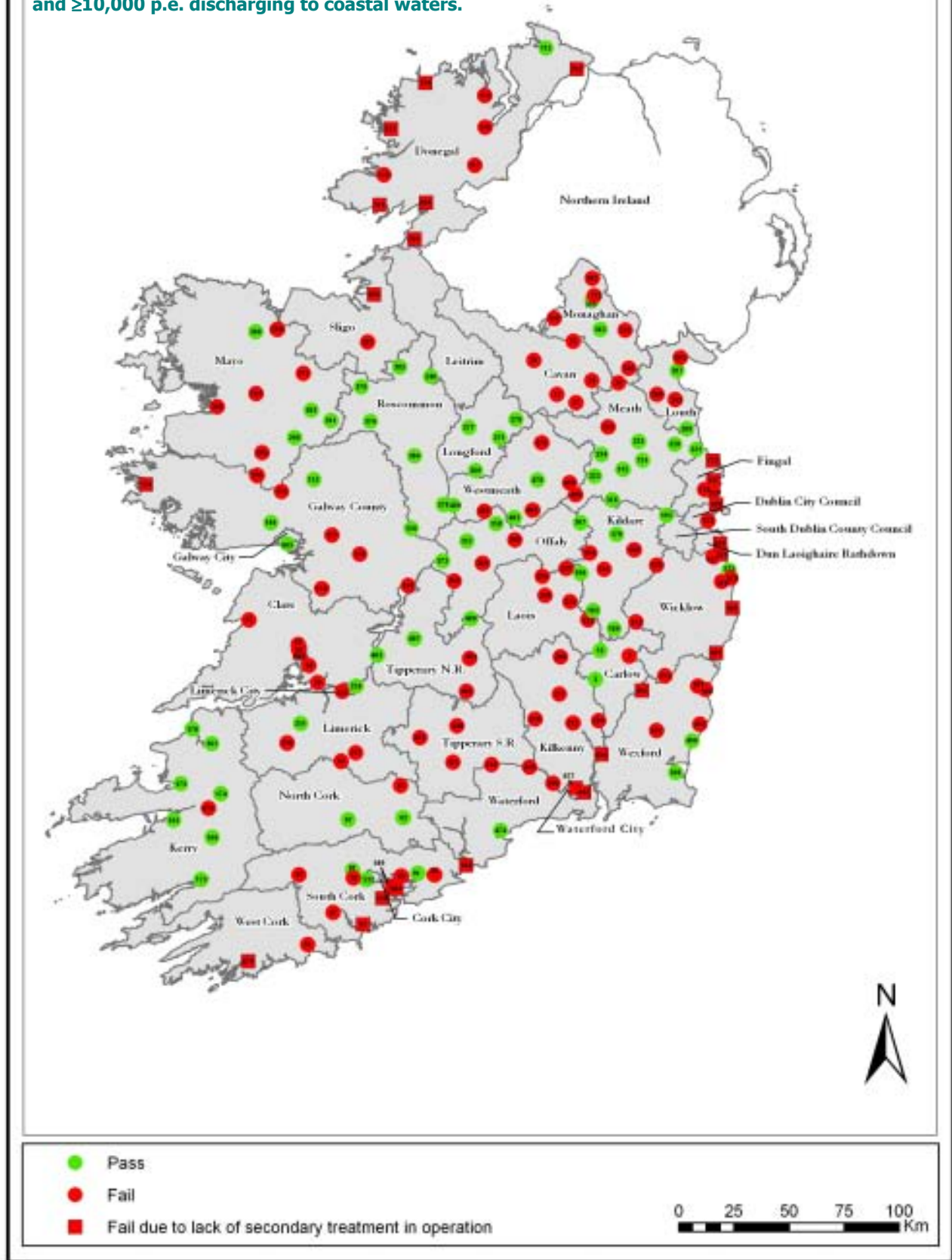
A series of maps is used to illustrate the performance of secondary waste water treatment plants in Ireland in 2007: The details contained on each map is outlined in the following pages. The ID numbers used in maps 2-1 to 2-4 relates to the name of the plant and the full list of plant names is given in Appendix A. Compliance with effluent quality has been determined using the main parameters in the Regulations, BOD, COD and TSS. Phosphorus and nitrogen monitoring results have not been used to determine compliance.

2.3.3.1 Large waste water treatment plants - Compliance with effluent quality and monitoring standards in the Regulations

Figure 2-1 shows the performance of secondary waste water treatment plants with a population equivalent of ≥ 2000 p.e. discharging to freshwaters and estuaries and plants $\geq 10,000$ p.e. discharging to coastal waters during 2007. A pass (green dot) indicates that the plant has complied with both effluent quality standards and monitoring frequency specified in the Urban Waste Water Treatment Regulations, 2001. Treatment plants that fail may have failed due to poor effluent quality or insufficient monitoring frequency or both during 2007 (red dot). Those plants which automatically failed due to a lack of provision of secondary treatment are also included in this map (red square). This allows comparison with the requirements of the Urban Waste Water Treatment Directive. The three agglomerations in Waterford City (see Table 2-1 for details) have been represented as one point on the map (ID No. 445).

Figure 2-1: Large waste water treatment plants:

Compliance with effluent quality and monitoring frequency requirements of the Directive for secondary waste water treatment plants $\geq 2,000$ p.e. discharging to freshwaters and estuaries and $\geq 10,000$ p.e. discharging to coastal waters.

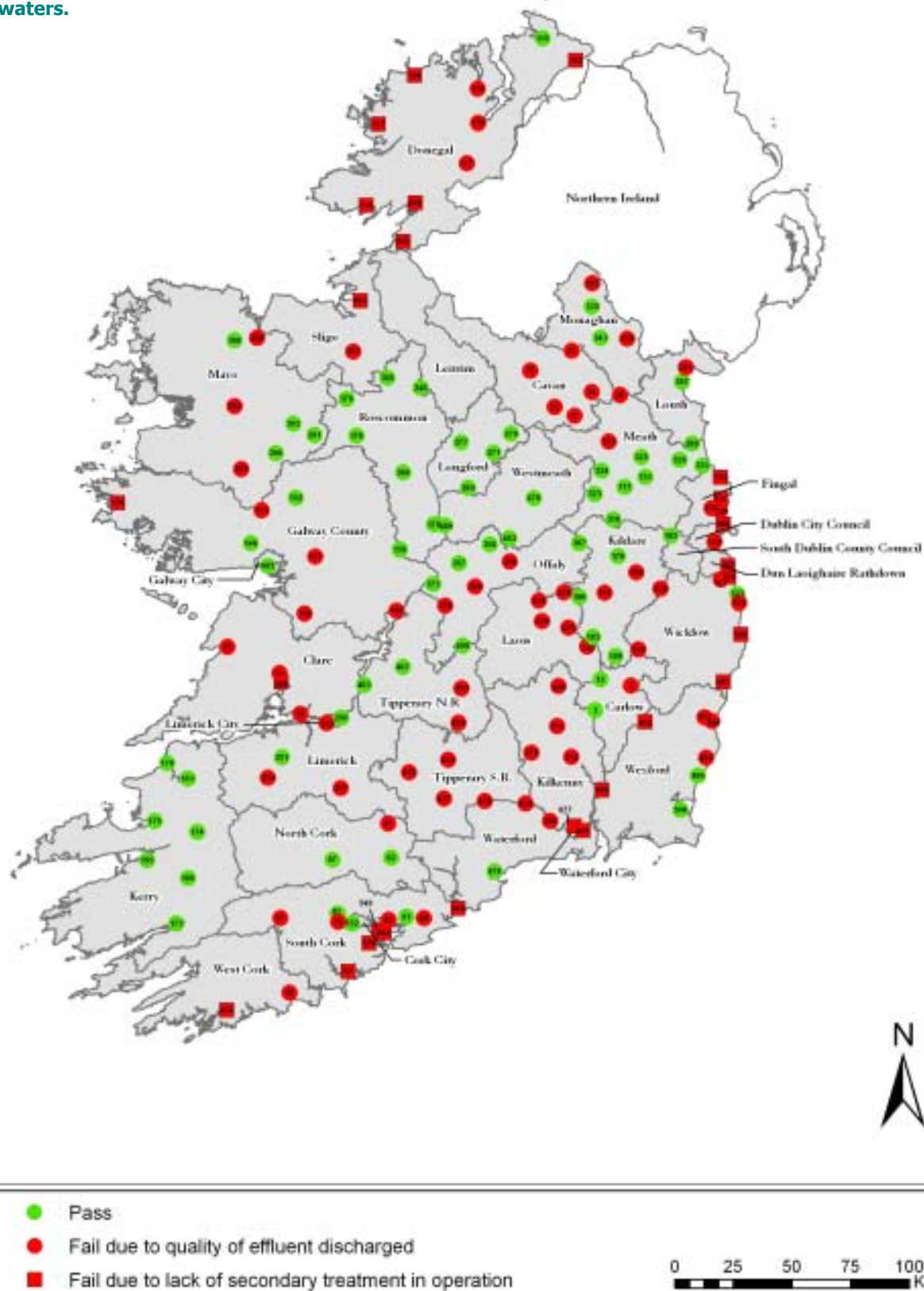


2.3.3.2 Large waste water treatment plants - Compliance with effluent quality standards only

Figure 2-2 shows the performance of secondary waste water treatment plants with a population equivalent of ≥ 2000 p.e. discharging to freshwaters and estuaries and plants $\geq 10,000$ p.e. discharging to coastal waters during 2007 in relation to effluent quality only. The map does not distinguish between plants that had different sampling frequency or take into account plants that did not take the sufficient number of samples. A pass (green dot) indicates that the plant has complied with effluent quality standards as outlined in the Urban Waste Water Treatment Regulations, 2001. A fail (red dot) indicates that the plant did not meet the required effluent quality standards as outlined in the Urban Waste Water Treatment Regulations during 2007. Those plants which automatically failed due to a lack of provision of secondary treatment are also included in this map (red square). This map illustrates compliance for effluent quality for plants that come under the requirements of the Urban Waste Water Treatment Directive. Plants that failed may also have failed on sampling frequency in addition to poor effluent quality. Plants that failed on sampling frequency alone are illustrated in Fig 2-4. The three agglomerations in Waterford City (see Table 2-1 for details) have been represented as one point on the map (ID No. 445).

Figure 2-2: Large waste water treatment plants:

Compliance with effluent quality standards only for secondary waste water treatment plants $\geq 2,000$ p.e. discharging to freshwaters and estuaries and $\geq 10,000$ p.e. discharging to coastal waters.

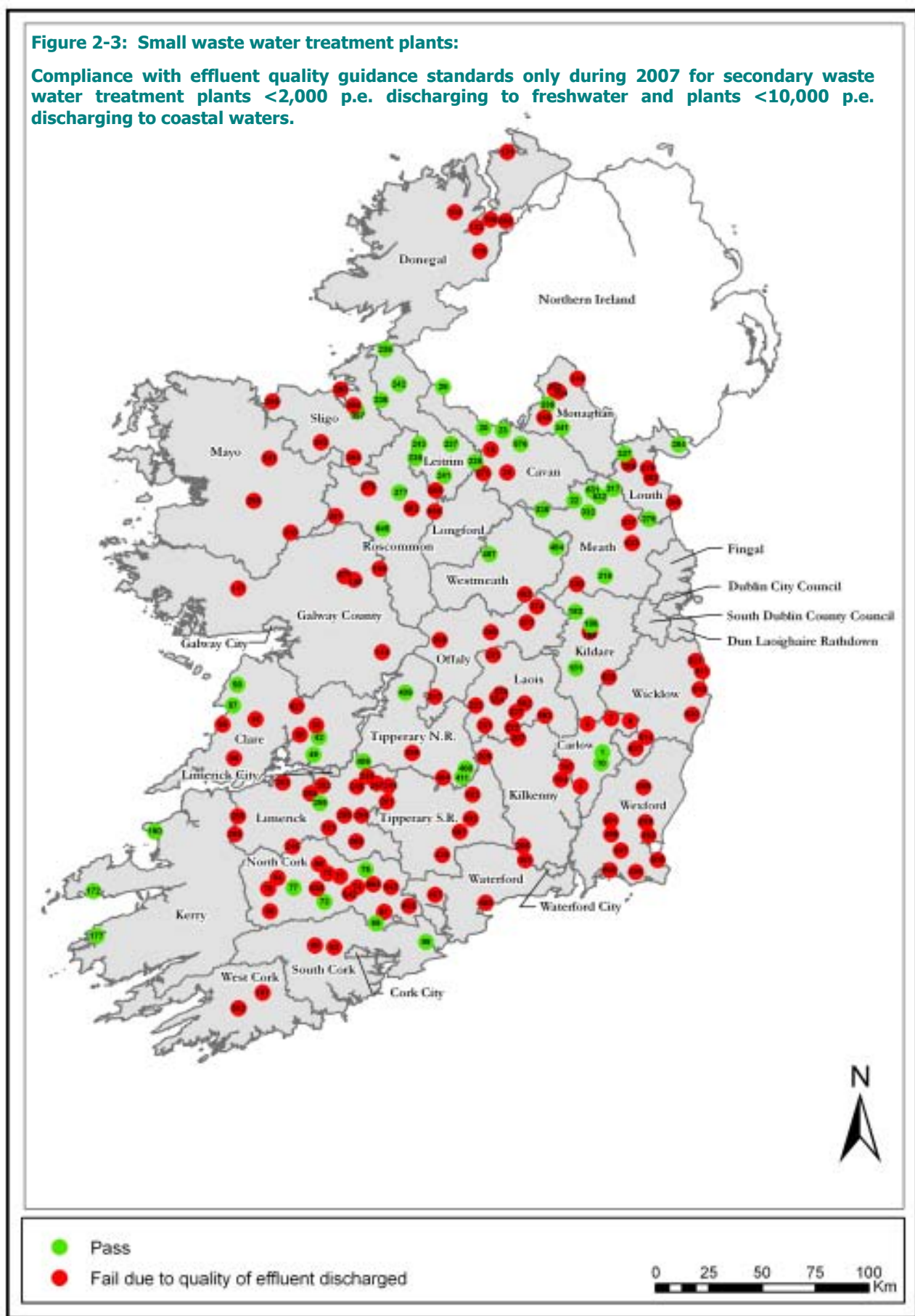


2.3.3.3 Small waste water treatment plants - Compliance with effluent quality guidance standards only

Figure 2-3 shows the performance of secondary waste water treatment plants with a population equivalent of <2000 p.e. discharging to freshwaters and estuaries and plants <10,000 p.e discharging to coastal waters during 2007 in relation to effluent quality only. The map does not distinguish between plants that had different sampling frequency or take into account plants that did not take the sufficient number of samples. Compliance by plant is based on whether the effluent quality was satisfactory using the limits of the Regulations as a guide. The Regulations require appropriate treatment for agglomerations <2,000 p.e. discharging to freshwaters and estuaries and plants <10,000 p.e. discharging to coastal waters and the limits in the Regulations are used as an indication of plant performance. Plants that failed (red dot) may also have failed on sampling frequency in addition to poor effluent quality.

Figure 2-3: Small waste water treatment plants:

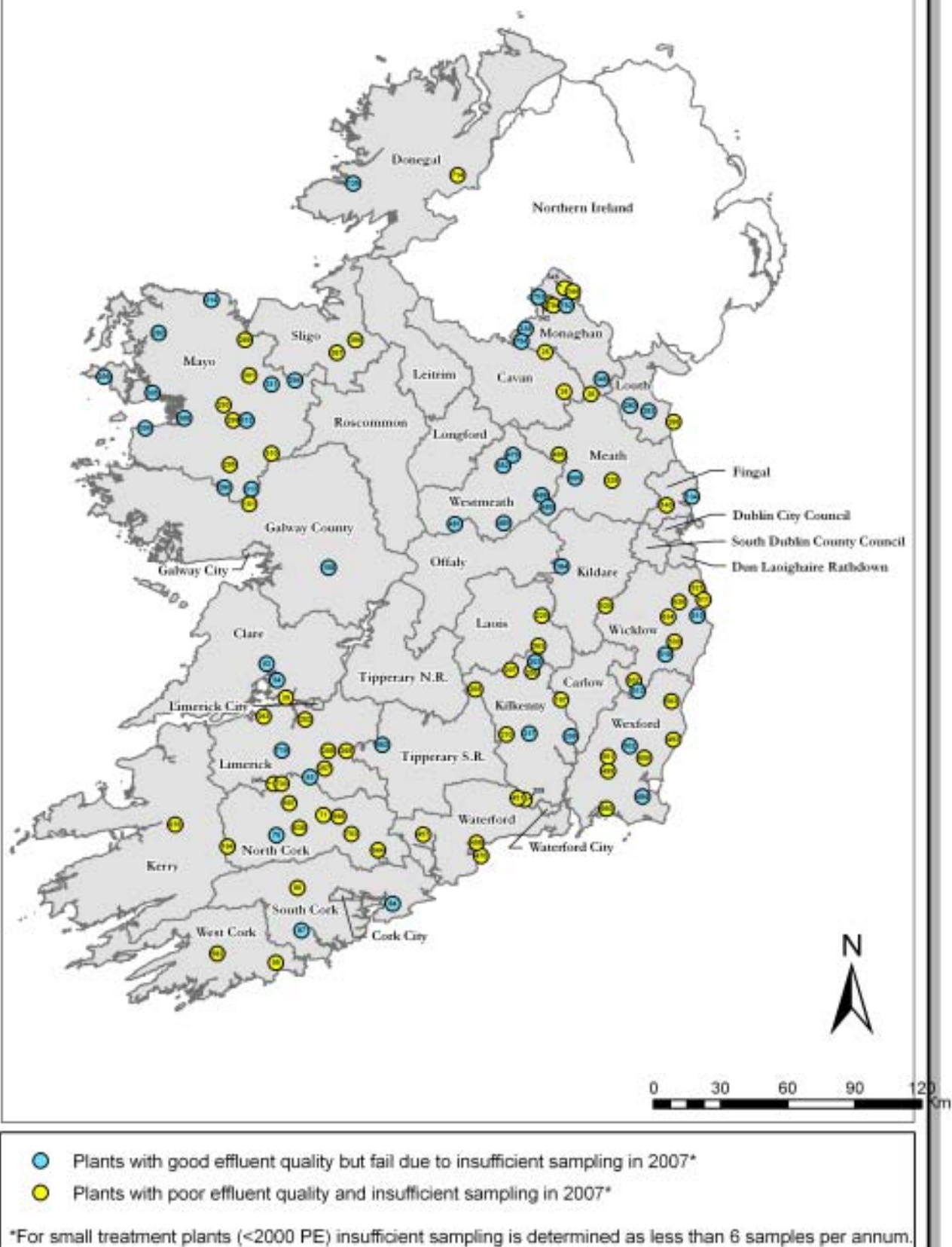
Compliance with effluent quality guidance standards only during 2007 for secondary waste water treatment plants <2,000 p.e. discharging to freshwater and plants <10,000 p.e. discharging to coastal waters.



2.3.3.4 Large and small waste water treatment plants where insufficient numbers of samples were taken

Figure 2-4 shows the secondary waste water treatment plants that did not comply with the Urban Waste Water Treatment Regulations, 2001 due to insufficient sampling numbers in 2007. The map illustrates plants that had good quality effluent but failed to take sufficient samples during 2007 (blue dot). The map also illustrates plants that had poor quality effluent and failed to take sufficient samples during 2007 (yellow dot). In all cases the plant failed based on insufficient monitoring. For secondary waste water treatment plants between 500 and 2000 p.e. insufficient sampling is determined as less than 6 samples taken per annum as the limits do not strictly apply to plants below 2000 p.e. For large secondary waste water treatment plants (≥ 2000 p.e. discharging to freshwaters and $\geq 10,000$ p.e. discharging to coastal waters) the required sample numbers per annum are as determined in the Urban Waste Water Treatment Regulations, 2001.

Figure 2-4: Large and small secondary waste water treatment plants where insufficient numbers of samples were taken during 2007



2.4 Sewage Sludge Management

During 2007 a total of 86,411 tonnes of sewage sludge (dry solids) were reported to have been produced nationally by treatment plants with population equivalent greater than 500 persons. The use of sewage sludge in agriculture has decreased since the last report and now accounts for 70% of the total sludge arisings compared with 76% in 2004/2005 and only 63% in 2002/2003. The destination routes for sewage sludge are set out in Table 2-9 below. The “other or unspecified” category mainly consists of composting. Appendix C lists the total quantity of sewage sludge produced by each county.

Table 2-9: Sewage Sludge Reuse and Disposal Routes 2007 (2005 in Brackets)

	Agriculture	Landfill	Other or Unspecified	Total
Quantity (tds)	60,232 (60,019)	4,554 (8,536)	21,625 (9,004)	86,411 (77,648)
% of Total	70 (77)	5 (11)	25 (12)	100 (100)

Where waste water sludge is used in agriculture the soil and sludge analysis for any treatment plant should be available from each local authority directly and presented in the Sludge Register, which must be available to the public at the offices of the relevant local authority³.



Photograph 4: The Use of Sewage Sludge in Agriculture Accounts for 70% of Sludge Generated.

³ This is a requirement of the Waste Management (Use of Sewage Sludge in Agriculture) (Amendment) Regulations, S.I. No. 267 of 2001.

3. Enforcement

3.1 Audits

The EPA Office of Environmental Enforcement carried out 29 audits of 22 local authorities during 2006 and 2007 to determine the level of compliance with legislation relevant to the management of waste water. In addition, a number of statutory notices in relation to waste water were issued to local authorities during 2006 and 2007. Site inspections were carried out as a follow up to many of the statutory notices issued. Details of EPA investigations, and corrective actions taken by local authorities are described in Section 3.2 below.

3.2 Enforcement Action

The EPA issued a number of waste water related statutory notices to local authorities during 2006 and 2007. These notices were issued under Section 63 of the Environmental Protection Agency Acts, 1992 to 2008 and were used to assess the statutory environmental protection functions of local authorities. Notices were issued following audits and inspections carried out by the Agency or for the investigation of environmental complaints.

A summary of enforcement actions taken by the Agency during 2006 and 2007 in relation to waste water treatment plants is listed in Section 3.5 (Table 3-4, Table 3-5 and Table 3-6). Enforcement actions included the investigation of complaints in relation to odours from waste water treatment plants, investigation of discharges to waters and follow up on bathing waters that failed the mandatory standards.



Photograph 5: Complaints about untreated discharges to surface water were dealt with by the EPA during 2006 and 2007.

Recurring problems identified at waste water treatment plants audited by the EPA include: inadequate collecting systems for waste water (e.g. poorly performing combined sewer overflows); insufficient treatment capacity; poor effluent quality; insufficient sampling frequencies; lack of training for plant operators; poor assimilative capacity for discharged effluent in the receiving waters, and; poor sludge management on site.

It has also been noted that local authorities are inconsistent in their approach to the review and enforcement of trade effluent discharge licences to sewer (Section 4 and Section 16 discharge licences under the Water Pollution Act).

To address these inconsistencies, the Water Services Training Group (WSTG) in conjunction with Office of Environmental Enforcement and the Department of the Environment, Heritage and Local Government are developing guidance, procedures and training on the licensing of discharges to surface waters and to sewer for local authorities. Among other items the project involves developing:

- Procedures and guidance for the technical assessment of licence applications to discharge to surface waters and sewer;
- Guidance and information on the legislative enforcement powers available to Local authorities for the regulation of discharges to surface waters and sewers and how they can be implemented and enforced;
- A series of template enforcement letters/notices that can be utilised by local authorities to enforce their powers in a consistent and uniform manner;
- Guidance notes on applications for licences to assist applicants in the preparation of a submission for a licence to discharge to surface waters and to sewer, and
- Courseware for a training programme aimed at local authority staff on Discharge Licensing to surface waters and sewer.

3.3 Impact of Wastewater Discharges on Rivers

The EPA Water Quality Interim Reports for 2001-2003 listed nineteen locations as seriously polluted, with sewage discharges identified as the suspected source. Seriously polluted sites are those with a biological Q value of 2 or less. Biological monitoring carried out by the EPA in subsequent years has found improvements in the biological quality at fifteen of these locations that were no longer recorded as seriously polluted and therefore had a Q value of greater than 2. These improved sites are listed in Table 3-1. This is a welcome improvement and demonstrates that where the suspected cause has been reduced or removed, an improvement can be achieved within a few seasons. EPA Water Quality reports up to the year 2006 are available at <http://www.epa.ie/downloads/pubs/water/>. The latest report published by the EPA is 'Water Quality in Ireland 2004-2006' and this presents a review of surface and groundwater quality in Ireland for the period 2004 to 2006.

Table 3-1: Water Quality Improvements at Seriously Polluted River Sites Since the Period 2001-2003

County	River Name	Location	Year Improvement in Biological Status Recorded
Clare	Graney (Shannon)	400 m d/s Scarriff Br.	2006
Cork	Blackwater (Munster)	Fermoy Br (LHS)	2006
Cork	Bride (Lee)	Br at Crookstown RHS	2005
Donegal	Corravaddy Burn	Br. Near Bunagee	2007
Donegal	St Johnston	Second Br u/s Foyle River	2004
Kildare	Figile	Br S of Ticknevin Br.	2006
Kildare	Slate	Quigley's Br.	2006
Kildare	Tully Str	Soomeragh Br	2007
Kilkenny	Glory	0.1 km d/s Br. N of Kilmaganny	2007
Laois	Triogue	Kyle bridge	2007
Limerick	Loobagh	North Br, d/s Kilmallock	2006
Longford	Rhine	Br N of Cartron	2005
Offaly	Tullamore	Br. SW of Ballycowan Bridge	2007
Mayo	Loughnaminoe St	Br 600 m d/s Stat 0100	2005
Waterford	Clodiagh	Clonea Br.	2007

The above improvements are mainly due to the upgrade or provision of new waste water treatment plants. Some of the improvements in river quality occurred during the reporting period 2006/2007. Biological monitoring has identified river stations that have been seriously polluted as a result of

municipal waste water. Those stations that were described as seriously polluted by municipal waste water at the end of the reporting period 2006/2007 are presented in Table 3-2 and it can be reported that these sites were also identified as seriously polluted during the 2008 biological assessment season. The only exception was Maggy's Burn in Co. Donegal which improved to 'moderately polluted' in the 2008 biological monitoring season. Most sites are long term seriously polluted, for example the river Brosna (Westmeath) has been seriously polluted since the early 1970's.

The EPA is investigating each of these sites using its Section 63 enforcement powers and it is planned that a number of these sites will be further inspected by the EPA in addition to annual biological monitoring. The relevant local authorities should further investigate the waste water discharges that are causing the water quality problems in the stretches of river listed in Table 3-2 of this report and take the necessary corrective action in relation to the waste water discharge. In addition to the seriously polluted river sites all bathing water sites failing the mandatory standards also need to be investigated as a matter of priority by the relevant local authorities. During 2007, bathing water areas in Youghal (Co. Cork), Balbriggan (Fingal, Co. Dublin), Clifden (Co. Galway) and Na Forbacha (Co. Galway) failed the Mandatory Standards due to waste water discharges. A summary of EPA enforcement actions at these sites and the actions to be taken by the local authorities is shown in Table 3-6 of this report. Corrective actions, which should immediately be initiated, must include actions to prevent the pollution of the bathing beach by waste water discharges including a review of the plant operation, management and performance. Where necessary, funding should be made available for modification or upgrade works to bring the particular plant into compliance with a view to improving the receiving water quality.

Table 3-2: Seriously Polluted Rivers Impacted by Municipal Waste Water at the end of the Reporting Period 2006/2007

County	River Name	Location	Q value ⁴
Donegal	Maggy's Burn	Just u/s Lough Fern	2
Donegal	Bredagh	Moville Bridge	2
Donegal	Swilly Burn	Br. 1.5km SE of Raphoe	2
Galway	Clarinbridge	Station 300 Br Nr Mulpit	2
Kildare	Tully Stream	Kilberrin Br.	2
Kilkenny	Nore	Thomastown Bridge LHS	2
Laois	Clodiagh	Station 0220 'Just u/s Gorrageh River confluence	2
Limerick	Ahavarraga Stream	Br 0.5 km d/s Priests Br.	1-2
North Tipperary	Borrisoleigh Stream	Br 0.5 km SE of Borrisoleigh	2
Roscommon	Jiggy	Br WSW Ardsallagh Beg on the Hind	2
Sligo	Tubbercurry	Br. 1km W. of Tubbercurry	2
Westmeath	Brosna	Butlers Bridge	2
Wexford	Aughboy	Riverchapel Br.	2

3.4 Licencing and Authorisation of Waste Water Discharge Authorisations by the EPA

A system for the licensing or certification of waste water discharges from areas served by local authority sewer networks was brought into effect on 27th September 2007 with the introduction of the Waste Water Discharge (Authorisation) Regulations, 2007. Local authorities are required to apply to the EPA for a licence or certificate of authorisation by set dates depending on the population equivalent of the area served by the network. Table 3-3 shows the prescribed dates for the period of licencing.

⁴. 'Q values' are determined by biological monitoring and are based primarily on the relative proportions of pollution sensitive to tolerant macroinvertebrates resident at a river site. Red Dot sites are seriously polluted river stretches of Q-value 2 or less and are so-called because they appear as red dots on the EPA *Water Quality in Ireland* maps.

Table 3-3: Number of Licence Applications Received by the Agency as per Set Dates Prescribed by the Waste Water Discharge Authorisation Regulations, 2007

Agglomeration size	Number of Applications Received	Prescribed date
>10,000	64	14 th Dec 2007
2,001-10,000	147	22 nd Sept 2008
1,001-2000	135	28 th Feb 2009
500-1,000	None to date	22 nd June 2009

The first prescribed date for the submission of applications for agglomerations over 10,000 p.e. was the 14th December 2007. The EPA received 64 applications by this date. The second prescribed date for the receipt of applications for agglomerations sized between 2,001 to 10,000 p.e. was the 22nd September 2008 and the Agency received 147 applications by this date. By May 31st 2009 135 applications had been received for agglomerations sized between 1,001 and 2,000 p.e.

By May 31st 2009 a total of 16 licences had been issued by the Agency. The licences set effluent standards for urban waste water discharges. Discharges from these plants will be regulated and controlled by the EPA. Failure to comply with such standards or any other condition of a licence will result in enforcement action by the EPA up to and including prosecution. Copies of the licences issued are available from the EPA website at: <http://www.epa.ie/terminalfour/wwda2/index.jsp>.

3.5 Summary of Enforcement Actions taken in 2006 and 2007⁵

Table 3-4: Section 63 Notices Issued for Odour Related Issues Initiated in 2006 and 2007

Name of Treatment Plant	Local Authority	Reason for Statutory Notice	Date(s) of Statutory Notice(s)	Other EPA Action in 2006 and 2007	Action Taken/To Be Taken by Local authority
Francis St. Pumping Station	Clare	Odour nuisance	04/08/2006 S.63(1) 23/08/2007 S.63(3)(a)	Site Inspection in 2007	Remediation work to commence in 2009/2010, with completion by 2012.
Carrigrennan	Cork City	Odour nuisance	03/06/2008 S.63(1)	Site Inspection in 2006	Improvement of plant operation leading to a reduction in odour nuisance and complaints.
Ringsend	Dublin City	Odour nuisance	04/04/2005 S.63(1)	Audit of Local Authority in 2007	Completion of Phase 1 of an Odour Action Programme in 2006. Completion of Phase 2 of Programme in 2009.
Athenry	Galway	Odour nuisance	14/07/2006 S.63(1) 24/04/2007 S.63(3)(a) 19/10/2007 S.63(3)(a)	Audit of Local Authority in 2006. Site Inspection and odour assessment in 2007	Progression of interim upgrade works. Review of Athenry Mart discharge licence underway.
Tuam	Galway	Odour nuisance	25/01/2007 S.63(1) 30/04/2007 S.63(3)(a) 05/09/2008 S.63(1)	Audit of local authority in 2007	Progression of odour abatement works.
Loughrea	Galway	Odour nuisance	18/08/2008 S.63(1)		Commissioning of upgraded works is underway.
Mooncoin.	Kilkenny	Odour nuisance	21/09/2006 S.63(1)	Site inspections in 2006 and 2007	Improved plant operation leading to reduction in the persistent odour problems.
Boherlahan	South Tipperary	Odour nuisance	18/08/2006 S.63(1) 02/03/07 S.63(3)(a)	Site inspection in 2007	Review and improvement of plant operation leading to reduced odour problems.

⁵ S.63(1): Report Request issued under Section 63(1) of the Environmental Protection Agency Acts 1992 and 2003.
S.63(3)(a): Advice and Recommendations issued under Section 63(3)(a) of the Environmental Protection Agency Acts 1992 and 2003.
S.63(6): Direction issued under Section 63(6) of the Environmental Protection Agency Acts 1992 and 2003.
S.63(3)(c): Proposed Direction issued under Section 63(3)(c) of the Environmental Protection Agency Acts 1992 and 2003.
S.63(5): Direction issued under Section 63(5) of the Environmental Protection Agency Acts 1992 and 2003.

Table 3-5: Section 63 Notices Issued in 2006 and 2007 Relating to Discharges from Urban Waste Water Treatment Plants

Name of Treatment Plant/Town	Local Authority	Reason for Statutory Notice	Date(s) of Statutory Notice(s)	Other EPA Action in 2006 and 2007	Action Taken/To Be Taken by Local authority
Tullow	Carlow	EPA Urban Waste Water Audit	12/07/2007 S63(3)(a)	Audit of Local Authority in 2007	Upgrade of plant is identified in the 2007-009 Water Services Investment Programme (WSIP).
Ballyjamesduff	Cavan	Poor effluent quality	30/04/2007 S63(1)		Implementation of EPA recommendations by Cavan County Council.
Ballinacollig	Cork	Poor effluent quality	14/05/2007 S63(1) 05/06/2007 S63(3)(a)	Site inspection in 2007	Establishment of programme of works and action plan on site. Waste Water Discharge Licence issued by the EPA on 13/11/2008.
Caol Stream in Skibbereen	Cork	Inadequate waste water treatment infrastructure	11/09/2006 S63(1) 28/05/2007 S63(3)(a) 12/09/2007 S63(3)(a)	Site inspection in 2007	Completion of the Skibbereen Sewerage Scheme (Collection System) eliminated all discharges to the Caol Stream.
Midleton.	Cork	Storm water overflows	01/05/2007 S63(3)(a) 17/08/2007 S63(3)(a)	Site inspections in 2006 and 2007	Remediation of infiltration in the town and the reduction and monitoring of storm water overflows to Owenacurra Estuary.
Kinsale.	Cork	Inadequate waste water treatment infrastructure	08/08/2007 S.63(1)	Site inspection in 2007	Upgrade of the sewerage infrastructure including a sewage treatment plant is underway.
Glenville	Cork	Waste water overflows	17/07/2007 S.63(3)(a)	Site inspection in 2007	Improvement works carried out at the plant.
Pollution at Pollan Bay Beach	Donegal	Pollution of bathing water	25/01/2007 S.63(1)		Source of pollution has closed.
Ringsend	Dublin City	Poor effluent quality	08/06/2007 S.63(1) 08/08/2007 S.63(3)(a)	Audit of Local Authority in 2007	Provision made for extension to the works in the Water Services Investment Programme 2007-2009.
Malahide, Barnageeragh and Lusk	Fingal	EPA Urban Waste Water Audit	01/01/2007 S.63(3)(a)	Audit of Local Authority in 2007	Operational and maintenance works to be carried out at the plants.
Beaverstown Golf Club	Fingal	Waste water overflows	14/11/2007 S.63(1)		Investigation and close out by Fingal County Council.
Galway City overflows	Galway City	Waste water overflows	06/02/2007 S.63(3)(a)		Outstanding network upgrade works approved.
Gort	Galway	Waste water overflows	30/04/2007 S.63(1) 03/07/2007 S.63(3)(a)	Site inspection in 2007	Investigation carried out by Council and review of plant operations carried out.

Name of Treatment Plant/Town	Local Authority	Reason for Statutory Notice	Date(s) of Statutory Notice(s)	Other EPA Action in 2006 and 2007	Action Taken/To Be Taken by Local authority
Clifden	Galway	Poor effluent quality and pollution of bathing water	22/09/2006 S63(6) 16/02/2007 S.63(1) 04/04/2007 S.63(1) 10/07/2008 S 63(3)(c)	Site inspections in 2006 and 2007	Compliance with EPA Direction to improve waste water treatment on site. New waste water treatment plant to be completed by June 2010.
Oughterard	Galway	EPA Site Inspection	16/05/2007 S.63(1)	Site inspection in 2007	Implementation of EPA inspection recommendations.
Headford	Galway	EPA Site Inspection	16/05/2007 S.63(1)	Site inspection in 2007	New treatment plant in operation.
Moycullen	Galway	EPA Site Inspection	16/05/2007 S.63(1)	Site inspection in 2007	New treatment plant in operation.
Clarinbridge	Galway	EPA Site Inspection	18/05/2007 S.63(1)	Site inspection in 2007	Upgrade of sewage scheme to be carried out.
Tarbert Green River	Kerry	Poor effluent quality	04/01/2007 S.63(1) 17/05/2007 S.63(3)(a)		Infrastructural and improvement works carried out at the treatment plant, EPA file closed in 2007.
Waterville	Kerry	Poor effluent quality	04/09/2006 S.63(1)		Upgrade of treatment plant identified in the 2007-2009 Water Services Investment Programme.
Calverstown	Kildare	Poor effluent quality	04/10/2006 S.63(1) 15/11/2006 S.63(3)(a) 12/09/2008 S.63(3)(a)	Site inspection in 2006	Proposal to discharge to larger receiving water by end of 2007.
Osberstown	Kildare	Poor effluent quality	16/06/2006 S.63(1) 28/07/2006 S.63(3)(a) 24/09/2007 S.63(1)	Site inspection in 2007	Investigation carried out by Council and review of plant operations carried out.
Rathcoffey Housing Estate	Kildare	Poor effluent quality	06/10/2008 S.63(1)		Implementation of interim measures to improve plant operation with a view to connecting to a larger sewerage scheme in the future.
Purcellsinch	Kilkenny	Poor effluent quality	02/08/2006 S.63(3)(a) 22/09/2006 S.63(3)(a) 17/11/2006 S.63(5)	Site Inspections in 2006 and 2007	Compliance with EPA Direction to improve management and monitoring of the plant.
Mountcollins	Limerick	Poor effluent quality	28/06/2006 S.63(1) 04/05/2007 S.63(3)(a)	Site inspection in 2007	Review of plant operation undertaken, remedial works carried out and improvement of management practices.

Name of Treatment Plant/Town	Local Authority	Reason for Statutory Notice	Date(s) of Statutory Notice(s)	Other EPA Action in 2006 and 2007	Action Taken/To Be Taken by Local authority
Newtownforbes	Longford	Poor effluent quality	18/05/2006 S.63(1) 15/06/2006 S.63(3)(a) 05/03/2007 S.63(3)(a)	Two site inspections in 2007	Upgrade works to commence in 2009.
Kells	Meath	Waste water overflows	07/08/2007 S.63(3)(a)	Site inspections in 2006 and 2007	Improved operation of the plant. Plans to provide storm water retention and relocation of the discharge point.
Portllington Storm Water Overflows	Offaly	Waste water overflows	24/10/2007 S.63(1)		Investigation carried out, upgrade of the sewerage infrastructure in Portllington is part of the WSIP for 2007-2009 with Laois County Council as the lead Authority.
Tubbercurry	Sligo	EPA Urban Waste Water Audit	03/01/2007 S.63(5) 26/04/2007 S.63(1)	Two site inspections in 2007	Compliance with EPA Direction. Upgrade Tubbercurry WWTP.
Boherlahan	South Tipperary	Waste water overflows	18/08/2006 S.63(1) 02/03/2007 S.63(3)(a) 03/02/2009 S.63(1)	Site inspection in 2007	Remedial measures proposed to upgrade outlet pipe and alleviate flooding.
Overflow from Portlaw Wastewater System	Waterford	Waste water overflows	04/05/2007 S.63(1) 07/06/2007 S.63(3)(a)	Site inspection in 2007	Corrective actions carried out by Waterford County Council.
Knockrower	Waterford	Waste water overflows	09/03/2007 S.63(1) 01/06/2007 S.63(3)(a)	Site inspection in 2007	Corrective actions carried out by Waterford County Council.
Mullingar	Westmeath	EPA Urban Waste Water Audit	09/11/2006 S.63(1) 22/12/2006 S.63(1)	Audit of Local Authority in 2006	Upgrade of the waste water treatment plant and the sewer network due for completion by June 2009. Waste Water Discharge Licence issued by the EPA on 18/11/2008.
New Ross	Wexford	Inadequate waste water treatment infrastructure	29/11/2007 S.63(3)(a)	Site inspection in 2007	Commencement of construction of new plant and sewage system.
Buncloody	Wexford	Inadequate waste water treatment infrastructure	05/06/2007 S.63(1)	Site Inspection 2007	Upgrade of the sewer network and new treatment plant commenced in 2009 for completion in mid 2010.

Table 3-6: Section 63 Notices Issued in 2006 and 2007 for Failed Bathing Water Standards

Name of Bathing Water Area	Local Authority	Reason for Statutory Notice	Date(s) of Statutory Notice(s)	Other EPA Action in 2006 and 2007	Action Taken/To Be Taken by Local authority
Youghal	Cork	Failed EU Mandatory Standard for Faecal Coliforms in 2007	07/02/2008 S.63(1)		Remedial works to the pumping station, pump inspections, sampling of stream and pre-season bacterial monitoring. Construction of Youghal Main Drainage and Wastewater Treatment Plant to start in 2009.
Balbriggan	Fingal	Failed EU Mandatory Standard for Faecal and Total Coliforms in 2006 and 2007	12/03/2007 S.63(1)	Site inspection carried out as part of Audit of Local Authority in 2007	New treatment plant commissioned in 2008 for Balbriggan and Skerries and new pumping station built in Balbriggan.
Malahide	Fingal	Failed EU Mandatory Standard for Total and Faecal Coliforms in 2006	12/03/2007 S. 63(1)	Site inspection carried out as part of Audit of Local Authority in 2007	Installation of new sewers in 2007, action taken to address fats oils and grease loadings to sewer.
Clifden Beach	Galway	Failed EU Mandatory Standard for Total and Faecal Coliforms in 2006 and 2007.	22/09/2006 S.63(6) 16/02/2007 S.63(1) 04/04/2007 S.63(1) 10/07/2008 S.63(3)(c)	Site inspections in 2006 and 2007	New waste water treatment plant to be completed by June 2010.
Na Forbacha	Galway	Failed EU Mandatory Standard for Faecal Coliforms in 2007.	10/05/2006 S.63(1) 02/05/2008 S.63(1)		Installation of new treatment plant and U.V. system at licenced facility. Investigative monitoring, septic tank survey.
Dunmore East	Waterford	Failed EU Mandatory Standard for Faecal Coliforms in 2006.	04/01/2007 S.63(1) 16/05/2007 S.63(3)(a) 05/12/2008 S.63(3)(a)	Site inspection in 2007	Planned diversion of stream away from bathing area. New treatment plant for Dunmore East is to be operational by 2011.
Ardmore	Waterford	Failed EU Mandatory Standard for Faecal Coliforms in 2006. Failed EU Guide values for Faecal Coliforms in 2006. Failed EU Guide values for Total and Faecal Coliforms in 2007.	10/05/2006 S.63(1) 04/10/2006 S.63(3)(a) 05/12/2008 S.63(3)(a)	Site inspection in 2006	New treatment plant for Ardmore is to be operational by 2011.

4. Recommendations

4.1 Level of Treatment Provided

1. The provision of secondary treatment for the twenty four⁶ agglomerations that did not have the required level of treatment at the end of the reporting period should be progressed as a matter of priority. Highest priority should be given to those where serious pollution is occurring.
2. The discharge of untreated waste water to the aquatic environment should become a practice of the past and local authorities should provide appropriate treatment at the 112 locations identified where waste water is being discharged with either no treatment or just basic treatment.

4.2 Treatment Plant Operation

3. Local authorities should review the operation of all urban waste water treatment plants in their functional areas including those below 500 p.e. Corrective action programmes should be developed and implemented for those plants that are failing to meet the effluent quality standards set by the Regulations. Particular priority should be placed on correcting plants whose discharges are causing environmental pollution in the waters to which the effluents discharge. Local authorities need to improve their management and operation of waste water treatment plants in order to prevent water pollution and the health risks associated with the discharge of untreated or poorly treated sewage.
4. Local authorities should invest in the training and re-training of plant operators in order to improve the management and operation of waste water treatment plants.
5. The frequency and volume of storm overflows within each collecting system should be assessed, mapped and ranked in order of polluting potential.
6. Local authorities should determine whether all trade effluent discharges are appropriately licenced and the licences should have requirements for review and improvement. Local authorities should regularly monitor the compliance of existing licences against their permitted discharge allowance.
7. Policy on the use of domestic and commercial food waste disposers (FWDs) should be developed in order to reduce the loading on already overloaded waste water treatment plants. The use of commercial and domestic FWDs and their impact on the Environment was part of an EPA research project: EPA Strive Programme 2007-2013, Examining the Use of Food Waste Disposers, 2008.

4.3 Monitoring and Reporting

7. Close communication and a follow-up procedure should be developed between those responsible for environmental monitoring and the operation and control of the treatment plant to ensure that corrective actions are taken where exceedances occur.
8. Local authorities should ensure that all monitoring and analysis is carried out in accordance with the Regulations for all treatment plants including those that are managed and operated by third parties on behalf of the local authority. A significant increase in compliance with the Directive would be achieved if monitoring frequencies met the minimum frequencies set out in the Regulations.

4.4 Management of Odour and Noise

9. The management of odour and noise from waste water treatment plants should be given particular priority notwithstanding the statutory requirements conferred on local authorities under the European Communities (Waste Water Treatment)(Prevention of Odours and Noise) Regulations, 2005. Each local authority should prepare odour management plans for each treatment plant operated by or on its behalf.

⁶ Table 2-1 provides a list of those agglomerations for which the required level of treatment has not been provided by the end of the reporting period.

4.5 Seriously Polluted Waters

10. The relevant local authorities should further investigate the causes of serious pollution in the stretches of river listed in Table 3-2 of this report and take the necessary corrective action in relation to the discharge. In addition to the seriously polluted river sites, the bathing water sites failing the mandatory standards also need to be investigated and corrective actions put in place. Corrective actions should include in some cases the provision of waste water treatment and in other cases a review of the existing plant operation and performance.
11. In addition to the seriously polluted river sites identified by the EPA, the *at risk waters* as defined by the Water Framework Directive, should also be a priority for protection. The principal waters at risk from discharges include those that have limited assimilative capacity, those that contain sensitive species or habitats and those waters that are used for water abstractions, fisheries, shellfish production or recreation. Discharges to these sensitive waters should be targeted for action by local authorities in the Programme of Measures for each of the River Basin Districts. The protection of drinking water abstractions is an area that should be fully integrated into all relevant aspects of the Water Framework Directive including the monitoring programmes and programme of measures for improvements in waste water management and treatment.

Appendix A: County reports – List of Agglomerations, Level of Treatment & Effluent Quality for 2006 and 2007

Explanatory Note on Colour Coding and Reporting of Effluent Quality

Green is used to highlight samples failing to meet the effluent quality standards at each individual plant. If column two for each parameter (i.e. BOD, COD and TSS) in the county tables presented in Appendix A is shaded green then this indicates a stated number of samples have exceeded the lower limit of the Regulations. If column three for each parameter is shaded green and shows a value greater than zero, the plant has not complied with the mandatory standard requirements of the Regulations. A limited number of samples can fail the lower limit provided that no sample fails the upper limit.

Purple indicates that an insufficient number of samples were taken for the particular plant. The rules governing the sampling requirements for each class of plant above 2,000 p.e. discharging to freshwater or estuaries or above 10,000 p.e. discharging to coastal waters are set out in the Urban Waste Water Treatment Regulations, 2001 and these have been taken into account on an individual basis when evaluating the compliance with the sampling frequencies at each plant. For plants below 2,000 p.e. discharging to freshwater or estuaries or plants below 10,000 p.e. discharging to coastal waters the EPA recommended number of samples is six per annum.

Red is used to highlight the treatment plants that did not meet the overall requirements of the Urban Waste Water Treatment Regulations 2001.

Blue is used in the case of plants under 2,000 p.e. discharging to freshwater or estuarine water and plants under 10,000 p.e. discharging to coastal waters that have been deemed by the EPA to have treatment that is not appropriate based on the effluent results and/or have taken less than the recommended numbers of samples.

For further information on how sample compliance is determined download the report on Urban Waste Water for the years 2004/2005 at the following link:

http://www.epa.ie/downloads/pubs/water/wastewater/uwwt_report_2004_2005.pdf.

In some cases the reported population equivalent of the waste water treatment plant may be different from the agglomeration population equivalent e.g. the agglomeration of Arvagh in County Cavan has a population equivalent of 600 while the effluent quality is reported in the 1,000 – 1,999 p.e. band, as the treatment plant has a design population equivalent of 1,200. For treatment plants and agglomerations below 500 p.e. the corresponding plant or agglomeration may be reported if it has a p.e. over 500.

Agglomerations over 500 p.e. where basic treatment or no treatment was in operation at the end of the reporting period are also listed in Appendix A. **Red font** is used to show the Agglomerations where secondary treatment is required by the Urban Waste Water Treatment Regulations but was not yet in operation at the end of the reporting period. Note also that in all cases appropriate treatment must be provided at all agglomerations over 500 p.e. where secondary treatment is not yet in place.

The ID numbers shown after each plant name relate to the numbers used to identify plants in Figures 2-1 to 2-4.

Level of Treatment & Effluent Quality for 2006

CARLOW COUNTY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2006

Agglomeration	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
		From 500 to 999 PE													
Borris	600	Borris	600	Secondary	Freshwater(R)	Y	4	0	0	4	0	0	4	0	0
Hacketstown	630	Hacketstown	630	Secondary	Freshwater(R)	Y	7	7	7	7	7	6	7	7	2
Rathvilly	500	Rathvilly	500	Secondary	Freshwater(R)	Y	7	7	7	7	7	5	7	5	2
		From 1,000 to 1,999 PE													
Ballon	400	Ballon	1,200	Secondary with NR	Freshwater(R)	N	0			0			0		
		From 2,000 to 10,000 PE													
Muinebheag	4,000	Muinebheag	4,000	Secondary	Freshwater(R)	Y	12	0	0	12	0	0	12	0	0
Tullow	3,900	Tullow	3,900	Secondary	Freshwater(R)	Y	12	0	0	12	0	0	12	0	0
		From 15,001 to 50,000 PE													
Carlow	36,000	Mortarstown	36,000	Secondary	Freshwater(R)	Y	12	0	0	12	0	0	12	0	0

CAVAN COUNTY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2006

Agglomeration	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
		From 500 to 999 PE													
Ballinagh	700	Ballinagh	600	Secondary with nr.	Freshwater(R)	N	4	0	0	4	0	0	4	0	0
Ballyhaise	700	Ballyhaise	905	Secondary	Freshwater(R)	N	4	0	0	4	0	0	4	0	0
Blacklion	600	Blacklion	600	Secondary	Freshwater(L)	N	4	0	0	4	0	0	4	0	0
Killeshandra	600	Killeshandra	900	Secondary	Freshwater(L)	N	4	3	0	4	0	0	4	1	0
Mullagh	950	Mullagh	950	Secondary with nr.	Freshwater(R)	Y	4	0	0	4	0	0	4	0	0
		From 1,000 to 1,999 PE													
Ballyconnell	1,200	Ballyconnell	1,800	Secondary with nr.	Freshwater(R)	N	4	0	0	4	0	0	4	0	0
Arvagh	600	Arvagh	1,200	Secondary with nr.	Freshwater(R)	N	4	0	0	4	0	0	4	0	0
Belturbet	1,950	Belturbet	1,900	Secondary with nr.	Freshwater(R)	N	9	1	0	9	0	0	9	0	0
		From 2,000 to 10,000 PE													
Baileborough	1,900	Baileborough	2,000	Secondary with nr.	Freshwater(R)	Y	4	0	0	4	0	0	4	0	0
Cootehill	1,700	Cootehill	3,000	Secondary with nr.	Freshwater(R)	N	4	0	0	4	0	0	4	0	0
Ballyjamesduff							11	0	0	11	0	0	11	0	0
(2005 corrected results in brackets)	1,400	Ballyjamesduff	3,000	Secondary with nr.	Freshwater(R)	Y	(12)	0	0	(12)	0	0	(12)	0	0
Virginia	1,400	Virginia	3,000	Secondary with nr.	Freshwater(L)	Y	4	0	0	4	0	0	4	0	0
Kingscourt	1,950	Kingscourt	2,000	Secondary	Freshwater(R)	N	5	2	0	4	1	0	5	0	0
		From 15,001 to 50,000 PE													
Cavan	13,850	Cavan	21,000	Secondary with nr.	Freshwater(R)	Y	13	6	0	14	1	0	14	1	0

CLARE COUNTY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2006

Agglomeration	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
		From 500 to 999 PE													
Inagh	500	Inagh	500	Secondary	Freshwater(R)	N	10	1	1	10	1	1	10	3	1
Crusheen (Galvins)	500	Crusheen (Galvins)	500	Secondary	Freshwater(R)	N	6	2	1	6	0	0	6	5	1
Kilkishen	750	Kilkishen	750	Secondary	Freshwater(R)	N	10	1	0	10	0	0	10	0	0
Kilmihih	640	Kilmihih	640	Secondary	Freshwater(R)	N	12	2	2	12	2	0	12	2	2
Quin	600	Quin	832	Secondary	Freshwater(R)	N	10	1	1	11	0	0	11	3	0
Tulla	720	Tulla	720	Secondary	Freshwater(R)	N	6	3	2	6	3	0	6	5	0
		From 1,000 to 1,999 PE													
Lahinch	8,400	Lahinch	1,500	Secondary	Freshwater(R)	N	11	3	2	11	2	1	11	4	2
Lisdoonvarna	2,500	Lisdoonvarna	1,767	Secondary with nr.	Freshwater(R)	N	10	1	1	10	0	0	10	2	0
Milltown/Malbay	1,360	Milltown/Malbay	1,360	Secondary	Freshwater(R)	N	12	7	1	12	1	0	12	1	0
Sixmilebridge	1,500	Sixmilebridge	1,500	Secondary	Freshwater(R)	N	9	0	0	9	0	0	9	0	0
		From 2,000 to 10,000 PE													
Ennistymon	2,000	Ennistymon	2,000	Secondary	Freshwater(R)	N	10	6	1	10	4	0	10	8	0
Ennis South	4,000	Ennis South	4,000	Secondary	Freshwater(R)	N	11	8	6	11	4	1	11	5	2
Newmarket-on-Fergus	1,940	Newmarket-on-Fergus	2,774	Secondary	Freshwater(L)	N	11	0	0	11	0	0	11	0	0
		From 10,001 to 15,000 PE													
Shannon Town	12,500	Tradaree	12,500	Secondary	Estuarine	N	13	13	5	13	12	3	13	11	4
		From 15,001 to 50,000 PE													
Ennis North	17,000	Ennis North	17,000	Secondary	Freshwater(R)	N	10	0	0	11	0	0	11	1	0

CORK CITY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2006

Agglomeration	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
		> 150,001 PE													
Cork city	323,000	Cork City	413,000	Secondary	Estuarine	Y	260	12	1	260	19	0	260	11	4

CORK (NORTH) COUNTY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2006

Agglomeration	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
		From 500 to 999 PE													
Ballyclough	800	Ballyclough	800	Secondary	Freshwater (R)	N	0			0			0		
Banteer	550	Banteer	550	Secondary	Freshwater (R)	N	0			0			0		
Boherbue	600	Boherbue	600	Secondary	Freshwater (R)	N	1	0	0	1	0	0	1	1	0
Bridesbridge	600	Bridesbridge	600	Secondary	Freshwater (R)	Y	1	1	1	1	1	0	1	1	0
Castletownroche	800	Castletownroche	800	Secondary	Freshwater (R)	N	4	1	1	4	1	0	4	2	1
Conna	800	Conna	800	Secondary	Freshwater (R)	Y	6	4	1	6	1	0	6	1	0
Dromahane	850	Dromahane	850	Secondary	Freshwater (R)	N	4	0	0	4	0	0	4	0	0
Glanworth	800	Glanworth	800	Secondary	Freshwater (R)	N	6	5	3	6	2	1	6	3	2
Kildorrery	550	Kildorrery	550	Secondary	Freshwater (R)	N	5	1	0	5	0	0	5	0	0
Kilworth	800	Kilworth	800	Secondary	Freshwater (R)	N	4	3	2	4	2	1	4	2	2
Rathcormac	600	Rathcormac	600	Secondary	Freshwater (R)	N	9	8	4	9	4	1	9	7	1
		From 1,000 to 1,999 PE													
Millstreet	1,600	Millstreet	1,600	Secondary	Freshwater (R)	N	5	2	0	5	1	0	5	1	1
Buttevant	1,200	Buttevant	1,200	Secondary	Freshwater (R)	N	6	6	5	6	5	3	6	5	0
Doneraile	941	Doneraile	1,100	Secondary	Freshwater (R)	N	0			0			0		
Kanturk	1,700	Kanturk	1,700	Secondary	Freshwater (R)	N	5	0	0	5	0	0	5	0	0
Killavullen	1,000	Killavullen	1,000	Secondary	Freshwater (R)	Y	4	0	0	4	0	0	4	1	0
Newmarket	1,100	Newmarket	1,100	Secondary	Freshwater (R)	N	2	0	0	2	0	0	2	0	0
Watergrasshill	1,500	Watergrasshill	1,500	Secondary with nr.	Freshwater (R)	N	5	0	0	5	0	0	5	0	0
		From 2,000 to 10,000 PE													
Charleville	6,415	Charleville	6,415	Secondary	Freshwater (R)	N	5	0	0	5	0	0	5	0	0
Mitchelstown	6,000	Mitchelstown	6,000	Secondary with nr.	Freshwater (R)	N	12	3	0	12	0	0	12	4	2
		From 10,001 to 15,000 PE													
Fermoy	12,960	Fermoy	12,960	Secondary with nr.	Freshwater (R)	Y	12	0	0	12	0	0	12	0	0
Mallow	12,000	Mallow	12,000	Secondary with nr.	Freshwater (R)	Y	12	0	0	12	0	0	12	4	0

CORK (SOUTH) COUNTY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2006

Agglomeration	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
		From 500 to 999 PE													
Cloyne	510	Cloyne	510	Secondary	Freshwater(R)	N	5	0	0	5	0	0	5	1	0
Cloughroe	600	Cloughroe	600	Secondary	Freshwater(R)	N	5	2	0	5	1	1	5	2	1
Dripsey	600	Dripsey	600	Secondary	Freshwater(R)	N	4	0	0	4	0	0	4	1	0
Killeagh	600	Killeagh	600	Secondary	Freshwater(R)	N	4	0	0	4	0	0	4	0	0
		From 2,000 to 10,000 PE													
Carrigtohill	4,500	Carrigtohill	4,500	Secondary	Estuarine	Y	13	4	1	13	4	0	13	3	0
Bandon	6,200	Bandon	8,000	Secondary	Freshwater(R)	Y	7	0	0	7	0	0	7	0	0
Blarney	8,000	Blarney/Tower	8,000	Secondary	Freshwater(R)	N	7	0	0	7	0	0	7	1	0
Castlemartyr	2,000	Castlemartyr	2,000	Secondary	Freshwater(R)	N	12	1	0	12	1	0	12	5	0
Macroon	5,000	Macroon U.D.C.	5,000	Secondary	Freshwater(R)	N	6	0	0	6	0	0	6	1	1
Midleton	10,000	Midleton	10,000	Secondary with nr.	Estuarine	Y	14	0	0	14	0	0	13	0	0
		From 10,001 to 15,000 PE													
Ballincollig	15,000	Ballincollig New	15,000	Secondary	Freshwater(R)	N	14	0	0	14	0	0	14	0	0

CORK (WEST) COUNTY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2006

Agglomeration	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
		From 500 to 999 PE													
Drimoleague	500	Drimoleague	500	Secondary	Freshwater(R)	N	4	4	1	4	1	0	4	3	0
		From 1,000 to 1,999 PE													
Dunmanway	1,500	Dunmanway	1,500	Secondary	Freshwater(R)	N	10	10	6	10	6	3	10	7	1
		From 10,001 to 15,000 PE													
Clonakilty	15,000	Clonakilty	15,000	Secondary	Estuarine	N	12	0	0	12	0	0	12	1	0

DONEGAL COUNTY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2006

Agglomeration	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
		From 500 to 999 PE													
Kilmacrennan	900	Kilmacrennan	500	Secondary	Freshwater(R)	N	11	10	10	11	9	7	11	10	3
Killea	600	Killea	800	Secondary	Freshwater(R)	N	10	9	8	8	5	2	10	9	3
Killygordon	1,700	Killygordon	1,700	Secondary	Freshwater(R)	N	5	2	0	2	2	1	5	1	3
		From 1,000 to 1,999 PE													
Ardara	2,350	Ardara	1,900	Secondary	Freshwater(R)	N	7	0	0	7	0	0	7	0	0
Ballyliffen	1,000	Ballyliffen	1,000	Secondary	Freshwater(R)	N	9	6	3	9	5	2	9	7	3
Manorcunningham	1,500	Manorcunningham	1,500	Secondary	Estuarine	N	6	2	1	6	2	0	6	1	1
Newtowncunningham	1,600	Newtowncunningham	1,000	Secondary	Freshwater(R)	N	12	2	0	12	2	0	12	3	0
		From 2,000 to 10,000 PE													
Raphoe	2,000	Raphoe	2,000	Secondary	Freshwater(R)	N	12	5	1	12	3	1	12	8	2
Ballybofey/Stranorlar	5,100	Ballybofey/Stranorlar	5,100	Secondary	Freshwater(R)	N	12	1	0	12	2	0	12	3	0
Carndonagh	5,200	Carndonagh	5,200	Secondary	Freshwater(R)	N	12	0	0	12	0	0	12	0	0
Milford	2,000	Milford	2,000	Secondary	Freshwater(R)	N	12	3	3	12	2	2	12	3	3
		From 15,001 to 50,000 PE													
Letterkenny	22,500	Letterkenny	20,000	Secondary	Estuarine	N	12	12	7	12	10	4	12	12	8

DUBLIN CITY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2006

Agglomeration	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
		> 150,001 PE													
Ringsend	2,532,697	Ringsend	1,640,000	Secondary	Estuarine	Y	134	50	21	237	51	12	238	110	44

FINGAL COUNTY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2006

Agglomeration	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
		From 500 to 999 PE													
Toberburr	640	Toberburr	640	Secondary	Freshwater(R)	Y	4	0	0	4	0	0	3	0	0
		From 2,000 to 10,000 PE													
Portrane	8,000	Portrane	8,000	Secondary	Coastal Water	N	3	1	0	4	1	0	4	2	0
		From 15,001 to 50,000 PE													
Malahide	13,000	Malahide	21,000	Secondary	Estuarine	N	36	0	0	38	1	1	37	6	1
		From 50,001 to 150,000 PE													
Swords	50,000	Swords	60,000	Secondary with nr.	Estuarine	Y	37	2	1	38	1	0	32	2	1

GALWAY CITY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2006

Agglomeration	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
		From 50,001 to 150,000 PE													
Galway City WWTW	91,600	Mutton Island	91,600	Secondary	Coastal Water	N	47	3	0	44	1	0	42	3	0

GALWAY COUNTY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2006

Agglomeration	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
		From 500 to 999 PE													
Moylough	328	Moylough	600	Secondary	Coastal Water	N	8	3	1	9	0	0	9	1	0
Ballygar	944	Ballygar	500	Secondary	Freshwater(R)	N	6	4	2	6	2	1	6	5	1
Mountbellew	1,033	Mountbellew	700	Secondary	Freshwater(R)	N	6	3	0	6	0	0	6	3	0
Oughterard	1,731	Oughterard	500	Secondary	Freshwater(R)	N	10	6	0	12	4	0	12	6	1
		From 1,000 to 1,999 PE													
Killimor	500	Killimor	1,010	Secondary	Freshwater(R)	N	6	1	1	6	0	0	6	0	0
		From 2,000 to 10,000 PE													
Gort	4,836	Gort	4,310	Secondary	Freshwater(R)	N	10	8	6	11	8	3	11	8	2
Athenry	3,639	Athenry	2,500	Secondary	Freshwater(R)	N	13	8	5	13	6	2	13	9	4
Ballinasloe	5,667	Ballinasloe	9,000	Secondary with nr.	Freshwater(R)	N	11	2	1	12	0	0	12	1	0
Headford	1,390	Headford	2,100	Secondary	Freshwater(R)	N	12	0	0	12	0	0	11	3	1
Loughrea	6,300	Loughrea	6,300	Secondary with nr.	Freshwater(R)	N	7	1	0	7	1	0	7	1	0
Moycullen	2,500	Moycullen	4,000	Secondary	Freshwater(R)	N	11	1	0	11	0	0	11	0	0
Portumna	2,842	Portumna	7,760	Secondary with nr.	Freshwater(L)	Y	6	2	1	6	2	0	6	3	1
		From 15,001 to 50,000 PE													
Tuam	13,250	Tuam	23,250	Secondary with nr.	Freshwater(R)	N	12	1	0	11	0	0	12	0	0

KERRY COUNTY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2006

Agglomeration	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
		From 500 to 999 PE													
Ardfert	1,000	Ardfert	800	Secondary	Freshwater(R)		0			0			0		
Rathmore	836	Rathmore	500		Freshwater(R)	N	3	0	0	0	0	0	3	0	0
		From 2,000 to 10,000 PE													
Ballybunion	7,520	Ballybunion	8,180	Secondary	Estuarine	Y	32	0	0	34	0	0	32	0	0
Ballyheigue	4,134	Ballyheigue	4,234	Secondary	Coastal Water	N	35	0	0	36	0	0	37	0	0
Cahersiveen	4,225	Cahersiveen	5,000	Secondary	Coastal Water	N	39	0	0	40	0	0	39	1	0
Castleisland	5,681	Castleisland	6,000	Secondary	Freshwater(R)	N	44	0	0	44	0	0	44	0	0
Dingle	6,350	Dingle	8,600	Secondary	Coastal Water	N	43	0	0	43	0	0	43	0	0
Faranfore	2,000	Faranfore	2,000	Secondary	Freshwater(R)	N	0			0			0		
Kenmare	6,768	Kenmare	3,500	Secondary	Estuarine	N	27	1	0	27	0	0	27	2	0
Killorglin	7,184	Killorglin	5,000	Secondary	Freshwater(R)	N	47	0	0	48	0	0	49	0	0
		From 10,001 to 15,000 PE													
Listowel	7,083	Listowel	12,500	Secondary	Freshwater(R)	N	41	0	0	42	0	0	42	0	0
		From 15,001 to 50,000 PE													
Tralee	33,483	Tralee	42,000	Secondary	Coastal Water	N	78	0	0	78	0	0	78	0	0
		From 50,001 to 150,000 PE													
Killarney	32,935	Killarney	51,000	Secondary with nr.	Freshwater(L)	Y	52	0	0	52	0	0	52	0	0

KILDARE COUNTY COUNCIL**Effluent Quality from Secondary Waste Water Treatment Plants in 2006**

Agglomeration	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
		From 500 to 999 PE													
Brownstown	1,500	Brownstown	900	Secondary	Freshwater(L)	N	8	3	2	8	6	1	8	4	1
Derrinturn	500	Derrinturn	500	Secondary	Freshwater(R)	Y	12	6	3	12	6	3	12	10	4
Kilmeague	700	Kilmeague	700	Secondary	Freshwater(R)	Y	13	3	1	13	5	2	13	7	5
Nurney	500	Nurney	500	Secondary with nr.	Freshwater(R)	Y	15	1	0	15	2	0	15	3	1
		From 1,000 to 1,999 PE													
Robertstown	1,000	Robertstown	1,000	Secondary with nr.	Freshwater(R)	Y	16	2	1	16	0	0	15	1	0
		From 2,000 to 10,000 PE													
Kildare Town	5,145	Kildare Town	7,000	Secondary with nr.	Freshwater(R)	Y	19	2	0	19	6	1	19	5	0
Castledermot	1,200	Castledermot	2,400	Secondary with nr.	Freshwater(R)	Y	12	0	0	12	0	0	12	0	0
Coill Dubh	800	Coill Dubh	2,000	Secondary with nr.	Freshwater(R)	Y	12	0	0	13	0	0	13	0	0
Monasterevin	4,926	Monasterevin	9,000	Secondary with nr.	Freshwater(R)	Y	25	0	0	25	0	0	25	0	0
Rathangan	2,000	Rathangan	2,000	Secondary	Freshwater(R)	Y	16	3	2	16	6	3	16	8	4
		From 10,001 to 15,000 PE													
Athy	12,900	Athy	15,000	Secondary with nr.	Freshwater(R)	Y	23	4	0	27	0	0	27	0	0
		From 50,001 to 150,000 PE													
Osberstown	78,043	Osberstown	80,000	Secondary with nr.	Freshwater(R)	Y	222	2	1	234	5	2	234	10	5
Leixlip	59,384	Leixlip	80,000	Secondary with nr.	Freshwater(R)	Y	41	1	0	45	0	0	45	1	0

KILKENNY COUNTY COUNCIL**Effluent Quality from Secondary Waste Water Treatment Plants in 2006**

Agglomeration	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
		From 500 to 999 PE													
Urlingford	1,000	Urlingford	900	Secondary	Freshwater (R)	Y	2	2	2	2	2	2	2	2	2
Gowran	600	Gowran	500	Secondary	Freshwater (R)	Y	3	3	3	3	2	2	3	1	0
Paulstown	800	Paulstown	800	Secondary	Freshwater (R)	Y	3	3	3	3	3	0	3	2	0
Stonyford	350	Stonyford	560	Secondary	Freshwater (R)	Y	2	1	0	2	0	0	2	0	0
		From 1,000 to 1,999 PE													
Ballyragget	900	Ballyragget	1,976	Secondary	Freshwater (R)	Y	1	0	0	1	0	0	1	0	0
Piltown	900	Piltown	1,500	Secondary	Estuarine	Y	6	3	0	6	1	0	3	0	0
		From 2,000 to 10,000 PE													
Callan	2,600	Callan	4,000	Secondary	Freshwater (R)	Y	2	2	1	2	1	0	2	1	0
Castletomer	1,800	Castletomer	2,540	Secondary	Freshwater (R)	Y	7	7	5	7	4	2	5	1	1
Clogh-Moneenroe	650	Clogh-Moneenroe	2,500	Secondary	Freshwater (R)	Y	2	1	0	2	0	0	2	0	0
Graignamanagh	950	Graignamanagh	3,000	Secondary	Freshwater (R)	Y	3	0	0	3	0	0	2	1	0
Thomastown	2,500	Thomastown	3,000	Secondary	Freshwater (R)	Y	6	2	1	6	1	0	5	1	1
		From 50,001 to 150,000 PE													
Kilkenny City	110,000	Kilkenny (Purcellsinch)	107,650	Secondary	Freshwater (R)	Y	293	49	17	293	32	10	289	56	20

LAOIS COUNTY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2006

Agglomeration	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
		From 500 to 999 PE													
Ballyroan	202	Ballyroan	600	Secondary	Freshwater(R)	N	0			0			0		
Borris-in-Ossory	626	Borris-in-Ossory	600	Secondary	Freshwater(R)	Y	10	1	0	10	1	1	10	4	3
Castletown	414	Castletown	500	Secondary	Freshwater(R)	N	0			0			0		
Clonaslee	676	Clonaslee	500	Secondary	Freshwater(R)		11	6	4	10	6	1	11	8	3
The Swan	300	The Swan	700	Secondary	Freshwater(R)	N	0			0			0		
		From 1,000 to 1,999 PE													
Abbeyleix	2,209	Abbeyleix	1,300	Secondary	Freshwater(R)	Y	11	7	5	11	5	3	11	11	7
Durrow	1,308	Durrow	1,308	Secondary	Freshwater(R)	Y	9	9	9	9	9	9	9	9	8
Mountrath	2,184	Mountrath	1,500	Secondary	Freshwater(R)	Y	9	5	2	9	5	2	9	8	2
Rathdowney	1,596	Rathdowney	1,000	Secondary	Freshwater(R)	Y	10	10	3	10	5	1	10	9	2
		From 2,000 to 10,000 PE													
Ballylinan	842	Ballylinan	2,000	Secondary	Freshwater(R)	Y	11	2	0	10	2	1	11	4	2
Mountmellick	5,970	Mountmellick	5,000	Secondary	Freshwater(R)	Y	10	3	2	10	3	2	10	4	3
Portarlinton	7,000	Portarlinton	8,000	Secondary	Freshwater(R)	Y	11	3	1	10	2	2	11	6	5
Stradbally	1,302	Stradbally	2,000	Secondary	Freshwater(R)	Y	12	1	1	10	1	1	12	3	2
		From 15,001 to 50,000 PE													
Portlaoise	20,000	Portlaoise	23,000	Secondary with nr.	Freshwater(R)	Y	32	7	0	174	1	0	159	2	0

LEITRIM COUNTY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2006

Agglomeration	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
		From 500 to 999 PE													
Kinlough	700	Kinlough	700	Secondary with nr.	Freshwater(R)	N	6	0	0	6	0	0	6	1	0
Carrigallen	501	Carrigallen	501	Secondary	Freshwater(L)	N	6	0	0	6	1	1	6	1	1
Dromahair	620	Dromahair	620	Secondary with nr.	Freshwater(R)	N	5	0	0	5	0	0	5	1	0
Dromod	518	Dromod	518	Secondary	Freshwater(L)	N	6	1	1	6	1	0	6	2	1
Drumshanbo	960	Drumshanbo	960	Secondary with nr.	Freshwater(L)	Y	11	0	0	11	1	0	12	1	0
Leitrim Village	501	Leitrim Village	501	Secondary	Freshwater(R)	Y	7	0	0	8	0	0	8	0	0
		From 1,000 to 1,999 PE													
Manorhamilton	1,650	Manorhamilton	1,650	Secondary with nr.	Freshwater(R)	N	11	0	0	11	0	0	11	1	0
Ballinamore	1,380	Ballinamore	1,380	Secondary with nr.	Freshwater(R)	N	11	1	0	10	1	1	11	3	1
Mohill	1,398	Mohill	1,398	Secondary with nr.	Freshwater(R)	N	12	2	1	12	2	2	12	3	2
		From 2,000 to 10,000 PE													
Carrick on Shannon	4,302	Carrick on Shannon	4,302	Secondary	Freshwater(R)	Y	11	9	8	11	9	8	11	10	9

LIMERICK CITY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2006

Agglomeration	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
		From 50,001 to 150,000 PE													
Limerick	100,000	Limerick City	105,000	Secondary	Estuarine	N	24	0	0	24	0	0	24	6	1

LIMERICK COUNTY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2006

Agglomeration	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
		From 500 to 999 PE													
Athea	592	Athea	592	Secondary	Freshwater(R)	N	5	5	5	5	5	5	5	5	3
Cahercomlish	800	Cahercomlish	800	Secondary	Freshwater(R)	N	7	5	3	9	4	1	9	7	1
Cappamore	860	Cappamore	860	Secondary	Freshwater(R)	N	5	4	2	5	3	1	5	3	1
Doon	700	Doon	700	Secondary	Freshwater(R)	N	3	3	3	3	3	2	3	3	1
Dromcollagher	500	Dromcollagher	500	Secondary	Freshwater(R)	N	6	6	4	6	3	2	6	6	2
Kilfinnane	900	Kilfinnane	900	Secondary	Freshwater(R)	N	3	2	2	4	2	1	4	1	1
Murroe	500	Murroe	500	Secondary	Freshwater(R)	N	6	0	0	6	0	0	6	3	2
Oola	500	Oola	500	Secondary	Freshwater(R)	N	7	2	1	7	1	0	7	4	1
		From 1,000 to 1,999 PE													
Abbeyfeale	2,000	Abbeyfeale	1,500	Secondary	Freshwater(R)	N	9	0	0	10	0	0	10	2	0
Adare	1,600	Adare	1,600	Secondary	Estuarine	N	5	5	5	5	5	5	5	5	5
Askeaton	1,024	Askeaton	1,024	Secondary	Estuarine	N	5	5	4	5	5	4	5	5	5
Bruff	1,200	Bruff	1,200	Secondary	Freshwater(R)	N	5	4	4	5	4	3	5	4	3
Croom	1,200	Croom	1,200	Secondary	Freshwater(R)	N	4	0	0	4	0	0	4	0	0
Hospital	1,000	Hospital	1,000	Secondary	Freshwater(R)	N	5	4	4	5	4	4	5	5	1
Patrickswell	1,500	Patrickswell	1,500	Secondary	Freshwater(R)	N	6	6	6	6	6	6	6	6	6
		From 2,000 to 10,000 PE													
Rathkeale	2,000	Rathkeale	2,000	Secondary with nr.	Freshwater(R)	N	12	0	0	14	0	0	14	1	0
Kilmallock	2,400	Kilmallock	2,400	Secondary	Freshwater(R)	N	12	7	4	12	4	1	12	9	1
Newcastle West	6,100	Newcastle West	6,100	Secondary with nr.	Freshwater(R)	N	12	2	0	13	1	0	13	2	1
		From 10,001 to 15,000 PE													
Castletroy	13,000	Castletroy	13,000	Secondary	Freshwater(R)	N	29	0	0	26	1	0	29	2	1

LONGFORD COUNTY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2006

Agglomeration	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
		From 2,000 to 10,000 PE													
Granard	3,200	Granard	3,200	Secondary with nr.	Freshwater(L)	Y	9	0	0	9	0	0	9	3	0
Ballymahon	2,125	Ballymahon	2,125	Secondary with nr.	Freshwater(R)	Y	11	0	0	11	0	0	11	1	0
Edgeworthstown	3,000	Edgeworthstown	3,000	Secondary with nr.	Freshwater(R)	Y	11	0	0	11	0	0	11	0	0
		From 15,001 to 50,000 PE													
Longford	20,000	Longford	20,000	Secondary with nr.	Freshwater(R)	Y	12	0	0	12	0	0	12	1	0

LOUTH COUNTY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2006

Agglomeration	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
		From 500 to 999 PE													
Louth Village	800	Louth Village	550	Secondary	Freshwater(R)	N	6	1	0	6	0	0	6	0	0
		From 1,000 to 1,999 PE													
Carlingford	1,000	Carlingford	1,200	Secondary	Coastal Water	N	6	0	0	6	1	0	6	0	0
Castlebellingham	1,000	Castlebellingham	1,060	Secondary	Freshwater(R)	N	6	1	0	5	1	0	6	2	0
Clogherhead	2,000	Clogherhead	1,150	Secondary	Coastal Water	N	5	2	0	6	0	0	6	3	0
Dromiskin	1,300	Dromiskin	1,200	Secondary	Freshwater(R)	N	6	4	2	6	2	2	6	3	2
Dunleer	1,315	Dunleer	1,350	Secondary	Freshwater(R)	N	6	0	0	6	0	0	6	0	0
Tullyallen	1,000	Tullyallen	1,500	Secondary	Freshwater(R)	N	6	0	0	4	0	0	6	0	0
		From 2,000 to 10,000 PE													
Blackrock	4,815	Blackrock	4,300	Secondary	Estuarine	N	12	2	0	12	0	0	12	0	0
Ardee	5,800	Ardee	4,785	Secondary	Freshwater(R)	N	12	1	0	11	0	0	12	0	0
		From 50,001 to 150,000 PE													
Drogheda	67,700	Drogheda	67,700	Secondary	Estuarine	N	113	0	0	368	2	0	102	1	0
		> 150,001 PE													
Dundalk	179,535	Dundalk	179,535	Secondary	Estuarine	Y	118	5	2	374	11	5	112	10	3

MAYO COUNTY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2006

Agglomeration	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
		From 500 to 999 PE													
Ballindine	243	Ballindine	750	Secondary with nr.	Freshwater(R)	N	2	0	0	2	1	0	2	0	0
Ballycastle	600	Ballycastle	600	Secondary	Freshwater(R)	N	0			0			0		
Belcarra	319	Belcarra	500	Secondary	Freshwater(R)	N	1	1	0	1	1	0	1	0	0
Shrute	374	Shrute	600	Secondary	Freshwater(R)	N	2	0	0	2	0	0	2	0	0
		From 1,000 to 1,999 PE													
Charlestown	1,917	Charlestown	1,200	Secondary	Freshwater(R)	N	1	0	0	1	0	0	1	0	0
Balla	1,309	Balla	1,400	Secondary	Freshwater(R)	N	2	0	0	2	0	0	2	0	0
Bangor Erris	108	Bangor Erris	1,100	Secondary	Freshwater(R)	N	2	0	0	2	0	0	2	0	0
Foxford	1,500	Foxford	1,500	Secondary	Freshwater(R)	N	1	1	1	1	1	0	1	1	0
Louisborough	1,000	Louisborough	1,000	Secondary	Freshwater(R)	N	1	0	0	1	0	0	1	0	0
Mallaranny	1,017	Mallaranny	1,017	Secondary	Coastal Water	N	1	0	0	1	0	0	1	0	0
		From 2,000 to 10,000 PE													
Achill Island Central	1,278	Achill Island Central	4,000	Secondary	Coastal Water	N	11	1	0	11	1	0	11	1	0
Ballinrobe	7,772	Ballinrobe	8,000	Secondary with nr.	Freshwater(R)	N	12	2	0	13	4	0	13	5	2
Ballyhaunis	2,717	Ballyhaunis	4,000	Secondary with nr.	Freshwater(R)	N	12	0	0	13	0	0	13	0	0
Claremorris	3,160	Claremorris	5,333	Secondary with nr.	Freshwater(R)	N	13	0	0	13	0	0	13	0	0
Cong	697	Cong	2,025	Secondary with nr.	Freshwater(L)	N	14	1	0	14	1	1	14	0	0
Crossmolina	1,747	Crossmolina	3,300	Secondary with nr.	Freshwater(R)	N	11	0	0	12	0	0	12	0	0
Knock	1,494	Knock	6,200	Secondary with nr.	Freshwater(R)	N	12	0	0	12	0	0	12	0	0
Swinford	2,659	Swinford	6,500	Secondary with nr.	Freshwater(R)	N	12	0	0	12	0	0	12	0	0
		From 10,001 to 15,000 PE													
Westport	8,385	Westport	15,000	Secondary with nr.	Coastal Water	N	12	0	0	12	0	0	12	0	0
		From 15,001 to 50,000 PE													
Ballina	16,000	Ballina	20,000	Secondary	Estuarine	N	11	1	1	12	2	1	12	3	0
Castlebar	21,520	Castlebar	20,000	Secondary with nr.	Freshwater(R)	Y	12	0	0	12	0	0	12	0	0

MEATH COUNTY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2006

Agglomeration	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
		From 500 to 999 PE													
Summerhill	700	Summerhill	700	Secondary	Freshwater(R)	Y	7	2	1	7	1	0	7	3	1
Carlanstown	600	Carlanstown	600	Secondary with nr.	Freshwater(R)	N	6	0	0	6	0	0	6	0	0
Drumconrath	600	Drumconrath	600	Secondary	Freshwater(R)	N	6	0	0	6	1	0	6	1	1
Kentstown	600	Kentstown	600	Secondary with nr.	Freshwater(R)	N	7	0	0	7	0	0	7	0	0
Kilmainhamwood	500	Kilmainhamwood	500	Secondary	Freshwater(R)	N	7	4	1	7	3	0	7	4	1
Kilmessan	500	Kilmessan	600	Secondary	Freshwater(R)	Y	2	0	0	2	0	0	2	0	0
Nobber	600	Nobber	600	Secondary	Freshwater(R)	N	5	0	0	5	0	0	5	1	0
		From 1,000 to 1,999 PE													
Oldcastle	1,400	Oldcastle	1,500	Secondary	Freshwater(R)	N	14	4	1	14	3	0	14	5	3
Kildalkey	1,500	Kildalkey	1,500	Secondary	Freshwater(R)	N	5	0	0	5	0	0	5	0	0
Longwood	700	Longwood	1,500	Secondary with nr.	Freshwater(R)	Y	12	0	0	12	0	0	12	1	0
Slane	1,500	Slane	1,500	Secondary	Freshwater(R)	N	5	1	0	5	0	0	5	1	0
		From 2,000 to 10,000 PE													
Stamullen	1,800	Stamullen	2,500	Secondary with nr.	Freshwater(R)	N	12	2	0	12	1	0	12	2	0
Athboy	2,500	Athboy	2,500	Secondary	Freshwater(R)	Y	12	5	0	12	1	0	12	3	1
Ballivor	500	Ballivor	2,000	Secondary with nr.	Freshwater(R)	Y	12	3	0	12	0	0	12	5	2
Duleek	2,500	Duleek	2,500	Secondary with nr.	Freshwater(R)	N	13	9	2	13	6	1	13	7	1
Dunshaughlin	4,000	Dunshaughlin	4,500	Secondary with nr.	Freshwater(R)	Y	10	0	0	10	0	0	10	1	0
Enfield	1,800	Johnstown Bridge	3,500	Secondary with nr.	Freshwater(R)	Y	12	0	0	12	0	0	12	1	0
Kells	5,500	Kells	8,000	Secondary	Freshwater(R)	Y	14	0	0	14	0	0	14	0	0
		From 10,001 to 15,000 PE													
Trim	7,500	Trim	12,000	Secondary with nr.	Freshwater(R)	Y	12	0	0	12	0	0	12	0	0
		From 15,001 to 50,000 PE													
Navan	25,000	Navan	40,000	Secondary with nr.	Freshwater(R)	Y	12	0	0	12	0	0	12	0	0

MONAGHAN COUNTY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2006

Agglomeration	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
		From 500 to 999 PE													
Emyvale	764	Emyvale	764	Secondary	Freshwater(R)	N	5	1	0	5	1	0	5	0	0
Glaslough	966	Glaslough	966	Secondary	Freshwater(R)	N	5	1	0	7	0	0	7	0	0
Inniskeen	968	Inniskeen	968	Secondary	Freshwater(R)	Y	12	0	0	12	0	0	12	1	1
Scotstown	528	Scotstown	528	Secondary	Freshwater(R)	Y	6	0	0	7	0	0	5	0	0
Smithboro	1,466	Smithboro	535	Secondary	Freshwater(R)	N	11	1	0	11	0	0	10	0	0
		From 1,000 to 1,999 PE													
Newbliss	1,056	Newbliss	1,056	Secondary	Freshwater(R)	N	12	7	1	12	2	0	12	4	0
		From 2,000 to 10,000 PE													
Clones	3,893	Clones	3,893	Secondary	Freshwater(R)	N	10	1	0	10	0	0	10	0	0
Ballybay	4,528	Ballybay	4,528	Secondary	Freshwater(R)	N	11	1	0	11	0	0	11	0	0
		From 10,001 to 15,000 PE													
Carrickmacross	12,087	Carrickmacross	12,087	Secondary with nr.	Freshwater(R)	Y	12	0	0	12	0	0	12	0	0
Castleblayney	12,920	Castleblayney	12,920	Secondary with nr.	Freshwater(L)	Y	13	0	0	12	0	0	13	0	0
		From 15,001 to 50,000 PE													
Monaghan	30,497	Monaghan	49,500	Secondary with nr.	Freshwater(R)	Y	12	0	0	12	0	0	12	0	0

OFFALY COUNTY COUNCIL**Effluent Quality from Secondary Waste Water Treatment Plants in 2006**

Agglomeration	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
		From 500 to 999 PE													
Daingean	932	Daingean	800	Secondary	Freshwater(R)	N	7	2	1	7	0	0	7	1	1
Cloghan	770	Cloghan	800	Secondary	Freshwater(R)	Y	6	1	0	5	0	0	5	0	0
Mucklagh	750	Mucklagh	800	Secondary	Freshwater(R)	N	7	5	2	7	1	1	7	4	3
Shinrone	800	Shinrone	500	Secondary	Freshwater(R)	N	6	3	1	6	0	0	6	2	0
		From 2,000 to 10,000 PE													
Edenderry	8,500	Edenderry	9,000	Secondary with nr.	Freshwater(R)	Y	8	1	0	9	0	0	9	0	0
Banagher	2,000	Banagher	2,500	Secondary with nr.	Freshwater(R)	Y	7	0	0	10	0	0	10	2	1
Clara	3,500	Clara	4,500	Secondary with nr.	Freshwater(R)	Y	13	0	0	15	0	0	15	0	0
Ferbane	1,650	Ferbane	3,184	Secondary with nr.	Freshwater(R)	Y	10	1	0	12	0	0	12	1	0
Kilcormac	1,480	Kilcormac	2,000	Secondary	Freshwater(R)	Y	6	1	0	6	0	0	6	3	0
		From 10,001 to 15,000 PE													
Birr	9,680	Birr	12,000	Secondary with nr.	Freshwater(R)	Y	11	1	1	12	0	0	12	0	0
		From 15,001 to 50,000 PE													
Tullamore	23,000	Tullamore	16,000	Secondary with nr.	Freshwater(R)	Y	11	2	0	12	0	0	12	2	1

ROSCOMMON COUNTY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2006

Agglomeration	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
		From 500 to 999 PE													
Elphin	1,160	Elphin	800	Secondary	Freshwater(R)	N	10	1	0	10	0	0	10	3	0
Ballinlough	1,250	Ballinlough	800	Secondary with nr.	Freshwater(R)	N	12	0	0	12	0	0	12	2	0
		Ballyleague	500	Secondary	Freshwater(L)	Y	11	0	0	11	0	0	11	0	0
Frenchpark	705	Frenchpark	500	Secondary	Freshwater(R)	N	9	6	5	10	6	0	10	6	2
Tarmonbarry	600	Tarmonbarry	600	Secondary	Freshwater(R)	N	5	3	3	5	3	1	5	5	1
		From 1,000 to 1,999 PE													
Strokestown	1,463	Strokestown	1,000	Secondary	Freshwater(R)	N	10	2	0	10	0	0	9	3	0
		From 2,000 to 10,000 PE													
Ballaghaderreen	3,300	Ballaghaderreen	2,500	Secondary with nr.	Freshwater(R)	N	11	0	0	12	0	0	12	0	0
Boyle	9,833	Boyle	6,000	Secondary with nr.	Freshwater(R)	N	11	0	0	11	0	0	11	0	0
Castlereagh	3,411	Castlereagh	3,000	Secondary with nr.	Freshwater(R)	N	11	0	0	11	0	0	11	0	0
Monksland	11,450	Monksland	8,139	Secondary with nr.	Freshwater(R)	N	10	0	0	10	0	0	10	0	0
Roscommon	7,433	Roscommon	9,550	Secondary with nr.	Freshwater(R)	Y	10	0	0	11	0	0	11	0	0

SLIGO COUNTY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2006

Agglomeration	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
		From 500 to 999 PE													
Gurteen	438	Gurteen	600	Secondary	Freshwater(R)	N	4	1	1	4	2	0	4	2	1
Ballisadare	1,250	Ballisadare	575	Secondary	Estuarine	N	3	0	0	2	0	0	3	0	0
		From 1,000 to 1,999 PE													
Strandhill	1,728	Strandhill	1,500	Secondary	Coastal Water	N	6	6	4	5	4	2	6	6	2
Collooney	1,058	Collooney	1,400	Secondary	Freshwater(R)	N	6	0	0	6	0	0	7	0	0
Enniscrone	2,447	Enniscrone	1,400	Secondary	Coastal Water	N	11	6	2	9	5	1	12	7	2
Tubbercurry	2,154	Tubbercurry	1,400	Secondary	Freshwater(R)	N	12	0	0	10	1	0	13	0	0
		From 2,000 to 10,000 PE													
Ballymote	2,390	Ballymote	3,000	Secondary	Freshwater(R)	N	14	4	1	10	3	0	14	10	2

TIPPERARY NORTH COUNTY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2006

Agglomeration	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
		From 500 to 999 PE													
Newport	700	Newport	700	Secondary	Freshwater(R)	N	6	0	0	6	0	0	6	0	0
Borrisokane	700	Borrisokane	700	Secondary	Freshwater(R)	Y	6	0	0	6	0	0	6	0	0
Holycross	500	Holycross	500	Secondary	Freshwater(R)	Y	6	0	0	6	0	0	6	0	0
Littleton	700	Littleton	700	Secondary	Freshwater(R)	N	6	0	0	6	0	0	6	0	0
Twomile Borris	600	Twomile Borris	600	Secondary	Freshwater(R)	N	7	0	0	7	0	0	7	1	0
		From 1,000 to 1,999 PE													
Borrisoleigh	2,953	Borrisoleigh	1,000	Secondary	Freshwater(R)	Y	12	12	9	12	12	7	12	12	7
		From 2,000 to 10,000 PE													
Templemore	5,000	Templemore	3,500	Secondary	Freshwater(R)	Y	12	12	8	12	5	0	12	12	0
Ballina	3,537	Ballina	3,000	Secondary with nr.	Freshwater(R)	Y	12	0	0	12	0	0	12	0	0
		From 10,001 to 15,000 PE													
Nenagh	12,000	New Nenagh	12,000	Secondary with nr.	Freshwater(R)	Y	12	1	0	12	0	0	12	1	0
Thurles	15,837	Thurles	12,900	Secondary	Freshwater(R)	Y	12	0	0	12	0	0	12	0	0
		From 15,001 to 50,000 PE													
Roscrea	7,160	Roscrea	26,000	Secondary with nr.	Freshwater(R)	Y	13	0	0	13	0	0	13	1	0

TIPPERARY SOUTH COUNTY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2006

Agglomeration	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
		From 500 to 999 PE													
Killenaule	864	Killenaule	864	Secondary	Freshwater(R)	Y	52	0	0	52	0	0	52	0	0
Ballyclerihan	500	Ballyclerihan	500	Secondary with nr.	Freshwater(R)	Y	54	1	0	54	0	0	54	0	0
Limerick Junction	600	Limerick Junction	500	Secondary	Freshwater(R)	N	6	2	1	6	2	0	6	4	0
		From 1,000 to 1,999 PE													
Fethard	1,920	Fethard	1,920	Secondary	Freshwater(R)	Y	53	0	0	53	0	0	53	0	0
		From 2,000 to 10,000 PE													
Cahir	3,000	Cahir	3,000	Secondary	Freshwater(R)	Y	48	0	0	48	0	0	48	0	0
Carrick-on-Suir	6,000	Carrick-on-Suir	6,000	Secondary with nr.	Freshwater(R)	Y	52	0	0	52	0	0	52	4	0
Cashel	2,280	Cashel	2,280	Secondary	Freshwater(R)	Y	53	0	0	53	0	0	53	0	0
Tipperary Town	4,750	Tipperary	4,750	Secondary	Freshwater(R)	Y	52	0	0	52	0	0	52	1	0
		From 15,001 to 50,000 PE													
Clonmel	40,000	Clonmel	40,000	Secondary	Freshwater(R)	Y	54	0	0	54	0	0	54	1	0

WATERFORD COUNTY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2006

Agglomeration	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
		From 500 to 999 PE													
Ballinroad	700	Ballinroad	750	Secondary	Estuarine	N	3	1	0	3	0	0	3	0	0
		From 1,000 to 1,999 PE													
Portlaw	1,500	Portlaw	1,250	Secondary	Freshwater(R)	Y	3	0	0	3	0	0	3	1	1
Lismore	1,600	Lismore	1,500	Secondary	Freshwater(R)	Y	3	0	0	3	0	0	3	0	0
Ring/Helvick/Ballinagoul	600	Ring/Helvick/Ballinagoul	1,000	Secondary	Coastal Water	N	232	66	0	233	47	6	233	134	26
		From 15,001 to 50,000 PE													
Dunganvan	13,000	Dunganvan UDC	20,000	Secondary	Coastal Water	N	235	0	0	237	0	0	237	0	0

WESTMEATH COUNTY COUNCIL**Effluent Quality from Secondary Waste Water Treatment Plants in 2006**

Agglomeration	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
		From 500 to 999 PE													
Clonmellon	500	Clonmellon	500	Secondary	Freshwater(R)	N	13	2	0	5	0	0	12	2	0
Ballynacarrigy	400	Ballynacarrigy	600	Secondary with nr.	Freshwater(R)	N	10	0	0	6	0	0	10	0	0
Multyfarnham		Multyfarnham	700	Secondary	Freshwater(R)	N	12	0	0	6	0	0	11	0	0
		From 1,000 to 1,999 PE													
Delvin	900	Delvin	1,000	Secondary	Freshwater(R)	N	16	0	0	7	0	0	15	2	0
		From 2,000 to 10,000 PE													
Kinnegad	2,800	Kinnegad	4,800	Secondary with nr.	Freshwater(R)	N	12	1	0	6	0	0	12	1	0
Killucan	850	Killucan	2,500	Secondary with nr.	Freshwater(R)	N	14	0	0	6	0	0	14	1	0
Kilbeggan	2,000	Kilbeggan	2,500	Secondary	Freshwater(R)	N	10	0	0	10	0	0	10	0	0
Rochfortbridge	1,700	Rochfortbridge	2,500	Secondary	Freshwater(R)	N	13	9	6	11	6	2	13	10	2
Moate	3,000	Moate	5,000	Secondary with nr.	Freshwater(R)	N	9	2	2	9	2	1	9	2	1
Castlepollard	2,000	Castlepollard	6,500	Secondary with nr.	Freshwater(R)	N	16	0	0	6	0	0	13	0	0
Tyrellspass	800	Tyrellspass	2,000	Secondary with nr.	Freshwater(R)	Y	13	1	0	11	0	0	13	1	1
		From 15,001 to 50,000 PE													
Mullingar	23,000	Mullingar	22,000	Secondary with nr.	Freshwater(R)	Y	12	0	0	12	0	0	12	0	0
Athlone	22,500	Athlone	22,500	Secondary with nr.	Freshwater(R)	Y	12	0	0	12	0	0	12	0	0

WEXFORD COUNTY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2006

Agglomeration	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
		From 500 to 999 PE													
Carrig-on-Bannow	600	Carrig-onBannow	600	Secondary with nr.	Estuarine	N	6	0	0	6	0	0	6	2	1
Adamstown	535	Adamstown	900	Secondary	Freshwater(R)	N	6	1	0	6	0	0	6	1	0
Ballymurn	600	Ballymurn	600	Secondary with nr.	Freshwater(R)	Y	6	0	0	6	0	0	6	0	0
Bridgetown	500	Bridgetown	500	Secondary	Freshwater(R)	Y	6	2	1	6	0	0	6	1	0
Clonroche	1,000	Clonroche	650	Secondary	Freshwater(R)	N	6	0	0	6	0	0	6	2	0
Piercetown	600	Piercetown	800	Secondary with nr.	Freshwater(R)	N	5	0	0	5	0	0	5	1	0
Taghmon	1,000	Taghmon	650	Secondary	Freshwater(R)	N	5	5	5	5	5	3	5	4	1
		From 1,000 to 1,999 PE													
Castlebridge	1,000	Castlebridge	1,750	Secondary	Estuarine	Y	23	5	2	23	0	0	23	5	0
Ferns	1,200	Ferns	1,200	Secondary	Freshwater(R)	Y	6	5	5	6	5	3	6	6	4
		From 2,000 to 10,000 PE													
Kilmuckridge	1,000	Kilmuckridge	2,000	Secondary	Freshwater(R)	N	14	2	1	14	1	1	14	3	2
Blackwater	1,200	Blackwater	2,000	Secondary	Freshwater(R)	N	14	0	0	14	0	0	14	3	0
Gorey	6,500	Gorey	6,500	Secondary	Freshwater(R)	N	16	3	1	16	0	0	16	2	1
Rosslare Strand	4,000	Rosslare Strand	7,000	Secondary	Coastal Water	N	12	3	1	12	0	0	12	4	1
		From 10,001 to 15,000 PE													
Enniscorthy	8,500	Enniscorthy	14,000	Secondary	Estuarine	Y	10	2	0	10	0	0	10	1	0
Courtown/River	10,000	Courtown/Riverchapel	12,000	Secondary	Coastal Water	N	30	8	3	30	1	0	30	2	0
		From 15,001 to 50,000 PE													
Wexford town	17,000	Wexford town	30,000	Secondary with nr.	Estuarine	Y	131	1	0	225	0	0	216	0	0

WICKLOW COUNTY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2006

Agglomeration	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
		From 500 to 999 PE													
Ballinaclash	300	Ballinaclash	900	Secondary with nr	Freshwater(R)		0			0			0		
Dunlavin Milltown	700	Dunlavin Milltown	600	Secondary	Freshwater(R)	N	3	3	3	3	3	1	3	2	1
Kilpedder	600	Kilpedder	600	Secondary	Freshwater(R)	N	3	2	0	3	1	0	3	3	0
Rathnew	1,530	Rathnew	600	Secondary	Freshwater(R)	N	6	3	3	6	3	3	6	4	3
Redcross	1,040	Redcross	800	Secondary	Freshwater(R)	N	4	1	1	4	1	1	4	1	0
Shillelagh	550	Shillelagh	800	Secondary	Freshwater(R)	N	4	4	2	4	1	1	4	4	1
		From 1,000 to 1,999 PE													
Ashford	1,090	Ashford	1,090	Secondary	Freshwater(R)	N	3	0	0	3	0	0	3	0	0
Aughrim	1,112	Aughrim	1,200	Secondary	Freshwater(R)	N	4	0	0	4	0	0	4	0	0
Laragh	500	Laragh	1,000	Secondary	Freshwater(R)	N	2	1	1	2	1	1	2	1	1
Newcastle	1,000	Newcastle	1,000	Secondary	Freshwater(R)	N	3	0	0	3	0	0	3	1	0
Roundwood	1,322	Roundwood	1,600	Secondary	Freshwater(R)	N	2	1	0	2	1	0	2	2	0
Tinahely	1,000	Tinahely	1,200	Secondary	Freshwater(R)	N	3	0	0	3	0	0	3	0	0
		From 2,000 to 10,000 PE													
Baltinglass	3,391	Baltinglass	3,000	Secondary	Freshwater(R)	Y	12	0	0	12	0	0	12	0	0
Blessington	3,200	Blessington	3,000	Secondary	Freshwater(L)	N	18	1	0	18	0	0	18	1	0
		From 2,000 to 10,000 PE													
Carnew	1,800	Carnew	3,000	Secondary	Freshwater(R)	N	5	3	0	5	2	0	5	4	0
Enniskerry	1,800	Enniskerry	3,000	Secondary	Freshwater(R)	N	12	0	0	12	0	0	12	0	0
Kilcoole	2,400	Kilcoole	2,400	Secondary	Freshwater(R)	N	12	0	0	12	0	0	12	0	0
		From 15,001 to 50,000 PE													
Greystones	25,000	Greystones	30,000	Secondary	Coastal Water	N	12	0	0	12	0	0	12	0	0

Level of Treatment & Effluent Quality for 2007

CARLOW COUNTY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2007

Agglomeration (ID. used in Fig. 2.1 to 2.4)	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
		From 500 to 999 PE													
Borris (4)	800	Borris	800	Secondary	Freshwater(R)	Yes	6	2	2	6	2	2	6	1	0
Hacketstown (6)	630	Hacketstown	630	Secondary	Freshwater(R)	Yes	6	6	6	6	6	4	6	6	2
Myshal (10)	800	Myshal	800	Secondary with NR	Freshwater(R)	No	15	0	0	15	0	0	15	1	0
Rathvilly (7)	500	Rathvilly	600	Secondary	Freshwater(R)	Yes	6	5	5	6	5	4	6	5	3
		From 1,000 to 1,999 PE													
Ballon (1)	1,200	Ballon	1,200	Secondary with NR	Freshwater(R)	No	17	2	0	17	0	0	17	0	0
Palatine (9)	200	Palatine	1,000	Secondary	Freshwater(R)	No	6	5	3	6	4	1	6	5	2
		From 2,000 to 10,000 PE													
Muinebheag (3)	4,000	Muinebheag	4,000	Secondary	Freshwater(R)	Yes	19	0	0	19	0	0	19	0	0
Tullow (2)	3,900	Tullow	3,900	Secondary	Freshwater(R)	Yes	18	4	2	18	1	0	18	3	1
		From 15,001 to 50,000 PE													
Carlow (12)	36,000	Mortarstown	36,000	Secondary with NR	Freshwater(R)	Yes	20	2	0	20	0	0	20	0	0

CAVAN COUNTY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2007

Agglomeration (ID. used in Fig. 2.1 to 2.4)	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
		From 500 to 999 PE													
Ballinagh (28)	700	Ballinagh	600	Secondary with NR	Freshwater(R)	No	6	0	0	6	1	0	6	2	0
Ballyhaise (576)	700	Ballyhaise	905	Secondary	Freshwater(R)	No	6	0	0	7	1	0	7	1	0
Blacklion (29)	600	Blacklion	600	Secondary	Freshwater(L)	No	7	1	0	7	0	0	8	0	0
Killeshandra (19)	600	Killeshandra	900	Secondary	Freshwater(L)	No	6	4	0	6	0	0	6	3	0
Mullagh (22)	950	Mullagh	950	Secondary with NR	Freshwater(R)	Yes	12	0	0	14	0	0	14	0	0
		From 1,000 to 1,999 PE													
Anvagh (575)	600	Anvagh	1,200	Secondary with NR	Freshwater(R)	No	6	0	0	6	1	0	6	2	0
Ballyconnell (20)	1,200	Ballyconnell	1,800	Secondary with NR	Freshwater(R)	No	7	1	0	8	0	0	8	1	0
Belturbet (23)	1,950	Belturbet	1,900	Secondary with NR	Freshwater(R)	No	6	0	0	6	0	0	6	1	0
		From 2,000 to 10,000 PE													
Bailieborough (24)	1,900	Bailieborough	2,000	Secondary with NR	Freshwater(R)	Yes	6	2	0	6	0	0	6	0	0
Ballyjamesduff (21)	1,400	Ballyjamesduff	3,000	Secondary with NR	Freshwater(R)	Yes	6	1	1	8	0	0	8	0	0
Cootehill (25)	1,700	Cootehill	3,000	Secondary with NR	Freshwater(R)	No	6	1	1	6	1	0	6	1	0
Kingscourt (26)	1,950	Kingscourt	2,000	Secondary	Freshwater(R)	No	11	9	0	11	1	0	11	1	0
Virginia (27)	1,400	Virginia	3,000	Secondary with NR	Freshwater(L)	Yes	7	2	0	8	0	0	8	1	0
		From 15,001 to 50,000 PE													
Cavan (30)	13,850	Cavan	21,000	Secondary with NR	Freshwater(R)	Yes	14	4	2	14	2	0	15	2	0

CLARE COUNTY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2007

Agglomeration (ID. used in Fig. 2.1 to 2.4)	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
		From 500 to 999 PE												
Crusheen (Galvins) (627)	500	Crusheen (Galvins)	500	Secondary	Freshwater(R)	No	6	3	1	1	0	6	5	2
Inagh (44)	500	Inagh	500	Secondary	Freshwater(R)	No	9	3	1	1	0	10	3	0
Kilkishen (42)	750	Kilkishen	750	Secondary	Freshwater(R)	No	8	0	0	0	0	9	1	0
Kilimihil (56)	640	Kilimihil	640	Secondary	Freshwater(R)	No	10	3	1	1	1	10	2	0
Quin (60)	600	Quin	832	Secondary	Freshwater(R)	No	7	2	1	2	0	10	3	0
Tulla (33)	720	Tulla	720	Secondary	Freshwater(R)	No	6	2	2	2	0	6	3	2
		From 1,000 to 1,999 PE												
Lahinch (57)	8,400	Lahinch	1,500	Secondary	Freshwater(R)	No	8	2	0	0	0	9	2	0
Lisdoonvama (58)	2,500	Lisdoonvama	1,767	Secondary with NR	Freshwater(R)	No	10	2	0	1	0	11	1	0
Milltown/Malbay (59)	1,360	Milltown/Malbay	1,360	Secondary	Freshwater(R)	No	10	5	1	2	0	10	4	0
Sixmilebridge (49)	1,500	Sixmilebridge	1,500	Secondary	Freshwater(R)	No	9	0	0	0	0	10	2	0
		From 2,000 to 10,000 PE												
Ennis South (52)	4,000	Ennis South	4,000	Secondary	Freshwater(R)	No	10	2	0	0	0	10	1	0
Ennistymon (55)	2,000	Ennistymon	2,000	Secondary	Freshwater(R)	No	22	16	7	9	1	25	19	3
Newmarket-on-Fergus (54)	1,940	Newmarket-on-Fergus	2,774	Secondary	Freshwater(L)	No	10	0	0	0	0	12	0	0
		From 10,001 to 15,000 PE												
Shannon Town (39)	12,500	Tradaree	12,500	Secondary	Estuarine	No	9	9	7	9	0	10	10	5
		From 15,001 to 50,000 PE												
Ennis North (51)	17,000	Ennis North	17,000	Secondary	Freshwater(R)	No	40	3	0	2	0	40	6	0

List of Agglomerations Without Secondary Treatment in 2007

Agglomeration (Plant ID used in Fig. 2.1 to 2.4)	Agglomeration PE	Discharge To	Sensitive	Present Treatment
Clarecastle (688)	2,500	Estuarine	No	No treatment
Corofin	500	Freshwater(River)	No	Primary treatment only
Kilkee	1,330	Coastal Water	No	No treatment
Kilrush	2,600	Coastal Water	No	No treatment
Scarriff	1,300	Freshwater(River)	Yes	Primary treatment only

CORK CITY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2007

Agglomeration (ID. used in Fig. 2.1 to 2.4)	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
Cork City (532)	323,000	> 150,001 PE Cork City	413,000	Secondary	Estuarine	Yes	262	10	0	262	16	0	262	5	0

CORK (NORTH) COUNTY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2007

Agglomeration (ID. used in Fig. 2.1 to 2.4)	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
		From 500 to 999 PE													
Ballyclough (638)	800	Ballyclough	800	Secondary	Freshwater(R)	No	4	1	1	4	1	0	4	2	0
Ballyhooley (703)	750	Ballyhooley	750	Secondary	Freshwater(R)	Yes	0			0			0		
Banteer (76)	550	Banteer	550	Secondary	Freshwater(R)	No	3	0	0	3	0	0	3	0	0
Boherbue (70)	600	Boherbue	600	Secondary	Freshwater(R)	No	6	2	1	6	1	0	6	2	0
Bridgesbridge (644)	600	Bridgesbridge	600	Secondary	Freshwater(R)	Yes	0			0			0		
Castletownroche (74)	1,000	Castletownroche	800	Secondary	Freshwater(R)	No	8	4	1	8	3	1	8	6	1
Churchtown (68)	950	Churchtown	700	Secondary	Freshwater(R)	No	6	1	1	6	2	1	6	2	1
Conna (683)	800	Conna	800	Secondary	Freshwater(R)	Yes	11	2	1	11	2	0	11	2	0
Dromahane (73)	850	Dromahane	850	Secondary	Freshwater(R)	No	7	0	0	7	0	0	7	0	0
Glanworth (664)	800	Glanworth	800	Secondary	Freshwater(R)	No	11	11	9	11	7	3	11	7	2
Kildorrery (75)	550	Kildorrery	550	Secondary	Freshwater(R)	No	8	1	0	8	0	0	8	1	0
Kilworth (643)	800	Kilworth	800	Secondary	Freshwater(R)	No	10	9	4	10	4	0	10	4	0
Liscarroll (697)	600	Liscarroll	600	Secondary	Freshwater(R)	No	0			0			0		
Rathcormac (61)	700	Rathcormac	600	Secondary	Freshwater(R)	No	13	7	2	13	2	1	13	4	1
Shanballymore (696)	600	Shanballymore	600	Secondary	Freshwater(R)	No	0			0			0		
		From 1,000 to 1,999 PE													
Milford (700)	1,000	Milford	1,000	Secondary	Freshwater(R)	No	0			0			0		
Buttevant (72)	1,200	Buttevant	1,200	Secondary	Freshwater(R)	No	8	7	5	8	5	3	8	6	2
Doneraile (71)	1,100	Doneraile	1,100	Secondary	Freshwater(R)	No	2	2	2	2	2	2	2	2	2
Kanturk (77)	1,700	Kanturk	1,700	Secondary	Freshwater(R)	No	8	1	0	8	0	0	8	0	0
Killavullen (642)	1,000	Killavullen	1,000	Secondary	Freshwater(R)	Yes	8	5	3	8	3	0	8	2	0
Millstreet (66)	1,600	Millstreet	1,600	Secondary	Freshwater(R)	No	7	2	1	7	1	0	7	1	0
Newmarket (64)	1,600	Newmarket	1,100	Secondary	Freshwater(R)	No	10	3	1	10	3	0	10	4	1
Watergrasshill (69)	3,000	Watergrasshill	1,500	Secondary with NR	Freshwater(R)	No	9	0	0	9	0	0	9	1	0
		From 2,000 to 10,000 PE													
Charleville (63)	7,500	Charleville	6,415	Secondary	Freshwater(R)	No	10	0	0	10	0	0	10	0	0
Mitchelstown (65)	6,000	Mitchelstown	6,000	Secondary with NR	Freshwater(R)	No	15	10	0	15	4	0	15	13	0
		From 10,001 to 15,000 PE													
Fermoy (62)	12,960	Fermoy	12,960	Secondary with NR	Freshwater(R)	Yes	15	0	0	15	0	0	15	0	0
Mallow (67)	12,000	Mallow	12,000	Secondary with NR	Freshwater(R)	Yes	14	0	0	14	0	0	14	0	0

CORK (SOUTH) COUNTY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2007

Agglomeration (ID. used in Fig. 2.1 to 2.4)	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
		From 500 to 999 PE													
Cloughroe (92)	600	Cloughroe	600	Secondary	Freshwater(R)	No	6	4	2	6	2	0	6	6	1
Cloyne (84)	510	Cloyne	510	Secondary	Freshwater(R)	No	5	0	0	5	0	0	5	0	0
Dripsey (80)	600	Dripsey	600	Secondary	Freshwater(R)	No	5	0	0	5	0	0	5	1	1
Killeagh (89)	600	Killeagh	600	Secondary	Freshwater(R)	No	6	0	0	6	0	0	6	0	0
		From 2,000 to 10,000 PE													
Bandon (87)	6,200	Bandon	8,000	Secondary	Freshwater(R)	Yes	9	0	0	9	0	0	9	0	0
Blarney (81)	8,000	Blarney/Tower	8,000	Secondary	Freshwater(R)	No	14	1	0	17	0	0	17	0	0
Carrigtohill (85)	4,500	Carrigtohill	4,500	Secondary	Estuarine	Yes	12	7	3	13	8	5	12	5	2
Castlemartyr (86)	2,000	Castlemartyr	2,000	Secondary	Freshwater(R)	No	12	2	1	12	2	1	12	3	2
Macroom (97)	5,000	Macroom U.D.C.	5,000	Secondary	Freshwater(R)	No	13	2	2	13	2	1	13	3	1
Midleton (91)	10,000	Midleton	10,000	Secondary with NR	Estuarine	Yes	13	0	0	13	0	0	12	0	0
		From 10,001 to 15,000 PE													
Ballincollig New (78)	15,000	Ballincollig New	15,000	Secondary	Freshwater(R)	No	37	4	2	37	4	2	37	7	5

List of Agglomerations Without Secondary Treatment in 2007

Agglomeration (Plant ID used in Fig. 2.1 to 2.4)	Agglomeration PE	Discharge To	Sensitive	Present Treatment
Ballingearry	600	Freshwater(River)	No	Primary treatment only
Ballymakeera	1,800	Freshwater(River)	No	Primary treatment only
Carrigaline (550)	12,000	Estuarine	No	No treatment
Coachford	600	Freshwater(Lake)	No	Primary treatment only
Cobh (684)	10,000	Coastal Water	No	No treatment
Crosshaven	2,000	Coastal Water	No	Preliminary treatment only
Innishannon	833	Freshwater(River)	Yes	Primary treatment only
Kinsale (93)	5,000	Estuarine	Yes	Preliminary treatment only
Passage/Monkstown (549)	5,000	Estuarine	No	No treatment
Youghal (548)	8,000	Estuarine	No	No treatment

CORK (WEST) COUNTY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2007

Agglomeration (ID. used in Fig. 2.1 to 2.4)	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
Drimoleague (582)	500	From 500 to 999 PE Drimoleague	500	Secondary	Freshwater(R)	No	5	5	5	5	5	4	5	5	5
Dunmanway (101)	1,500	From 1,000 to 1,999 PE Dunmanway	1,500	Secondary	Freshwater(R)	No	11	10	7	11	8	3	11	8	2
Clonakilty (99)	15,000	From 10,001 to 15,000 PE Clonakilty	15,000	Secondary	Estuarine	No	11	1	0	12	1	0	12	4	3

List of Agglomerations Without Secondary Treatment in 2007

Agglomeration (Plant ID used in Fig. 2.1 to 2.4)	Agglomeration PE	Discharge To	Sensitive	Present Treatment
Ballydehob	700	Estuarine	No	Primary treatment only
Baltimore	1,150	Coastal Water	No	Primary treatment only
Bantry	2,700	Coastal Water	No	No treatment
Castletownbere	1,100	Coastal Water	No	No treatment
Courtmacsherry	630	Estuarine	No	No treatment
Glengarriff	900	Coastal Water	No	Primary treatment only
Rosscarbery/Owenahincha	2,500	Coastal Water	No	Primary treatment only
Schull	1,100	Coastal Water	No	Primary treatment only
Skibbereen (670)	3,500	Estuarine	No	No treatment

DONEGAL COUNTY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2007

Agglomeration (ID. used in Fig. 2.1 to 2.4)	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
		From 500 to 999 PE												
Kilmacrennan (104)	900	Kilmacrennan	500	Secondary	Freshwater(R)	No	6	5	3	6	5	2	6	1
Killea (656)	800	Killea	800	Secondary	Freshwater(R)	No	6	5	4	6	4	4	6	5
		From 1,000 to 1,999 PE												
Ballyliffen (131)	1,000	Ballyliffen	1,000	Secondary	Freshwater(R)	No	12	8	6	12	7	4	12	3
Killygordon (714)	1,700	Killygordon	1,700	Secondary	Freshwater(R)	No	0			0			0	
Manorcunningham (132)	1,500	Manorcunningham	1,500	Secondary	Estuarine	No	6	2	0	6	1	0	6	1
Newtowncunningham (106)	1,600	Newtowncunningham	1,000	Secondary	Freshwater(R)	No	6	2	0	6	0	0	6	0
Raphoe (119)	2,000	Raphoe	1,000	Secondary	Freshwater(R)	No	12	3	0	12	1	0	12	0
		From 2,000 to 10,000 PE												
Ardara (128)	2,350	Ardara	2,350	Secondary	Freshwater(R)	No	9	0	0	9	0	0	9	0
Ballybofey/Stranorlar (117)	5,100	Ballybofey/Stranorlar	5,100	Secondary	Freshwater(R)	No	12	4	2	12	4	2	12	2
Carndonagh (115)	5,200	Carndonagh	5,200	Secondary	Freshwater(R)	No	12	0	0	12	1	0	12	0
Milford (114)	2,000	Milford	2,000	Secondary	Freshwater(R)	No	12	2	1	12	3	1	12	1
		From 15,001 to 50,000 PE												
Letterkenny (130)	22,500	Letterkenny	20,000	Secondary	Estuarine	No	12	10	7	12	8	3	12	6

List of Agglomerations Without Secondary Treatment in 2007

Agglomeration (Plant ID used in Fig. 2.1 to 2.4)	Agglomeration PE	Discharge To	Sensitive	Present Treatment
Ballyshannon No. 1 Agglomeration (595)	500	Estuarine	No	Primary treatment only
Ballyshannon No. 2 Agglomeration (595)	2,000	Estuarine	No	New secondary treatment plant commissioned in 2008
Ballyshannon No. 2 Agglomeration (595)	500	Estuarine	No	Primary treatment only
Buncrana	5,500	Coastal Water	No	Primary treatment only
Bundoran	9,000	Coastal Water	No	Preliminary treatment only
Carrigart	500	Estuarine	No	Primary treatment only
Castletinn	1,000	Freshwater(River)	No	Primary treatment only
Convoy	1,500	Freshwater(River)	No	Primary treatment only
Donegal Town No. 1 Agglom (608)	5,400	Estuarine	No	New secondary treatment plant commissioned in 2008
Downings	1,000	Coastal Water	No	Primary treatment only
Dunfanaghy/Portnablagh	2,000	Coastal Water	No	Primary treatment only
Dungloe (127)	2,000	Freshwater(River)	No	Primary treatment only
Dunkineoley	1,000	Coastal Water	No	Primary treatment only

DONEGAL COUNTY COUNCIL (continued)

List of Agglomerations Without Secondary Treatment in 2007 (continued)

Agglomeration (Plant ID used in Fig. 2.1 to 2.4)	Agglomeration PE	Discharge To	Sensitive	Present Treatment
Falcarragh (124)	2,000	Estuarine	No	Primary treatment only
Glenties	1,000	Freshwater(River)	No	Primary treatment only
Kilcar	1,000	Coastal Water	No	Preliminary treatment only
Killybegs (116)	92,000	Estuarine	Yes	No treatment
Lifford	1,550	Freshwater(River)	No	Primary treatment only
Moville (765)	2,000	Freshwater(River)	No	No treatment
Ramelton	1,000	Estuarine	No	Primary treatment only
Rathmullan No. 1 Agglom	800	Coastal Water	No	Primary treatment only
Rathmullan No. 2 Agglom	800	Coastal Water	No	Primary treatment only

DUBLIN CITY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2007

Agglomeration (ID, used in Fig. 2.1 to 2.4)	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
Ringsend (133)	2,870,333	> 150,001 PE Ringsend	1,640,000	Secondary	Estuarine	Yes	135	10	2	239	8	1	241	37	6

DUN LAOGHAIRE-RATHDOWN COUNTY COUNCIL

List of Agglomerations Without Secondary Treatment in 2007

Agglomeration (Plant ID used in Fig. 2.1 to 2.4)	Agglomeration PE	Discharge To	Sensitive	Present Treatment
Collimore	1,000	Coastal Water	No	No treatment
Shanganagh (142)	65,700	Coastal Water	No	Preliminary treatment only, secondary treatment plant under construction

FINGAL COUNTY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2007

Agglomeration (ID. used in Fig. 2.1 to 2.4)	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
Toberburr (140)	640	From 500 to 999 PE Toberburr	640	Secondary	Freshwater(R)	Yes	0			0			0		
Portrane (134)	8,000	From 2,000 to 10,000 PE Portrane	8,000	Secondary	Coastal Water	No	4	0	0	5	1	0	5	0	0
Malahide (139)	13,000	From 15,001 to 50,000 PE Malahide	21,000	Secondary	Estuarine	No	40	0	0	41	0	0	41	19	3
Swords (138)	50,000	From 50,001 to 150,000 PE Swords	60,000	Secondary with NR	Estuarine	Yes	40	4	1	40	4	0	41	6	1

List of Agglomerations Without Secondary Treatment in 2007

Agglomeration (Plant ID used in Fig. 2.1 to 2.4)	Agglomeration PE	Discharge To	Sensitive	Present Treatment
Howth/Baldoyle/Portmarnock (686)	18000	Coastal Water	No	No treatment, secondary treatment plant under construction
Balbriggan/Skerries (722)	70,000	Coastal Water	No	New secondary treatment plant commissioned in 2008
Loughshinny	700	Coastal Water	No	Primary treatment only
Lusk (137)	3,000	Estuarine	No	Primary treatment only
Rush	7,800	Coastal Water	No	No treatment

GALWAY CITY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2007

Agglomeration (ID. used in Fig. 2.1 to 2.4)	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50 mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
Galway City (605)	91,600	From 50,001 to 150,000 PE Mutton Island	91,600	Secondary	Coastal Water	No	51	3	0	51	0	0	50	5	0

GALWAY COUNTY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2007

Agglomeration (ID. used in Fig. 2.1 to 2.4)	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
		From 500 to 999 PE													
Ballygar (155)	944	Ballygar	500	Secondary	Freshwater(R)	No	6	5	4	6	4	1	6	5	2
Mountbellew (145)	1,033	Mountbellew	700	Secondary	Freshwater(R)	No	6	4	2	6	4	0	6	5	2
Moylough (675)	328	Moylough	600	Secondary	Freshwater(R)	No	12	2	0	12	1	1	12	4	0
Oughterard (147)	1,731	Oughterard	500	Secondary	Freshwater(R)	No	12	8	1	13	3	0	13	4	0
		From 1,000 to 1,999 PE													
Killimor (144)	500	Killimor	1,010	Secondary	Freshwater(R)	No	6	2	0	6	0	0	6	1	0
		From 2,000 to 10,000 PE													
Athenry (157)	3,639	Athenry	2,500	Secondary	Freshwater(R)	No	12	9	7	13	7	5	13	9	6
Ballinasloe (156)	5,667	Ballinasloe	9,000	Secondary with NR	Freshwater(R)	No	12	0	0	12	0	0	12	0	0
Gort (150)	4,836	Gort	4,310	Secondary	Freshwater(R)	No	13	11	8	12	8	2	13	11	5
Headford (151)	1,390	Headford	2,100	Secondary	Freshwater(R)	No	11	4	1	12	2	0	12	4	2
Loughrea (158)	6,300	Loughrea	6,300	Secondary with NR	Freshwater(R)	No	12	0	0	12	0	0	11	0	0
Moycullen (146)	2,500	Moycullen	4,000	Secondary	Freshwater(R)	No	13	1	0	12	0	0	13	0	0
Portumna (148)	2,842	Portumna	3,100	Secondary with NR	Freshwater(L)	Yes	12	4	0	12	0	0	12	4	0
		From 15,001 to 50,000 PE													
Tuam (152)	13,250	Tuam	23,250	Secondary with NR	Freshwater(R)	No	12	0	0	13	0	0	13	1	0

List of Agglomerations Without Secondary Treatment in 2007

Agglomeration (Plant ID used in Fig. 2.1 to 2.4)	Agglomeration PE	Discharge To	Sensitive	Present Treatment
Ahascragh	560	Freshwater(River)	No	Preliminary treatment only
Clifden (154)	4,063	Estuarine	No	Primary treatment only
Clonbur	554	Freshwater(River)	No	Preliminary treatment only
Dunmore	890	Freshwater(River)	No	Primary treatment only
Eyrecourt	702	Freshwater(River)	No	Primary treatment only
Glenamaddy	738	Freshwater(Lake)	No	Primary treatment only

KERRY COUNTY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2007

Agglomeration (ID. used in Fig. 2.1 to 2.4)	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
		From 500 to 999 PE												
Rathmore (164)	500	Rathmore	500	Secondary	Freshwater(R)	No	0		0			0		
		From 2,000 to 10,000 PE												
Ballybunion (170)	6,100	Ballybunion	8,180	Secondary	Estuarine	Yes	23	0	25	0	0	25	0	0
Ballyheigue (160)	2,802	Ballyheigue	4,234	Secondary	Coastal Water	No	23	0	25	0	0	26	0	0
Cahersiveen (177)	5,063	Cahersiveen	5,000	Secondary	Coastal Water	No	44	0	44	0	0	44	0	0
Castlesland (174)	5,215	Castlesland	6,000	Secondary	Freshwater(R)	No	44	0	42	0	0	44	0	0
An Daingean (172)	8,409	Dingle	8,600	Secondary	Coastal Water	No	42	0	44	0	0	46	0	0
Farranfore (676)	2,000	Farranfore	2,000	Secondary	Freshwater(R)	No	0		0			0		
Kenmare (173)	9,685	Kenmare	3,500	Secondary	Estuarine	No	24	0	24	0	0	24	0	0
Killorglin (165)	7,717	Killorglin	5,000	Secondary	Freshwater(R)	No	41	0	40	0	0	41	0	0
		From 10,001 to 15,000 PE												
Listowel (161)	13,653	Listowel	12,500	Secondary	Freshwater(R)	No	32	0	33	0	0	33	0	0
		From 15,001 to 50,000 PE												
Tralee (175)	27,208	Tralee	42,000	Secondary	Coastal Water	No	76	0	77	0	0	80	0	0
		From 50,001 to 150,000 PE												
Killarney (166)	34,244	Killarney	51,000	Secondary with NR	Freshwater(L)	Yes	51	0	51	0	0	51	0	0

List of Agglomerations Without Secondary Treatment in 2007

Agglomeration (Plant ID used in Fig. 2.1 to 2.4)	Agglomeration PE	Discharge To	Sensitive	Present Treatment
Ardfert	1,500	Freshwater(River)	No	Primary treatment only
Ballyduff	800	Freshwater(River)	Yes	Primary treatment only
Ballyferriter	500	Estuarine	No	Primary treatment only
Ballylongford	900	Estuarine	No	Primary treatment only
Fenit	1,300	Coastal Water	No	Primary treatment only
Glenbeigh	1,900	Freshwater(Lake)	No	Primary treatment only
Sneem	900	Estuarine	No	Primary treatment only
Tarbert	1,400	Estuarine	No	Primary treatment only
Waterville	2,000	Coastal Water	No	Primary treatment only

KILDARE COUNTY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2007

Agglomeration (ID. used in Fig. 2.1 to 2.4)	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
		From 500 to 999 PE													
Derrinturn (192)	500	Derrinturn	500	Secondary	Freshwater(R)	Yes	9	0	0	9	1	0	9	0	0
Kilmeague (185)	700	Kilmeague	700	Secondary	Freshwater(R)	Yes	9	0	0	9	0	0	9	3	0
Nurney (181)	500	Nurney	500	Secondary with NR	Freshwater(R)	Yes	14	0	0	14	1	0	14	1	0
		From 1,000 to 1,999 PE													
Robertstown (186)	1,000	Robertstown	1,000	Secondary with NR	Freshwater(R)	Yes	11	0	0	11	0	0	11	1	0
		From 2,000 to 10,000 PE													
Castledermot (189)	1,500	Castledermot	2,400	Secondary with NR	Freshwater(R)	Yes	15	0	0	15	0	0	15	0	0
Coill Dubh (179)	2,000	Coill Dubh	2,000	Secondary with NR	Freshwater(R)	Yes	12	0	0	12	0	0	12	0	0
Kildare Town (191)	5,172	Kildare Town	7,000	Secondary with NR	Freshwater(R)	Yes	20	3	1	21	2	0	21	10	2
Monasterevin (190)	3,967	Monasterevin	9,000	Secondary with NR	Freshwater(R)	Yes	12	0	0	12	0	0	12	0	0
Rathangan (184)	2,000	Rathangan	2,000	Secondary	Freshwater(R)	Yes	11	0	0	11	0	0	11	1	0
		From 10,001 to 15,000 PE													
Athy (183)	16,800	Athy	15,000	Secondary with NR	Freshwater(R)	Yes	15	0	0	15	0	0	15	0	0
		From 50,001 to 150,000 PE													
Leixlip (193)	58,204	Leixlip	80,000	Secondary with NR	Freshwater(R)	Yes	49	0	0	53	0	0	49	0	0
Osberstown (180)	95,167	Osberstown	80,000	Secondary with NR	Freshwater(R)	Yes	282	22	1	301	28	3	302	119	40

List of Agglomerations Without Secondary Treatment in 2007

Agglomeration (Plant ID used in Fig. 2.1 to 2.4)	Agglomeration PE	Discharge To	Sensitive	Present Treatment
Ballymore Eustace	1,000	Freshwater(River)	No	Primary treatment only
Suncroft	500	Freshwater(River)	No	Primary treatment only

KILKENNY COUNTY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2007

Agglomeration (ID. used in Fig. 2.1 to 2.4)	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
		From 500 to 999 PE													
Gowran (194)	600	Gowran	550	Secondary	Freshwater(R)	No	6	6	5	11	8	2	10	6	1
Stonyford (217)	350	Stonyford	500	Secondary	Freshwater(R)	No	2	0	0	3	0	0	3	0	0
Urlingford (205)	1,500	Urlingford	500	Secondary	Freshwater(R)	Yes	1	1	0	4	1	0	4	3	0
		From 1,000 to 1,999 PE													
Ballyragget (207)	1,920	Ballyragget	1,920	Secondary	Freshwater(R)	Yes	2	0	0	7	2	0	7	3	1
Clogh-Moneenroe (203)	1,740	Clogh-Moneenroe	1,740	Secondary	Freshwater(R)	Yes	4	1	0	4	0	0	4	0	0
Paulstown (197)	1,000	Paulstown	1,000	Secondary	Freshwater(R)	No	5	5	5	11	9	2	10	8	1
Piltown (206)	1,500	Piltown	1,500	Secondary	Estuarine	No	9	7	1	33	0	0	33	1	0
		From 2,000 to 10,000 PE													
Callan (210)	4,000	Callan	4,000	Secondary	Freshwater(R)	Yes	5	2	2	29	3	0	29	10	2
Castletomer (200)	2,540	Castletomer	2,540	Secondary	Freshwater(R)	Yes	10	8	7	32	16	1	32	15	1
Graignamanagh (209)	3,000	Graignamanagh	3,000	Secondary	Freshwater(R)	Yes	3	0	0	8	0	0	8	0	0
Mooncoin (208)	2,800	Mooncoin	2,800	Secondary	Estuarine	Yes	7	7	5	33	3	1	31	14	0
Thomastown (212)	3,000	Thomastown	3,000	Secondary	Freshwater(R)	Yes	12	1	0	33	2	0	33	6	2
		From 50,001 to 150,000 PE													
Kilkenny City and Env (211)	107,650	Kilkenny (Purcellsinch)	107,650	Secondary	Freshwater(R)	Yes	189	30	16	371	32	11	369	62	27

List of Agglomerations Without Secondary Treatment in 2007

Agglomeration (Plant ID used in Fig. 2.1 to 2.4)	Agglomeration PE	Discharge To	Sensitive	Present Treatment
Abbey Park	924	Estuarine	No	Primary treatment only
Bennettsbridge	640	Freshwater(River)	Yes	Primary treatment only
Johnstown	900	Freshwater(River)	No	Primary treatment only
Waterford City Environs (677)	4,000	Estuarine	Yes	New secondary treatment plant to be commissioned in 2009

LAOIS COUNTY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2007

Agglomeration (ID. used in Fig. 2.1 to 2.4)	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD		COD		TSS	
							No. of Samples	No. of samples >25mg/l	No. of samples >125mg/l	No. of samples >250mg/l	No. of samples >35mg/l	No. of samples >87.5mg/l
		From 500 to 999 PE										
Ballyroan (562)	202	Ballyroan	600	Secondary	Freshwater(R)	No	10	6	2	0	9	7
Borris-in-Ossory (223)	626	Borris-in-Ossory	600	Secondary	Freshwater(R)	No	10	4	2	1	10	6
Castletown (224)	414	Castletown	500	Secondary	Freshwater(R)	No	7	5	1	0	7	3
Clonaslee (233)	676	Clonaslee	500	Secondary	Freshwater(R)	No	10	7	6	3	10	8
The Swan (563)	300	The Swan	700	Secondary	Freshwater(R)	No	2	1	0	0	2	0
		From 1,000 to 1,999 PE										
Durrow (222)	1,308	Durrow	1,308	Secondary	Freshwater(R)	No	11	10	11	8	12	12
Rathdowney (231)	1,596	Rathdowney	1,000	Secondary	Freshwater(R)	No	12	9	5	0	12	9
		From 2,000 to 10,000 PE										
Abbeyleix (227)	2,209	Abbeyleix	2,300	Secondary	Freshwater(R)	No	18	9	9	3	19	17
Ballylinan (232)	842	Ballylinan	2,000	Secondary	Freshwater(R)	No	12	2	4	3	12	5
Mountmellick (234)	7,500	Mountmellick	5,000	Secondary	Freshwater(R)	No	27	0	0	0	27	4
Mountrath (230)	2,184	Mountrath	2,300	Secondary	Freshwater(R)	No	18	8	7	2	18	10
Portarlinton (229)	7,000	Portarlinton	8,000	Secondary	Freshwater(R)	No	62	2	1	0	61	24
Stradbally (225)	1,302	Stradbally	2,000	Secondary	Freshwater(R)	No	11	2	2	2	10	4
		From 15,001 to 50,000 PE										
Portlaoise (226)	20,000	Portlaoise	23,000	Secondary with NR	Freshwater(R)	Yes	30	9	8	5	31	14
												8

LEITRIM COUNTY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2007

Agglomeration (ID. used in Fig. 2.1 to 2.4)	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50 mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
		From 500 to 999 PE													
Carrigallen (238)	732	Carrigallen	501	Secondary	Freshwater(L)	No	6	0	0	6	0	0	6	0	0
Dromahair (235)	990	Dromahair	620	Secondary with NR	Freshwater(R)	No	6	0	0	6	0	0	6	0	0
Dromod (658)	626	Dromod	518	Secondary	Freshwater(L)	No	6	0	0	6	0	0	6	4	0
Drumshanbo (243)	1,841	Drumshanbo	960	Secondary with NR	Freshwater(L)	Yes	12	0	0	12	0	0	12	0	0
Kinlough (236)	1,442	Kinlough	700	Secondary with NR	Freshwater(R)	No	6	0	0	6	0	0	6	0	0
Leitrim Village (239)	1,436	Leitrim Village	501	Secondary	Freshwater(R)	Yes	6	0	0	6	0	0	6	0	0
		From 1,000 to 1,999 PE													
Ballinamore (237)	2,514	Ballinamore	1,380	Secondary with NR	Freshwater(R)	No	12	0	0	12	0	0	12	1	0
Manorhamilton (242)	2,559	Manorhamilton	1,650	Secondary with NR	Freshwater(R)	No	13	0	0	13	0	0	13	0	0
Mohill (241)	1,570	Mohill	1,398	Secondary with NR	Freshwater(R)	No	13	0	0	13	0	0	13	0	0
		From 2,000 to 10,000 PE													
Carrick on Shannon (240)	5,650	Carrick on Shannon	4,302	Secondary	Freshwater(R)	Yes	12	0	0	12	0	0	12	2	0

LIMERICK CITY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2007

Agglomeration (ID. used in Fig. 2.1 to 2.4)	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
		From 50,001 to 150,000 PE													
Limerick City (535)	100,000	Limerick City	105,000	Secondary	Estuarine	No	24	1	1	24	1	1	24	6	1

LIMERICK COUNTY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2007

Agglomeration (ID. used in Fig. 2.1 to 2.4)	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
		From 500 to 999 PE													
Athea (255)	592	Athea	592	Secondary	Freshwater(R)	No	7	7	5	8	5	3	8	6	3
Ballingarry (719)	700	Ballingarry	500	Secondary	Freshwater(R)	No	2	0	0	2	0	0	2	0	0
Cahercornlish (246)	800	Cahercornlish	800	Secondary	Freshwater(R)	No	7	1	1	7	1	1	7	1	1
Cappamore (247)	860	Cappamore	860	Secondary	Freshwater(R)	No	17	8	5	17	8	0	17	11	0
Doon (244)	700	Doon	700	Secondary	Freshwater(R)	No	9	8	7	9	9	3	9	9	2
Dromcollagher (245)	500	Dromcollagher	500	Secondary	Freshwater(R)	No	5	5	2	5	5	1	5	4	0
Kilfinnane (260)	900	Kilfinnane	900	Secondary	Freshwater(R)	No	8	0	0	10	2	1	10	1	1
Murroe (249)	500	Murroe	500	Secondary	Freshwater(R)	No	9	8	3	9	5	2	9	5	2
Oola (261)	500	Oola	500	Secondary	Freshwater(R)	No	6	2	0	6	1	0	6	2	0
		From 1,000 to 1,999 PE													
Adare (264)	1,600	Adare	1,600	Secondary	Estuarine	No	16	4	4	16	3	2	16	5	5
Askeaton (263)	1,024	Askeaton	1,024	Secondary	Estuarine	No	5	5	4	6	6	6	6	6	5
Bruff (258)	1,200	Bruff	1,200	Secondary	Freshwater(R)	No	5	2	2	5	4	0	5	3	2
Bruree (721)	800	Bruree	1,200	Secondary with NR	Freshwater(R)	No	6	1	0	6	1	0	6	1	1
Croom (259)	1,200	Croom	1,200	Secondary	Freshwater(R)	No	6	0	0	6	0	0	6	0	0
Hospital (268)	1,000	Hospital	1,000	Secondary	Freshwater(R)	No	5	4	3	6	4	3	5	5	2
Patrickswell (252)	1,500	Patrickswell	1,500	Secondary	Freshwater(R)	No	5	5	5	5	5	5	5	5	5
		From 2,000 to 10,000 PE													
Abbeyfeale (265)	2,000	Abbeyfeale	2,000	Secondary	Freshwater(R)	No	15	3	1	15	4	2	15	3	3
Kilmallock (257)	2,400	Kilmallock	2,400	Secondary	Freshwater(R)	No	10	5	2	11	4	1	11	5	0
Newcastle West (256)	6,100	Newcastle West	6,100	Secondary with NR	Freshwater(R)	No	15	2	1	16	3	1	16	6	2
Rathkeale (251)	2,000	Rathkeale	2,000	Secondary with NR	Freshwater(R)	No	13	1	0	12	0	0	13	1	0
		From 10,001 to 15,000 PE													
Castletroy (250)	13,000	Castletroy	13,000	Secondary	Freshwater(R)	No	22	0	0	22	0	0	22	1	0

List of Agglomerations Without Secondary Treatment in 2007

Agglomeration (Plant ID used in Fig. 2.1 to 2.4)	Agglomeration PE	Discharge To	Sensitive	Present Treatment
Foynes	558	Estuarine	No	No treatment
Glin	1,386	Estuarine	No	No treatment
Pallaskerry	550	Estuarine	No	Preliminary treatment only

LONGFORD COUNTY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2007

Agglomeration (Plant ID used in Fig. 2.1 to 2.4)	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
		From 2,000 to 10,000 PE										
Ballymahon (269)	2,125	Ballymahon	2,125	Secondary with NR	Freshwater(R)	No	12	0	0	0	12	0
Edgeworthstown (271)	2,750	Edgeworthstown	2,750	Secondary with NR	Freshwater(R)	Yes	12	0	0	0	12	0
Granard (270)	3,200	Granard	3,200	Secondary with NR	Freshwater(L)	Yes	12	0	0	0	12	0
		From 15,001 to 50,000 PE										
Longford (277)	20,000	Longford	20,000	Secondary with NR	Freshwater(R)	Yes	12	0	0	0	12	0

List of Agglomerations Without Secondary Treatment in 2007

Agglomeration (Plant ID used in Fig. 2.1 to 2.4)	Agglomeration PE	Discharge To	Sensitive	Present Treatment
Drumlish	500	Freshwater(River)	Yes	Primary treatment only
Newtownforbes	500	Freshwater(River)	Yes	Primary treatment only

LOUTH COUNTY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2007

Agglomeration (ID. used in Fig. 2.1 to 2.4)	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
Louth Village (285)	700	From 500 to 999 PE Louth Village	500	Secondary	Freshwater(R)	No	7	1	0	7	0	0	6	3	0
		From 1,000 to 1,999 PE													
Carlingford (284)	1,400	Carlingford	1,400	Secondary	Coastal Water	No	6	0	0	6	0	0	6	0	0
Castlebellingham (282)	1,500	Castlebellingham	1,700	Secondary	Freshwater(R)	No	7	2	0	7	4	0	6	4	0
Dromiskin (278)	1,300	Dromiskin	1,000	Secondary	Freshwater(R)	No	7	6	4	8	6	2	6	5	2
Tullyallen (279)	1,300	Tullyallen	1,800	Secondary	Freshwater(R)	No	7	0	0	6	0	0	6	0	0
		From 2,000 to 10,000 PE													
Ardee (280)	6,000	Ardee	8,266	Secondary	Freshwater(R)	No	12	1	0	9	0	0	12	0	0
Blackrock (287)	5,800	Blackrock	6,000	Secondary	Estuarine	No	12	1	0	11	0	0	11	0	0
Clogherhead (286)	1,700	Clogherhead	2,000	Secondary	Coastal Water	No	7	2	1	7	1	1	6	1	1
Dunleer (283)	2,000	Dunleer	4,300	Secondary	Freshwater(R)	No	7	0	0	7	0	0	6	0	0
		From 50,001 to 150,000 PE													
Drogheda (288)	90,000	Drogheda	101,000	Secondary	Estuarine	No	127	0	0	373	6	0	118	6	0
		> 150,001 PE													
Dundalk (281)	90,000	Dundalk	179,535	Secondary	Estuarine	Yes	124	13	4	368	30	5	122	25	8

List of Agglomerations Without Secondary Treatment in 2007

Agglomeration (Plant ID used in Fig. 2.1 to 2.4)		Agglomeration PE	Discharge To	Sensitive	Present Treatment
Collon		700		No	No treatment
Knockbridge		500		No	No treatment

MAYO COUNTY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2007

Agglomeration (ID. used in Fig. 2.1 to 2.4)	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD		COD		TSS		TSS	
							No. of Samples	No. of samples >25mg/l	No. of samples >125mg/l	No. of samples >250mg/l	No. of Samples	No. of samples >35mg/l	No. of samples >87.5mg/l	
		From 500 to 999 PE												
Ballindine (310)	716	Ballindine	750	Secondary with NR	Freshwater(R)	No	2	1	0	0	2	0	0	0
Ballycastle (314)	600	Ballycastle	600	Secondary	Freshwater(R)	No	0		0	0	2	0	0	0
Belcarra (298)	196	Belcarra	500	Secondary	Freshwater(R)	No	0		0	0	2	1	0	0
Shrule (313)	399	Shrule	600	Secondary	Freshwater(R)	No	1	0	0	0	2	0	0	0
		From 1,000 to 1,999 PE												
Balla (612)	667	Balla	1,200	Secondary	Freshwater(R)	No	2	0	0	0	2	0	0	0
Bangor Erris (292)	346	Bangor Erris	1,100	Secondary	Freshwater(R)	No	0		0	0	1	0	0	0
Charlestown (294)	1,917	Charlestown	1,200	Secondary	Freshwater(R)	No	0		0	0	2	0	0	0
Foxford (301)	1,500	Foxford	1,500	Secondary	Freshwater(R)	No	0		1	0	2	1	0	0
Louisburgh (306)	1,000	Louisburgh	1,000	Secondary	Freshwater(R)	No	0		0	0	2	0	0	0
Mallaranny (305)	1,017	Mallaranny	1,017	Secondary	Coastal Water	No	0		0	0	2	0	0	0
		From 2,000 to 10,000 PE												
Achill Island Central (299)	910	Achill Island Central	4,000	Secondary	Coastal Water	No	2	0	0	0	11	0	0	0
Ballinrobe (295)	10,191	Ballinrobe	8,000	Secondary with NR	Freshwater(R)	No	7	1	2	0	12	4	1	1
Ballyhaunis (291)	3,637	Ballyhaunis	4,000	Secondary with NR	Freshwater(R)	No	12	0	0	0	12	0	0	0
Claremorris (296)	6,753	Claremorris	5,333	Secondary with NR	Freshwater(R)	No	12	0	0	0	12	0	0	0
Cong (290)	491	Cong	2,200	Secondary with NR	Freshwater(L)	No	8	0	0	0	12	1	0	0
Crossmolina (300)	1,747	Crossmolina	3,300	Secondary with NR	Freshwater(R)	No	12	0	0	0	12	0	0	0
Knock (303)	3,401	Knock	6,200	Secondary with NR	Freshwater(R)	No	11	0	0	0	12	0	0	0
Swinford (311)	1,383	Swinford	6,500	Secondary with NR	Freshwater(R)	No	3	0	1	0	12	0	0	0
		From 10,001 to 15,000 PE												
Westport (308)	10,381	Westport	15,000	Secondary with NR	Coastal Water	No	8	0	0	0	12	0	0	0
		From 15,001 to 50,000 PE												
Ballina (289)	6,538	Ballina	20,000	Secondary	Estuarine	No	11	1	1	1	13	3	1	1
Castlebar (293)	17,828	Castlebar	20,000	Secondary with NR	Freshwater(R)	Yes	2	0	0	0	12	2	1	1

MAYO COUNTY COUNCIL (continued)

List of Agglomerations Without Secondary Treatment in 2007

Agglomeration (Plant ID used in Fig. 2.1 to 2.4)	Agglomeration PE	Discharge To	Sensitive	Present Treatment
Belmullet	2,250	Coastal Water	No	No treatment
Killala	1,500	Coastal Water	No	No treatment
Kiltimagh	1,000	Freshwater(River)	No	Primary treatment only
Newport	800	Estuarine	No	Primary treatment only

MEATH COUNTY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2007

Agglomeration (ID. used in Fig. 2.1 to 2.4)	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
		From 500 to 999 PE													
Carlanstown (332)	600	Carlanstown	600	Secondary with NR	Freshwater(R)	No	6	0	0	6	0	0	6	1	0
Drumconrath (317)	600	Drumconrath	600	Secondary	Freshwater(R)	No	6	0	0	6	0	0	6	0	0
Kentstown (633)	600	Kentstown	600	Secondary with NR	Freshwater(R)	No	8	1	1	8	1	1	8	1	1
Kilmainhamwood (631)	500	Kilmainhamwood	500	Secondary	Freshwater(R)	No	6	0	0	6	0	0	6	1	0
Kilmessan (329)	500	Kilmessan	600	Secondary	Freshwater(R)	Yes	0			0			0		
Nobber (632)	600	Nobber	600	Secondary	Freshwater(R)	No	8	0	0	8	0	0	8	0	0
Summerhill (319)	700	Summerhill	700	Secondary	Freshwater(R)	Yes	6	0	0	6	0	0	6	0	0
		From 1,000 to 1,999 PE													
Kildalkey (666)	1,500	Kildalkey	1,500	Secondary	Freshwater(R)	No	4	0	0	4	0	0	4	0	0
Longwood (330)	700	Longwood	1,500	Secondary with NR	Freshwater(R)	Yes	11	2	0	11	1	1	11	2	1
Oldcastle (326)	1,400	Oldcastle	1,500	Secondary	Freshwater(R)	No	16	0	0	16	0	0	16	2	0
Slane (327)	1,500	Slane	1,500	Secondary	Freshwater(R)	No	7	2	0	7	1	0	7	3	1
		From 2,000 to 10,000 PE													
Athboy (334)	2,500	Athboy	2,500	Secondary	Freshwater(R)	Yes	12	2	0	12	0	0	12	0	0
Ballivor (323)	500	Ballivor	2,000	Secondary with NR	Freshwater(R)	Yes	12	0	0	12	0	0	12	0	0
Duleek (320)	2,500	Duleek	2,500	Secondary with NR	Freshwater(R)	No	12	0	0	12	0	0	12	0	0
Enfield (316)	1,800	Johnstown Bridge	3,500	Secondary with NR	Freshwater(R)	Yes	12	0	0	12	0	0	12	0	0
Kells (333)	5,500	Kells	8,000	Secondary	Freshwater(R)	Yes	12	2	1	12	2	0	12	3	2
Stamullen (331)	1,800	Stamullen	2,500	Secondary with NR	Freshwater(R)	No	12	0	0	12	0	0	12	2	0
		From 10,001 to 15,000 PE													
Dunshaughlin (716)	4,000	Castletown/Tara	12,000	Secondary with NR	Freshwater(R)	No	12	0	0	12	0	0	12	1	0
Trim (315)	7,500	Trim	12,000	Secondary with NR	Freshwater(R)	Yes	12	0	0	12	0	0	12	0	0
		From 15,001 to 50,000 PE													
Navan (325)	25,000	Navan	40,000	Secondary with NR	Freshwater(R)	Yes	13	0	0	13	0	0	13	0	0

List of Agglomerations Without Secondary Treatment in 2007

Agglomeration (Plant ID used in Fig. 2.1 to 2.4)		Agglomeration PE	Discharge To	Sensitive	Present Treatment
Mornington		6,000	Coastal Water	No	Preliminary treatment only

MONAGHAN COUNTY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2007

Agglomeration (ID. used in Fig. 2.1 to 2.4)	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
		From 500 to 999 PE													
Knockattallon (753)	130	Knockattallon	750	Secondary	Freshwater(R)	No	4	0	0	4	0	0	4	1	0
Scotshouse (754)	200	Scotshouse	600	Secondary with NR	Freshwater(R)	No	1	0	0	1	0	0	1	0	0
Smithboro (336)	1,466	Smithboro	750	Secondary	Freshwater(R)	No	9	0	0	9	0	0	9	0	0
		From 1,000 to 1,999 PE													
Ballinode (704)	341	Ballinode	1,000	Secondary	Freshwater(R)	No	4	1	0	4	0	0	4	1	1
Glaslough (344)	966	Glaslough	1,750	Secondary with NR	Freshwater(R)	No	4	1	0	4	1	0	4	1	1
Inniskeen (337)	968	Inniskeen	1,750	Secondary	Freshwater(R)	No	11	1	0	11	0	0	11	1	0
Newbliss (340)	1,056	Newbliss	1,000	Secondary	Freshwater(R)	No	9	2	0	9	1	0	9	4	0
Rockorry (341)	916	Rockorry	1,000	Secondary with NR	Freshwater(R)	No	9	1	0	9	0	0	9	0	0
Scotstown (342)	528	Scotstown	1,000	Secondary	Freshwater(R)	No	4	0	0	4	0	0	4	1	1
		From 2,000 to 10,000 PE													
Ballybay (343)	7,283	Ballybay	7,283	Secondary	Freshwater(R)	No	9	0	0	9	0	0	9	0	0
Clones (338)	3,893	Clones	4,500	Secondary	Freshwater(R)	No	9	1	0	9	0	0	9	1	0
Emyvale (345)	764	Emyvale	2,000	Secondary	Freshwater(R)	No	5	1	0	5	1	0	5	2	0
Knockaconny (752)	200	Knockaconny	3,000	Secondary	Freshwater(R)	Yes	4	0	0	4	0	0	4	0	0
		From 10,001 to 15,000 PE													
Carrickmacross (346)	12,087	Carrickmacross	12,150	Secondary with NR	Freshwater(R)	Yes	11	0	0	11	0	0	11	0	0
Castleblayney (339)	12,920	Castleblayney	12,960	Secondary with NR	Freshwater(L)	Yes	12	0	0	12	0	0	12	1	1
		From 15,001 to 50,000 PE													
Monaghan (335)	30,497	Monaghan	43,833	Secondary with NR	Freshwater(R)	Yes	12	0	0	12	0	0	12	1	0

OFFALY COUNTY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2007

Agglomeration (ID. used in Fig. 2.1 to 2.4)	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
		From 500 to 999 PE													
Cloghan (359)	770	Cloghan	800	Secondary	Freshwater(R)	Yes	6	2	1	6	1	0	6	1	0
Daingean (370)	932	Daingean	800	Secondary	Freshwater(R)	No	8	3	0	8	0	0	8	2	1
Mucklagh (360)	750	Mucklagh	800	Secondary	Freshwater(R)	No	10	9	6	10	4	0	10	8	3
Shinrone (347)	800	Shinrone	500	Secondary	Freshwater(R)	No	6	3	2	6	1	0	6	2	1
		From 1,000 to 1,999 PE													
Rhode (374)	976	Rhode	1,000	Secondary with NR	Freshwater(R)	No	12	8	3	12	2	0	12	2	0
		From 2,000 to 10,000 PE													
Banagher (373)	2,000	Banagher	2,500	Secondary with NR	Freshwater(R)	Yes	12	1	0	12	0	0	12	0	0
Clara (358)	3,500	Clara	4,500	Secondary with NR	Freshwater(R)	Yes	20	1	0	20	0	0	20	0	0
Edenderry (367)	8,500	Edenderry	9,000	Secondary with NR	Freshwater(R)	Yes	64	1	0	66	0	0	64	0	0
Ferbane (357)	1,650	Ferbane	3,184	Secondary with NR	Freshwater(R)	Yes	13	1	0	13	0	0	13	1	0
Kilcormac (369)	1,480	Kilcormac	2,000	Secondary	Freshwater(R)	Yes	13	3	0	13	1	0	13	1	0
		From 10,001 to 15,000 PE													
Birr (356)	9,680	Birr	12,000	Secondary with NR	Freshwater(R)	Yes	12	2	2	12	2	1	12	2	2
		From 15,001 to 50,000 PE													
Tullamore (368)	23,000	Tullamore	16,000	Secondary with NR	Freshwater(R)	Yes	16	7	2	16	1	0	16	2	0

ROSCOMMON COUNTY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2007

Agglomeration (ID. used in Fig. 2.1 to 2.4)	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
		From 500 to 999 PE													
Ballinlough (381)	965	Ballinlough	800	Secondary with NR	Freshwater(R)	No	12	0	0	12	0	0	12	4	2
Elphin (377)	1,160	Elphin	800	Secondary	Freshwater(R)	No	12	0	0	12	0	0	12	1	0
Frenchpark (375)	705	Frenchpark	500	Secondary	Freshwater(R)	No	12	12	10	12	12	8	12	12	6
Tarmonbarry (646)	600	Tarmonbarry	600	Secondary	Freshwater(R)	No	6	5	3	6	4	1	6	5	1
		From 1,000 to 1,999 PE													
Ballyleague (645)	981	Ballyleague	1,500	Secondary	Freshwater(L)	Yes	12	0	0	12	1	0	12	0	0
Strokestown (382)	1,463	Strokestown	1,000	Secondary	Freshwater(R)	No	12	3	3	12	3	1	12	3	2
		From 2,000 to 10,000 PE													
Ballaghaderreen (379)	5,017	Ballaghaderreen	2,500	Secondary with NR	Freshwater(R)	No	12	0	0	12	0	0	12	0	0
Boyle (385)	3,883	Boyle	6,000	Secondary with NR	Freshwater(R)	No	12	0	0	12	1	0	12	0	0
Castlereagh (376)	2,383	Castlereagh	3,000	Secondary with NR	Freshwater(R)	No	12	0	0	12	1	0	12	1	0
Monksland (378)	10,733	Monksland	8,139	Secondary with NR	Freshwater(R)	No	12	0	0	12	0	0	12	0	0
Roscommon (384)	8,967	Roscommon	9,550	Secondary with NR	Freshwater(R)	Yes	12	0	0	12	1	0	12	0	0

SLIGO COUNTY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2007

Agglomeration (ID. used in Fig. 2.1 to 2.4)	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
		From 500 to 999 PE													
Ballisadare (386)	1,250	Ballisadare	575	Secondary	Estuarine	No	7	2	0	7	0	0	7	4	1
Gurteen (394)	438	Gurteen	600	Secondary	Freshwater(R)	No	8	4	2	8	3	1	8	4	2
Riverstown (396)	357	Riverstown	600	Secondary	Freshwater(R)	No	0			0			0		
		From 1,000 to 1,999 PE													
Collooney (397)	1,058	Collooney	1,400	Secondary	Freshwater(R)	No	6	0	0	6	0	0	6	0	0
Enniscrone (395)	2,447	Enniscrone	1,400	Secondary	Coastal Water	No	15	12	10	15	11	7	15	13	8
Strandhill (390)	1,728	Strandhill	1,500	Secondary	Coastal Water	No	6	4	3	6	4	3	6	4	3
Tubbercurry (392)	2,154	Tubbercurry	1,400	Secondary	Freshwater(R)	No	11	7	2	12	3	0	11	5	1
		From 2,000 to 10,000 PE													
Ballymote (387)	2,390	Ballymote	3,000	Secondary	Freshwater(R)	No	11	5	3	12	2	1	12	3	1

List of Agglomerations Without Secondary Treatment in 2007

Agglomeration (Plant ID used in Fig. 2.1 to 2.4)	Agglomeration PE	Discharge To	Sensitive	Present Treatment
Mullaghmore	1,182	Coastal Water	No	Primary treatment only
Rosses Point	1,409	Coastal Water	No	Primary treatment only
Sligo (685)	20,000	Coastal Water	No	New secondary treatment plant commissioned in 2009

TIPPERARY NORTH COUNTY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2007

Agglomeration (ID. used in Fig. 2.1 to 2.4)	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD		COD		TSS	
							No. of Samples	No. of samples >25mg/l	No. of samples >125mg/l	No. of samples >250mg/l	No. of samples >35mg/l	No. of samples >87.5mg/l
		From 500 to 999 PE										
Borrisokane (409)	1,033	Borrisokane	700	Secondary	Freshwater(R)	Yes	8	0	0	0	8	0
Holycross (404)	500	Holycross	500	Secondary	Freshwater(R)	Yes	7	0	2	0	7	2
Littleton (411)	700	Littleton	700	Secondary	Freshwater(R)	No	6	0	0	0	6	0
Twomile Borris (408)	600	Twomile Borris	600	Secondary	Freshwater(R)	No	6	0	0	0	6	0
		From 1,000 to 1,999 PE										
Borrisoleigh (399)	2,077	Borrisoleigh	1,000	Secondary	Freshwater(R)	Yes	12	11	10	5	12	10
Newport (406)	983	Newport	1,720	Secondary	Freshwater(R)	No	9	0	0	0	9	0
		From 2,000 to 10,000 PE										
Ballina (403)	3,431	Ballina	3,000	Secondary with NR	Freshwater(R)	Yes	12	0	0	0	12	1
Templemore (401)	3,500	Templemore	3,500	Secondary	Freshwater(R)	Yes	12	11	6	0	12	12
		From 10,001 to 15,000 PE										
Nenagh (407)	12,782	New Nenagh	12,000	Secondary with NR	Freshwater(R)	Yes	13	0	0	0	13	0
Thurles (402)	22,465	Thurles	12,900	Secondary	Freshwater(R)	Yes	12	1	0	0	12	3
		From 15,001 to 50,000 PE										
Roscrea (400)	9,137	Roscrea	26,000	Secondary with NR	Freshwater(R)	Yes	12	0	0	0	12	0

TIPPERARY SOUTH COUNTY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2007

Agglomeration (ID. used in Fig. 2.1 to 2.4)	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
		From 500 to 999 PE													
Ballyclerihan (661)	500	Ballyclerihan	500	Secondary with NR	Freshwater(R)	Yes	51	0	0	51	0	0	51	4	4
Killenaule (423)	864	Killenaule	864	Secondary with NR	Freshwater(R)	Yes	52	0	0	52	0	0	52	9	9
Limerick Junction (662)	600	Limerick Junction	500	Secondary	Freshwater(R)	No	2	0	0	2	0	0	2	0	0
		From 1,000 to 1,999 PE													
Ardfinnan (428)	572	Ardfinnan	1,000	Secondary with NR	Freshwater(R)	Yes	52	3	0	52	5	0	52	10	3
Fethard (432)	1,920	Fethard	1,920	Secondary with NR	Freshwater(R)	Yes	51	0	0	51	0	0	51	8	8
		From 2,000 to 10,000 PE													
Cahir (427)	3,000	Cahir	3,000	Secondary	Freshwater(R)	Yes	52	0	0	52	0	0	52	3	2
Carrick-on-Suir (439)	6,000	Carrick-on-Suir	6,000	Secondary with NR	Freshwater(R)	Yes	52	1	1	52	0	0	52	5	3
Cashel (440)	2,280	Cashel	2,280	Secondary	Freshwater(R)	Yes	52	0	0	52	0	0	52	7	7
Tipperary Town (425)	4,750	Tipperary	4,750	Secondary with NR	Freshwater(R)	Yes	52	3	2	52	3	1	52	7	6
		From 15,001 to 50,000 PE													
Clonmel (418)	40,000	Clonmel	40,000	Secondary with NR	Freshwater(R)	Yes	48	4	3	48	4	0	48	6	2

List of Agglomerations Without Secondary Treatment in 2007

Agglomeration (Plant ID used in Fig. 2.1 to 2.4)	Agglomeration PE	Discharge To	Sensitive	Present Treatment
Cappawhite	533	Freshwater(River)	Yes	Primary treatment only

WESTMEATH COUNTY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2007

Agglomeration (ID. used in Fig. 2.1 to 2.4)	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
		From 500 to 999 PE													
Ballynacarrigy (487)	400	Ballynacarrigy	600	Secondary with NR	Freshwater(R)	No	12	0	0	6	0	0	12	0	0
Clonmellon (486)	500	Clonmellon	500	Secondary	Freshwater(R)	No	0			0			0		
Multyfarnham (652)	300	Multyfarnham	700	Secondary	Freshwater(R)	No	12	0	0	1	0	0	12	0	0
		From 1,000 to 1,999 PE													
Delvin (484)	900	Delvin	1,250	Secondary	Freshwater(R)	No	11	1	0	7	0	0	11	0	0
Rochfortbridge (482)	1,700	Rochfortbridge	1,500	Secondary	Freshwater(R)	No	9	2	0	6	2	0	9	0	0
		From 2,000 to 10,000 PE													
Castlepollard (479)	2,000	Castlepollard	6,500	Secondary with NR	Freshwater(R)	No	12	0	0	5	0	0	12	0	0
Kilbeggan (483)	2,000	Kilbeggan	2,460	Secondary	Freshwater(R)	No	11	0	0	7	0	0	11	0	0
Killucan (488)	850	Killucan	2,500	Secondary with NR	Freshwater(R)	No	12	0	0	3	0	0	12	0	0
Kinnegad (480)	2,800	Kinnegad	4,800	Secondary with NR	Freshwater(R)	No	11	0	0	7	0	0	11	1	0
Moate (481)	3,000	Moate	5,000	Secondary with NR	Freshwater(R)	No	12	1	0	6	0	0	12	0	0
Tyrellspass (485)	800	Tyrellspass	2,000	Secondary with NR	Freshwater(R)	Yes	12	0	0	8	0	0	12	0	0
		From 15,001 to 50,000 PE													
Athlone (489)	22,200	Athlone	30,000	Secondary with NR	Freshwater(R)	Yes	17	0	0	17	0	0	17	0	0
Mullingar (478)	23,000	Mullingar	25,000	Secondary with NR	Freshwater(R)	Yes	12	0	0	12	0	0	12	0	0

WEXFORD COUNTY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2007

Agglomeration (ID. used in Fig. 2.1 to 2.4)	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples	BOD No. of samples >25mg/l	BOD No. of samples >50mg/l	COD No. of Samples	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of Samples	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
		From 500 to 999 PE													
Adamstown (499)	535	Adamstown	900	Secondary	Freshwater(R)	No	5	2	2	5	0	0	5	0	0
Ballymurn (659)	600	Ballymurn	600	Secondary with NR	Freshwater(R)	Yes	5	0	0	5	0	0	5	2	0
Bridgetown (496)	500	Bridgetown	500	Secondary	Freshwater(R)	Yes	7	4	4	7	2	1	7	5	4
Carrig-on-Bannow (660)	600	Carrig-on-Bannow	600	Secondary with NR	Estuarine	No	5	2	2	5	2	2	5	2	2
Clonroche (501)	1,000	Clonroche	650	Secondary	Freshwater(R)	No	4	0	0	4	0	0	4	1	0
Piercetown (494)	600	Piercetown	800	Secondary with NR	Freshwater(R)	No	4	0	0	4	0	0	4	1	0
Taghmon (497)	1,000	Taghmon	650	Secondary	Freshwater(R)	No	6	2	1	6	2	0	6	2	0
		From 1,000 to 1,999 PE													
Castlebridge (493)	1,000	Castlebridge	1,750	Secondary	Estuarine	Yes	12	0	0	12	0	0	12	2	0
Ferns (498)	1,200	Ferns	1,200	Secondary	Freshwater(R)	Yes	6	3	1	6	3	1	6	3	1
		From 2,000 to 10,000 PE													
Blackwater (490)	1,200	Blackwater	2,000	Secondary	Freshwater(R)	No	12	0	0	12	0	0	12	2	0
Gorey (503)	6,500	Gorey	6,500	Secondary	Freshwater(R)	No	11	0	0	11	0	0	11	2	1
Kilmuckridge (492)	1,000	Kilmuckridge	2,000	Secondary	Freshwater(R)	No	11	2	2	11	3	2	11	5	1
Rosslare Strand (505)	4,000	Rosslare Strand	7,000	Secondary	Coastal Water	No	12	3	1	12	0	0	12	6	4
		From 10,001 to 15,000 PE													
Courtown/Riverchapel (504)	10,000	Courtown/Riverchapel	12,000	Secondary	Coastal Water	No	19	0	0	19	0	0	19	1	1
		From 15,001 to 50,000 PE													
Enniscorthy (502)	8,500	Enniscorthy	16,500	Secondary	Estuarine	Yes	12	1	0	12	0	0	11	2	0
Wexford town (506)	17,000	Wexford town	45,000	Secondary with NR	Estuarine	Yes	22	1	0	22	0	0	22	0	0

List of Agglomerations Without Secondary Treatment in 2007

Agglomeration (Plant ID used in Fig. 2.1 to 2.4)	Agglomeration PE	Discharge To	Sensitive	Present Treatment
Buncloody (495)	2,555	Freshwater(River)	Yes	Primary treatment only, secondary treatment plant under construction
Campile	500	Estuarine	No	Primary treatment only
Duncannon	600	Coastal Water	No	No treatment
Fethard-on-Sea	1,000	Estuarine	No	Primary treatment only
Kilmore Quay	2,000	Coastal Water	No	No treatment
New Ross (680)	10,000	Estuarine	Yes	No treatment, secondary treatment plant under construction
Rosslare Harbour	3,000	Coastal Water	No	No treatment (2 ^o treatment plant commissioned in 2008)

WICKLOW COUNTY COUNCIL

Effluent Quality from Secondary Waste Water Treatment Plants in 2007

Agglomeration (ID. used in Fig. 2.1 to 2.4)	Agglom. PE	Plant Name	Plant PE	Present Treatment	Discharge To	Sensitive Yes/No	BOD No. of Samples >25mg/l	BOD No. of samples >50mg/l	COD No. of samples >125mg/l	COD No. of samples >250mg/l	TSS No. of samples >35mg/l	TSS No. of samples >87.5mg/l
		From 500 to 999 PE										
Ballinacdash (530)	300	Ballinacdash	900	Secondary with NR	Freshwater(R)	No	0		0		0	
Dunlavin Milltown (525)	700	Dunlavin Milltown	600	Secondary	Freshwater(R)	No	3	2	3	0	3	2
Kilpedder (521)	600	Kilpedder	600	Secondary	Freshwater(R)	No	4	2	2	0	4	0
Rathnew (510)	1,530	Rathnew	600	Secondary	Freshwater(R)	No	12	8	8	7	12	5
Redcross (630)	1,040	Redcross	800	Secondary	Freshwater(R)	No	6	2	6	1	6	0
Shillelagh (637)	550	Shillelagh	800	Secondary	Freshwater(R)	No	4	3	3	1	4	0
		From 1,000 to 1,999 PE										
Ashford (515)	1,090	Ashford	1,090	Secondary	Freshwater(R)	No	6	0	4	0	6	0
Aughrim (518)	1,112	Aughrim	1,200	Secondary	Freshwater(R)	No	6	0	4	0	6	0
Laragh (634)	500	Laragh	1,000	Secondary	Freshwater(R)	No	0		0		0	
Newcastle (511)	1,000	Newcastle	1,000	Secondary	Freshwater(R)	No	6	1	4	1	6	1
Tinahealy (514)	1,000	Tinahealy	1,200	Secondary	Freshwater(R)	No	6	3	6	0	6	0
Roundwood (636)	1,322	Roundwood	1,600	Secondary	Freshwater(R)	No	0		0		0	
		From 2,000 to 10,000 PE										
Baitinglass (512)	3,391	Baitinglass	3,000	Secondary	Freshwater(R)	No	12	2	6	1	12	1
Blessington (528)	4,500	Blessington	6,000	Secondary with NR	Freshwater(L)	No	24	1	23	0	24	0
Carnew (513)	1,800	Carnew	2,400	Secondary	Freshwater(R)	No	6	1	5	0	6	0
Enniskerry (517)	3,000	Enniskerry	6,000	Secondary with NR	Freshwater(R)	No	12	1	8	1	12	1
Kilcoole (522)	1,529	Kilcoole	2,400	Secondary	Freshwater(R)	No	14	2	12	1	14	1
		From 15,001 to 50,000 PE										
Greystones (523)	28,000	Greystones	30,000	Secondary	Coastal Water	No	13	1	13	0	13	0

List of Agglomerations Without Secondary Treatment in 2007

Agglomeration (Plant ID used in Fig. 2.1 to 2.4)	Agglomeration PE	Discharge To	Sensitive	Present Treatment
Arklow (681)	16,997	Coastal Water	No	No treatment
Avoca	500	Freshwater(River)	No	Primary treatment only
Bray (519)	35,000	Coastal Water	No	Preliminary treatment only, secondary treatment plant under construction
Rathdrum	1,500	Freshwater(River)	No	Primary treatment only
Wicklow (508)	10,000	Coastal Water	No	Preliminary treatment only, secondary treatment plant under construction

Appendix B: Sewage Sludge Produced (by each county)

Local Authority	2006 (tds/year)	2007 (tds/year)
Carlow County Council	580	788
Cavan County Council	1,206	913
Clare County Council	752	2,500
Cork City	3,012	2,857
Cork County Council	1,962	1,198
Donegal County Council	763	627
Dublin City Council	17,919	20,646
Fingal County Council	2,500	1,175
Galway County Council	1,485	2,232
Galway City Council	6,848	8,057
Kerry County Council	983	1,050
Kildare County Council	3,209	6,741
Kilkenny County Council	1,299	1,096
Laois County Council	1,388	1,254
Leitrim County Council	254	254
Limerick City & Limerick County Council	1,700	2,560
Longford County Council	1,077	1,088
Louth County Council	1,674	1,515
Mayo County Council	7,589	7,602
Meath County Council	6,225	7,228
Monaghan County Council	791	995
Offaly County Council	5,490	8,110
Roscommon County Council	553	401
Sligo County Council	15	8
Tipperary N.R.	1,782	1,271
Tipperary S.R. Co. Co.	3,274	988 ¹
Waterford County Council	85	170
Westmeath County Council	1,460	1,102
Wexford County Council	978	1,155
Wicklow County Council	795	830
Total	77,648	86,411

¹ The discrepancy between 2006 and 2007 sewage sludge figures is due to the fact that sludge was being stockpiled due to outlet difficulties before 2006 and was not being moved on. The situation was resolved in early 2006 and the backlog was cleared, hence the smaller figure in 2007.

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An Ghníomhaireacht um Chaomhnú Comhshaoil

Is í an Ghníomhaireacht um Chaomhnú Comhshaoil (EPA) comhlachta reachtúil a chosnaíonn an comhshaol do mhuintir na tíre go léir. Rialaímid agus déanaimid maoirsiú ar ghníomhaíochtaí a d'fhéadfadh truailliú a chruthú murach sin. Cinntímid go bhfuil eolas cruinn ann ar threochtaí comhshaoil ionas go nglactar aon chéim is gá. Is iad na príomh-nithe a bhfuilimid gníomhach leo ná comhshaol na hÉireann a chosaint agus cinntiú go bhfuil forbairt inbhuanaithe.

Is comhlacht poiblí neamhspleách í an Ghníomhaireacht um Chaomhnú Comhshaoil (EPA) a bunaíodh i mí Iúil 1993 faoin Acht fán nGníomhaireacht um Chaomhnú Comhshaoil 1992. Ó thaobh an Rialtais, is í an Roinn Comhshaoil agus Rialtais Áitiúil a dhéanann urraíocht uirthi.

ÁR bhFREAGRACHTAÍ

CEADÚNÚ

Bíonn ceadúnais á n-eisiúint againn i gcomhair na nithe seo a leanas chun a chinntiú nach mbíonn astuithe uathu ag cur sláinte an phobail ná an comhshaol i mbaol:

- áiseanna dramhaíola (m.sh., líonadh talún, loisceoirí, stáisiúin aistrithe dramhaíola);
- gníomhaíochtaí tionsclaíocha ar scála mór (m.sh., déantúsaíocht cógaisíochta, déantúsaíocht stroighne, stáisiúin chumhachta);
- diantalmhaíocht;
- úsáid faoi shrian agus scaoileadh smachtaithe Orgánach Géinathraithe (GMO);
- mór-áiseanna stórais peitreal.
- Scardadh dramhuisce

FEIDHMIÚ COMHSHAOIL NÁISIÚNTA

- Stiúradh os cionn 2,000 iniúchadh agus cigireacht de áiseanna a fuair ceadúnas ón nGníomhaireacht gach bliain.
- Maoirsiú freagrachtaí cosanta comhshaoil údarás áitiúla thar sé earnáil - aer, fuaim, dramhaíl, dramhuisce agus caighdeán uisce.
- Obair le húdaráis áitiúla agus leis na Gardaí chun stop a chur le gníomhaíocht mhídhleathach dramhaíola trí chomhordú a dhéanamh ar líonra forfheidhmithe náisiúnta, díriú isteach ar chiontóirí, stiúradh fiosrúcháin agus maoirsiú leigheas na bhfadhbanna.
- An dlí a chur orthu siúd a bhriseann dlí comhshaoil agus a dhéanann dochar don chomhshaol mar thoradh ar a ngníomhaíochtaí.

MONATÓIREACHT, ANAILÍS AGUS TUAIRISCIÚ AR AN GCOMHSHAOIL

- Monatóireacht ar chaighdeán aer agus caighdeáin aibhneacha, locha, uiscí taoide agus uiscí talaimh; leibhéil agus sruth aibhneacha a thomhas.
- Tuairisciú neamhspleách chun cabhrú le rialtais náisiúnta agus áitiúla cinntiú a dhéanamh.

RIALÚ ASTUITHE GÁIS CEAPTHA TEASA NA hÉIREANN

- Cainníochtú astuithe gáis ceaptha teasa na hÉireann i gcomhthéacs ár dtiomantas Kyoto.
- Cur i bhfeidhm na Treorach um Thrádáil Astuithe, a bhfuil baint aige le hos cionn 100 cuideachta atá ina mór-ghineadóirí dé-ocsaíd charbóin in Éirinn.

TAIGHDE AGUS FORBAIRT COMHSHAOIL

- Taighde ar shaincheisteanna comhshaoil a chomhordú (cosúil le caighdeán aer agus uisce, athrú aeráide, bithéagsúlacht, teicneolaíochtaí comhshaoil).

MEASÚNÚ STRAITÉISEACH COMHSHAOIL

- Ag déanamh measúnú ar thionchar phleananna agus chláracha ar chomhshaol na hÉireann (cosúil le pleananna bainistíochta dramhaíola agus forbartha).

PLEANÁIL, OIDEACHAS AGUS TREOIR CHOMHSHAOIL

- Treoir a thabhairt don phobal agus do thionscal ar cheisteanna comhshaoil éagsúla (m.sh., iarratais ar cheadúnais, seachaint dramhaíola agus rialacháin chomhshaoil).
- Eolas níos fearr ar an gcomhshaol a scaipeadh (trí cláracha teilifíse comhshaoil agus pacáistí acmhainne do bhunscoileanna agus do mheánscoileanna).

BAINISTÍOCHT DRAMHAÍOLA FHORGHNÍOMHACH

- Cur chun cinn seachaint agus laghdú dramhaíola trí chomhordú An Chláir Náisiúnta um Chosc Dramhaíola, lena n-áirítear cur i bhfeidhm na dTionscnamh Freagrachta Táirgeoirí.
- Cur i bhfeidhm Rialachán ar nós na treoracha maidir le Trealamh Leictreach agus Leictreonach Caite agus le Srianadh Substaintí Guaiseacha agus substaintí a dhéanann ídiú ar an gcrios ózóin.
- Plean Náisiúnta Bainistíochta um Dramhaíl Ghuaiseach a fhorbairt chun dramhaíl ghuaiseach a sheachaint agus a bhainistiú.

STRUCHTÚR NA GNÍOMHAIREACHTA

Bunaíodh an Ghníomhaireacht i 1993 chun comhshaol na hÉireann a chosaint. Tá an eagraíocht á bhainistiú ag Bord lánaimseartha, ar a bhfuil Príomhstíúrthóir agus ceithre Stíúrthóir.

Tá obair na Ghníomhaireachta ar siúl trí ceithre Oifig:

- An Oifig Aeráide, Ceadúnaithe agus Úsáide Acmhainní
- An Oifig um Fhorfheidhmiúchán Comhshaoil
- An Oifig um Measúnacht Comhshaoil
- An Oifig Cumarsáide agus Seirbhísí Corparáide

Tá Coiste Comhairleach ag an nGníomhaireacht le cabhrú léi. Tá dáréag ball air agus tagann si ad le chéile cúpla uair in aghaidh na bliana le plé a dhéanamh ar cheisteanna ar ábhar imní iad agus le comhairle a thabhairt don Bhord.



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