



Eastern River Basin District

Programmes of Measures

2009 – 2015



eastern
river basin district

**Foreword by Cllr. J. J. Power
Chairman of the Eastern River Basin
District Advisory Council**

As Chairman of the Advisory Council I am particularly encouraged by the progress that has been made in implementing the Water Framework Directive in the Eastern River Basin District. The Directive has far reaching environmental benefits for the future of the quality of the environment in our rivers, lakes estuaries, groundwaters and coastal waters. It is important to recognise the contribution made by the Local Authorities within the District, who acting jointly are the competent authority for making the River Basin Management Plan. I also wish to thank all the members of the Advisory and Technical Councils. Previously we have collated information on all of our waters in a way which has never been attempted before and gained a detailed understanding of the pressures currently facing them. In this document we set out our strategy and plan of actions to achieve Good Status for all our waters.

**Introduction by the Chairman of the
Technical Council**

I would like to thank all of the Agencies and members of both the Technical Council and the Advisory Council for their continued participation and wholehearted support of this process, since the councils were formed in 2005.

Public involvement in the Eastern River Basin District began in 2003. Publication of the "Water Matters" report for each of the eight river basin districts provided all interested parties with an overview of the water management issues affecting each District in Ireland. Comments were invited from all interested parties and the submissions received assisted greatly in the development of this River Basin Management Plan.

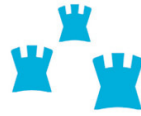
Water is a very precious resource and we must do everything in our power to protect and conserve it. A significant technical effort has gone into preparing this Plan, which highlights the threats to our water quality and quantity and the actions that may need to be taken to provide better protection and enhancement for waters and aquatic ecosystems. It is important that the problems are addressed and that interested parties have a say in what needs to be done.

Water quality is a matter of concern to a very wide range of people and working together we can realise the ambitious aims of the Water Framework Directive to restore all our waters to Good Status.

*Tom Leahy, Dublin City, Executive Manager
(Engineering)*



Comhshaoil, Oidhreacht agus Rialtas Áitiúil
Environment, Heritage and Local Government



Dublin City Council

Comhairle Cathrach Bhaile Átha Cliath



comhairle chontae na mí
meath county council



Fingal County Council

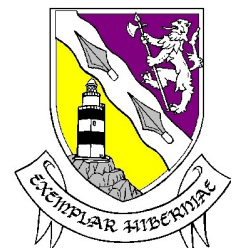
Comhairle Contae Fhine Gall



Comhairle Contae County Council



Comhairle Contae
Átha Cliath Theas
South Dublin County Council



Consultants to the
Eastern River Basin District

1 Introduction

The document presents the Programme of Measures for each water body in the Eastern River Basin District as required by the Water Framework Directive (WFD). It accompanies the River Basin Management Plan (the Plan) published in August 2009.

The WFD requires that a programme of measures is developed for each of the 488 water bodies in the Eastern River Basin District and that waters are managed on a catchment basis to protect and improve their ecological, chemical and quantitative status. To accommodate these two key requirements, the rivers in the four hydrometric units of the Eastern River Basin District have been sub divided into water management units (or sub catchments) which have broadly similar characteristics and problems. The intent in this first cycle of the WFD (to 2015) is to manage the waters on a water management unit basis. In later cycles it is anticipated that more focus will be on the individual water bodies where problems remain.

This document provides:

Section 2

- an overview of the various types of measures that are available to address the problems presently impacting on the waters (taken from Section 7 of the Plan).

Section 3

- an overview matrix of the measures and relative costs for each water management unit and water body; and
- maps of the water body locations.

Section 4

The bulk of this report is a tabular presentation of each water management unit and water body providing:

- present status of the water body(s);
- programmes of priority actions (measures);
- agencies responsible for the measures;
- wastewater treatment works in the catchment area;
- critical factors in achieving implementation;
- target date to achieve good status; and
- pressure details.

Section 5

The costs of the programmes of measures are presented for each water management unit or water body within each Local Authority area.

2 Types of Measures

The improvements to our waters required by the Directive will require specific actions (or measures). Measures are our response to restore waters where there are existing problems and to protect healthy waters from threat. The collection of necessary actions required for each water body is termed the Programme of Measures and these are to be implemented in a coordinated way in each catchment to provide comprehensive protection.

There are two types of measures specified in the Directive, basic and supplementary. However, in the ERBD we have also identified potential new legislation and various types of guidance and guidelines. The following groups of measures are described in the following sections:

- Basic measures;
- Measures for high status waters and protected areas;
- Measures for heavily modified and artificial water bodies;
- Supplementary measures; and
- Planned and potential measures.

2.1 Basic Measures

Basic measures are those required by various pieces of existing legislation, i.e. required by law and are not optional in any water body. These are defined in the Directive. There are eleven key European Directives which must be implemented by all Member States and 11 other basic measures to be addressed. We have also identified nine other relevant European Directives. The European Directives with their equivalent Irish legislation are listed in the Tables 2.1, 2.2, 2.3 and 2.4.

Table 2.1: Water Framework Directive

EU Directive	Irish Legislation	Purpose	Responsible Organisations
Water Framework Directive (2000/60/EC)	S.I. 722 European Communities (Water Policy) Regulations 2003	Water resource management	DEHLG, Local Authorities, Other Public Bodies

Table 2: 11 Key Basic Directives

EU Directive	Irish Legislation	Purpose	Responsible Organisations
The Bathing Water Directive (2006/7/EC) (76/160/EEC repealed)	S.I. 79 of 2008 Bathing Water Quality Regulations, 2008	Bathing waters for human health	Local Authorities, EPA, DEHLG
The Birds Directive (79/409/EEC)	S.I. 291 of 1985 EC (Conservation of Wild Birds) and amendments	Bird and habitat conservation	DEHLG, NPWS, Local Authorities, An Bord Pleanála, All Public Authorities
The Drinking Water Directive (98/83/EC) (80/778/EEC repealed 25/12/2003)	S.I. 278 of 2007 EC (Drinking Water Regulations) (No 2)	Quality of drinking water for human health	EPA, HSE, Local Authorities, DEHLG
The Major Accidents (Seveso) Directive (96/82/EC) extended by Directive 2003/105/EC	S.I. 74 of 2006 EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations, 2006	Major hazards and risks	Manufacturers, Local Authorities, DETE
The Environmental Impact Assessment Directive (85/337/EEC) as amended by Directive 97/11/EC	S.I. 349 of 1989 EC (Environmental Impact Assessment Regulations) 1989 and amendments	Environmental consequences of individual projects	EPA, Local Authorities
The Sewage Sludge Directive (86/278/EEC)	S.I. 148 of 1998 Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 – 2001	Human, animal, soil and vegetation protection	Local Authorities, DEHLG
The Urban Wastewater Treatment Directive (91/271/EEC)	S.I. 254 of 2001 Urban Waste Water Treatment Regulations, 2001 and 2004	Collection, treatment and discharge of domestic and certain industrial waste waters	Local Authorities

EU Directive	Irish Legislation	Purpose	Responsible Organisations
The Plant Protection Products Directive (91/414/EEC)	S.I. 83 of 2003 EC (Authorisation, Placing on the market, use and control of Plant Protection Products) Regulations, 2003 and amendments S.I. 224 of 2005 and S.I. 381 of 2006. S.I. 624 of 2001 EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001. S.I. 320 of 1981 EC (Prohibition of certain active substances in plant protection products). S.I. 565 of 2008 EC (Pesticides Residues) Regulations 2008	Protection of human and animal health	Pesticide Control Service, DEHLG, Relevant persons
The Nitrates Directive (91/676/EEC)	S.I. 378 of 2006 EC Good Agricultural Practice for Protection of Waters Regulations, 2009	Protect surface and groundwater from agricultural pollution	DEHLG, DAFF, EPA, Local Authorities
The Habitats Directive (92/43/EEC)	S.I. 94 of 1997 EC (Natural Habitats) Regulations, 1997 – 2005	Habitat conservation and species protection	DEHLG, NPWS, Local Authorities, An Bord Pleanála, All public authorities
The Integrated Pollution Prevention Control Directive (96/61/EC)	S.I. 85 of 1994 EPA (Licensing) Regulations, 1994 & 2004	Minimise pollution from industrial sources	EPA, DEHLG, Local Authorities

The 11 Basic Directives have a direct impact on water protection; the areas in which they contribute to addressing our water issues is shown in Table 2.3.

Table 2.3: Roles of the 11 Basic Directives

Basic Measure	Wastewater, Industrial & Other Point Sources	Agriculture	Unsewered Properties	Forestry	Physical Modifications	Dangerous Substances	Abstractions	Landfills, Quarries & Mines
Bathing Waters	✓	✓	✓	✓				✓
Birds	✓	✓	✓	✓	✓		✓	
Habitats	✓	✓	✓	✓	✓		✓	
Drinking Waters	✓						✓	✓
Major Accidents	✓					✓		
Environmental Impact Assessment	✓	✓	✓	✓	✓		✓	✓
Sewage Sludge		✓						
Urban Wastewater Treatment	✓							
Plant Protection Products		✓		✓		✓		
Nitrates		✓						
Integrated Pollution Prevention Control	✓	✓				✓		✓

The Directive lists eleven other relevant Directives which also benefit the water environment or its users; these are shown in Table 2.4.

Table 2.4: Other Relevant Directives

EU Directive	Irish Legislation	Purpose	Responsible Organisations
The Groundwater Directive (80/68/EEC) (To be revoked 22/12/2013)	S.I. 684 of 2007 Waste Water Discharge (Authorisation) Regulations, 2007. S.I. 41 of 1999 Protection of Groundwater Regulations, 1999 (to be revoked 22/12/2013)	Protecting groundwater from discharges and unsuitable artificial recharge	DEHLG, EPA, Local Authorities
The Dangerous Substances Directive (2006/11/EC) (76/464/EEC Repealed) and Daughter Directives	S.I. 684 of 2007 Waste Water Discharge (Authorisation) Regulations, 2007. Water Services Act 2007. S.I. 12 of 2001 Water Quality Dangerous Substances Regulations, 2001. Local Government (Water Pollution) Act, 1977 and amendments (Section 4 and 16).	Human and ecological health	Health & Safety Authority, Operators, EPA, DEHLG, Local Authorities

EU Directive	Irish Legislation	Purpose	Responsible Organisations
Surface Water Abstraction Directive (75/440/EEC)	S.I. 294 of 1989 Quality of Surface Water intended for the Abstraction of Drinking Water	Human health	DEHLG, Local Authorities
The Shellfish Water Directive (79/923/EEC)	S.I. 268 of 2006 The Quality of Shellfish Waters Regulation Regulations, 1998	Human health	NPWS, DEHLG, Local Authorities
Strategic Environmental Assessment Directive (2001/42/EC)	Planning and Development Regulations 2001 - 2007 (S.I. 436 of 2004)	Environmental consequences of plans and programmes	EPA, Local Authorities
EU Directive on port reception facilities for ship-generated waste and cargo residues (2000/59/EC)	S.I. 117 of 2003 EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations, 2003	Environmental protection	Port Authorities, DETE
Dangerous Substances	EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC)	Human and ecological health	Health & Safety Authority, Operators, EPA, DEHLG, Local Authorities
The Floods (Directive 2007/60/EC)	Required to be transposed into Irish law before 26 November 2009	Assessment and Management of Flood Risks	OPW
Directive on the Protection of groundwater against pollution 2006/118/EC	Required to be transposed into Irish Law in 2009	Protection of Groundwater	EPA, DEHLG

Other Basic Measures

Whilst the European Directives listed above can be quite prescriptive in how they must be implemented, the 11 Other Basic Measures listed in the WFD and presented below can be implemented by the Member States individually. In Ireland several of these measures are already addressed through existing legislation. Some of the existing legislation may require amendment to incorporate the measures below or in some cases new legislation must be implemented.

- Cost Recovery for water use (DEHLG, Local Authorities);
- Measures to promote efficient and sustainable water use (DEHLG, Local Authorities, owners/occupiers);
- Protection of drinking water sources (DEHLG, EPA);
- Control of abstraction and impoundment (DEHLG, Local Authorities, ESB, relevant persons);
- Authorisation of discharges to groundwater (DEHLG, EPA);
- Control of point source discharges (Local Authorities, EPA, DETE, DCENR, Fisheries Board, NPWS, relevant persons);
- Control of diffuse point discharges (Local Authorities, EPA, DETE, DCENR, Fisheries Board, NPWS, relevant persons);
- Control of priority substances (Health & Safety Authority, Operators, EPA, DEHLG, Local Authorities);
- Controls on physical modifications of surface waters (DEHLG, Local Authorities, Port Authorities);
- Controls on other activities impacting on water status (relevant organisations and individuals); and
- Prevention or reduction of the impact of accidental pollution incidents (Local Authorities, An Garda Síochána, HSE, DEHLG, Department of Health and Children, Department of Justice, Equality and Law Reform).

In addition to the basic measures (existing legislation) listed above, the Irish government is scheduled to develop new legislation addressing several issues, including implementing some of the 11 Other Basic Measures. When this new legislation is enacted, it will be included in the actions proposed for the Eastern River Basin District.

The implementation of existing and new basic measures will have a major beneficial impact on waters in the Eastern River Basin District. All relevant EU Directives have been or are being transposed to Irish law in recent years and they are being progressively implemented.

2.2 Measures for High Status and Protected Areas

In addition to the basic measures, the Western River Basin District Project developed (on behalf of the EPA) measures specifically to protect high status and protected areas (Table 2.5). As with the basic measures, these will be mandatory for all such waters.

Table 2.5: National measures for high status waters and protected areas developed on behalf of the EPA (courtesy of the EPA/Western River Basin District Project)

Action	Objective of measure	Responsible Agency	Type
Continued monitoring and survey by NPWS to confirm conservation status.	Protect/Restore	NPWS	Monitoring
Clarification of location of the features at unfavourable conservation status.	Restore	NPWS	Monitoring
Implementation of land management measures within protected areas.	Restore	NPWS	Management
Notification of appropriate agencies if water status issues are found to arise.	Restore	NPWS	Management
Update National Abstractions Register.	Protect	Local Authorities	Data
Identify alternative solutions where existing abstractions are implicated in causing unfavourable conservation status.	Restore	Local Authorities/Private	Management
Use existing analyses of risks and pressures in relevant catchments to identify the suite of WFD Measures that will contribute to resolving unfavourable conservation status for individual SACs. Include examination of ortho-photography in the review. LA Biodiversity Officers should be involved. Consult with NPWS .	Restore	RBM Planners/Local Authorities/NPWS	Management
Consult with NPWS on identifying any additional risks and sensitivities, and any additional Measures relevant to individual sites/features at unfavourable conservation status, including investigative/operational monitoring needs.	Restore	RBM Planners/Local Authorities/NPWS	Management
Document plans specific to each SAC unfavourable conservation status issue, (with reference to Sections 4 and 5 of the guidance, submit to and implement in consultation with NPWS.	Restore	RBM Planners/Local Authorities/NPWS	Management
GIS mapping of the currently known extent of Freshwater Pearl Mussel populations onto the EPA river sections, including any distribution updates available from the rapid assessment survey during 2008, with annual updates in 2009 and 2010 with any additional distribution data.	Protect	NPWS	Data
Notification and distribution by NPWS of the FPM database to all relevant Local Authorities and other agencies including the EPA, Forest Service, Coillte, COFORD, Central Fisheries Board and Regional Fisheries Boards.	Protect	NPWS	Management
Notification by NPWS of all Freshwater Pearl Mussel monitoring transect locations to other monitoring agencies, to avoid any accidental damage by them.	Protect	NPWS	Management
Review water status, risks and pressures in catchments associated with Freshwater Pearl Mussel populations, in order to assist NPWS in identifying the more readily recoverable populations, and in identifying potential translocation rivers for <i>M. durrovensis</i> .	Protect/Restore	RBM Planners	Management
On-going identification by NPWS of Freshwater Pearl Mussel populations for which there is evidence that existing pressures are such that populations may be recoverable, with a view to applying appropriate conservation measures to them.	Protect/Restore	NPWS	Monitoring
Investigative monitoring of river water quality parameters in association with NPWS rapid assessment monitoring.	Protect/Restore	EPA/Local Authorities	Monitoring
Review controls on use and disposal of pesticides including sheep-dip.	Protect/Restore	DAFF	Management
Assessment of known populations of <i>Vertigo</i> species by NPWS is on-going; it is recommended that assessments are updated annually to 2010 to inform Programmes of Measures for these species.	Protect/Restore	NPWS	Monitoring
Locational data for <i>Vertigo</i> species in GIS should be made available by NPWS to the relevant implementing agencies.	Protect/Restore	NPWS	Data
Use guidance on Article 6 assessment for Plans and Projects (Section 6 of Guidance Document).	Protect	LA/Private	Management
Use sensitivities of water dependent habitats and species to water quality and hydrological pressures as set out in Sections 3 and 5 to guide decision making.	Protect	LA/Private	Management

Action	Objective of measure	Responsible Agency	Type
Consult with NPWS.	Protect	All	Management
Develop a Code of Good Practice for construction activity in and adjoining watercourses.	Protect	ERFB	Management
Update the Register of Protected Areas in respect of SACs designated under the Habitats Directive for Annex I listed water dependent habitats and Annex II species. (SAC Water Dependency database field WD H S).	Protect	EPA	Data
The SAC Water Dependency database must be included in the EPA ENVision Online Mapviewer WFD protected areas.	Protect	EPA	Data
NPWS to maintain and update the SAC Water Dependency database and notify updates annually.	Protect	NPWS	Data
Update Register of Protected Areas and EPA ENVision Online Mapviewer in respect of SPAs; additional sites have been designated since 2005.	Protect	EPA	Data
Clarify which SPAs are designated for water dependent bird species.	Protect	NPWS	Data
NPWS habitat and species databases should include fields cross-referencing individual habitat features and species distribution to EPA water body codes for river sections, lakes, transitional waters, coastal waters, and ground waters.	Protect/Restore	NPWS	Data
EPA databases on water body status should include fields cross-referencing individual features to SAC Site Code, SPA Site Code and NPWS Site Name, where the features occur within the boundaries of an SAC or SPA. Fields should also be included to cross-reference lakes to Habitats Directive Annex I listed lake habitats and turloughs, and updated as more habitat information becomes available from NPWS.	Protect/Restore	EPA	Data
The National Abstractions Register should include fields cross-referencing abstractions to the Site Code and Site Name of SACs and SPAs they are located in.	Protect/Restore	EPA	Data
It is recommended that a central Register of relevant databases is established, to include reference to all Water Framework Directive – relevant databases developed and maintained by all relevant agencies including NPWS, EPA, GSI, Central and Regional Fisheries Boards, Marine Institute, Forest Service, Local Authorities.	Protect/Restore	EPA	Data
All agencies holding relevant databases should establish procedures for regular update and notification of updates.	Protect/Restore	All	Data
Agencies displaying information provided and up-dated by other agencies should establish procedures for updating this information, and a means of identifying which version is currently displayed.	Protect/Restore	All	Data
A review of Notifiable Activities by NPWS is in progress. It is recommended that these include review of the findings of monitoring programmes carried out under Commonage Framework Plans.	Protect/Restore	NPWS	Management
Administrative measures relating to the implementation of approved farm plans are recommended.	Protect/Restore	NPWS	Management
Supports for organic farming within protected areas are recommended.	Protect/Restore	NPWS/DAFF	Management
Nutrient and silt loading issues should be addressed with regard to the ecological requirements of individual Annex listed habitats and species present in individual protected areas, with provision for site-specific variation in soils and underlying geology, slope, livestock type, and seasonal restrictions on grazing and/or mowing regimes.	Protect/Restore	NPWS	Management

2.3 Measures for Heavily Modified and Artificial Water Bodies

Some surface waters have been substantially changed in character to allow uses such as navigation, water storage, public supply, flood defence and land drainage. These waters are called “heavily modified” or in the case of entirely new water bodies that would not otherwise have existed, “artificial”. Heavily modified water bodies and artificial water bodies are listed below.

Due to their modified or artificial condition these water bodies can require additional measures to improve their ecological potential. In many cases the structures affect the hydrological regime but often there is inadequate data to assess the impact; the necessary hydrometric data should be collected by the responsible authorities at these sites.

Measures for these special waters were recommended by Waterways Ireland, the South Eastern River Basin District Project (through a DEHLG research project), and the Eastern River Basin District (Tables 2.6 and 2.7).

Table 2.6: Heavily Modified Water Bodies Measures

Water Body	Recommended Measure	Responsible Authorities
River Cammock	Increase in-channel morphological diversity, e.g., install instream features, 2 stage channels. Protect and enhance ecological value of marginal aquatic habitat, banks and riparian zone. Protect and restore historic aquatic habitats.	LA, OPW, CFB, NPWS
River Dodder	Install Fish Passes (provided a guaranteed rating can be provided to the EPA, DCC and OPW for the new configuration post-works) Protect and enhance ecological value of marginal aquatic habitat, banks and riparian zone	LA, OPW, CFB, NPWS
River Liffey	Hydrometric stations to be erected upstream of Pollaphuca Online dataloggers to be installed at Station 09008 Osberstown, Station 09006 Celbridge and downstream of Leixlip,	LA, EPA
River Santry	Examination of structures to assess opportunities for improvement. Use of soft engineering techniques and sustainable drainage where possible.	LAs
River Tolka	Increase in-channel morphological diversity, e.g., install instream features, 2 stage channels. Protect and enhance ecological value of marginal aquatic habitat, banks and riparian zone.	LA, OPW, CFB, NPWS
Glenasmole Reservoir Lower	None identified	
Glenasmole Reservoir Upper	None identified	
Golden Falls	Station 09007 Golden Falls to be upgraded to an online data logger	
Leixlip Reservoirs	Ecological potential study	LAs, NPWS
Lough Nahanagan	None identified	
Pollaphuca	None identified	
Vartry Reservoir Lower	Hydrometric station to be erected downstream of the Vartry reservoir	LA, EPA
Varty Reservoir Upper	None identified	
Boyne Estuary	Increase in-channel morphological diversity. Restore / create / enhance aquatic and marginal habitats.	LA, OPW, CFB, NPWS
Broadmeadow Estuary	None identified	
Dargle Estuary	Restore / create / enhance aquatic and marginal habitats	LAs, DEMNR, NPWS
Liffey Estuary Lower	None identified	
North Bull Island Lagoon	No additional measures	
Tolka Estuary	Increase in-channel morphological diversity. Restore / create / enhance aquatic and marginal habitats.	LA, OPW, CFB, NPWS
Upper Liffey Estuary	Increase in-channel morphological diversity Restore / create / enhance aquatic and marginal habitats	LA, OPW, CFB, NPWS
Dublin Bay	Restore / create / enhance aquatic and marginal habitats	LA, OPW, NPWS, DEMNR

Table 2.7: Artificial Water Bodies Measures

Water Body	Recommended Measure	Responsible Authorities
Grand Canal Dock	Elimination of surface water outfalls where possible. Appropriate controls on diffuse pollution.	Local Authority
Grand Canal Edenderry Branch	None identified	
Royal Canal Main Line	None identified	
Grand Canal Main Line W of Lowtown	None identified	
Grand Canal Main Line E of Lowtown	None identified	
Grand Canal Naas & Corbally Branch	None identified	
Boyne Navigation	None identified	
Turlough Hill Reservoir	None identified	

2.4 Supplementary Measures

Supplementary Measures are required in places where the basic measures alone are judged to be inadequate to achieve good status. These may be specific to particular locations and could be actions included in various good practice and guidance recommendations; alternatively, they may be techniques commonly used in other countries to reduce the impacts of particular pressures.

Supplementary measures identified in this Plan reflect an absence of legislation in some areas of water protection. For example there are few measures in existence to address the problems created by morphological changes to our waters and so it has been necessary to address this gap.

Other supplementary measures have been introduced by users of the River Basin Management System reflecting their local knowledge of the pressures and their experience of efficient actions to rectify these problems. In the draft Plan these supplementary measures were identified separately, were numerous and were widely applied (following cost effectiveness analysis). It is now recognised that any actions necessary to deal with pollution already fall under existing broadly based legislation, particularly the Water Pollution Act (soon to be replaced by the Water Services Act). In this Plan the programme of measures for each water body comprises a combination of the measures previously termed supplementary and certain key elements of basic measures which, jointly, are considered to be the necessary to achieve good status. These have been termed "Priority Actions" to emphasise that it is these actions that are required to achieve the objectives of the Water Framework Directive.

The supplementary measures element of the priority actions identified by the Eastern River Basin District as being necessary in our water bodies or sub catchments are listed in Appendix B. These have been based on detailed assessments of the pressures in each locality, the monitoring data available and local knowledge of the site.

2.5 Planned and Potential Measures

A series of comprehensive research projects commissioned by the DEHLG were designed to advance knowledge in specific areas of each of the main pressures identified in the Water Matters report (www.erbd.ie). Several of these projects recommended additional legislation or improvements in best practice; many of these have not yet passed into legislation, but the main elements of existing legislation and how they should be strengthened, in terms of the major pressures affecting waters in the Eastern River Basin District, are presented in the following sections.

Wastewater and Industrial Discharges

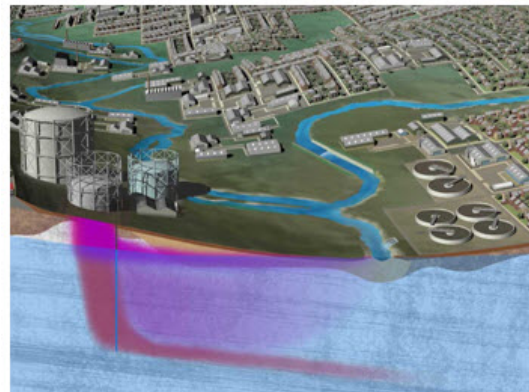
Existing wastewater legislation requires treatment levels dictated by the Ireland's urban wastewater treatment regulations (S.I. 254 of 2001) and, where appropriate, higher levels of treatment to achieve standards for protected areas (for example, bacteria standards in designated bathing areas).

The recently introduced wastewater discharge licensing regulations will be supported by improved decision-support, management and monitoring systems to improve operational control of municipal facilities (S.I. 684 of 2007).

Consent systems for industrial discharges are already in place under the IPPC and Local Authority industrial licensing systems. The Waste Management, Planning and Development, Minerals Licensing and Energy Acts all have systems which also provide for controls of other point discharges such as landfills, quarries, mines and contaminated lands.

New environmental objectives regulations, which the DEHLG plans to introduce to support the Directive, will require review of all wastewater treatment and industrial discharge licences to ensure compliance with Directive's standards in receiving waters.

Industrial and wastewater treatment upgrade works will generally be effective within the first two planning cycles (by 2021). However, where substantial impact has taken place, particularly if groundwaters have been polluted, recovery could take longer.



Urban Pressures

Pressures from urban areas are generated from a combination of point discharges and diffuse discharges into water bodies within the urban catchments. These generally add to any contaminants already discharged upstream.

Existing wastewater legislation dictates treatment levels and discharge levels. The recently introduced wastewater discharge licensing regulations (S.I. 684 of 2007) will improve operational control of both foul/combined sewer systems and wastewater treatment plants. These regulations will also result in the licensing/setting of discharge consents for every combined sewer system overflow (CSO) and waste water treatment plant discharge.



New DEHLG environmental objectives regulations will require a review of all existing or proposed wastewater treatment plant and CSO discharge licences to ensure compliance with the Directive's standards in receiving waters.

In future, higher levels of treatment may have to be put in place in key locations to achieve compliance with agreed national chemical water quality standards for key parameters other than nutrients (for example, metals).

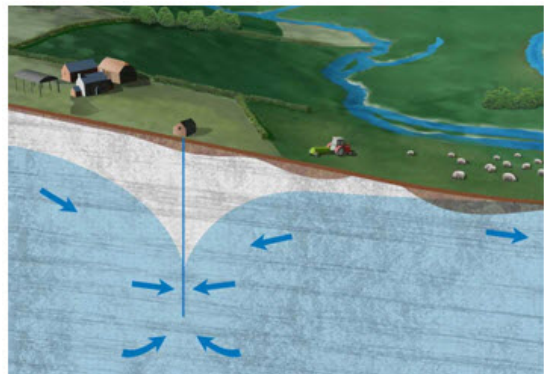
Stormwater collection system discharges are not currently regulated. There may be a future requirement for the introduction of measures to regulate these types of discharges.

Wastewater treatment and sewer collection system upgrade works will generally be effective within the first cycle after implementation. However, in the case of any capital works associated with improved wastewater catchment management, such as the introduction of screening units on storm sewers, the phasing of such works could take many years.

Abstractions

Regulatory and statutory controls including the Water Supplies Act address abstractions to a certain extent, however updating of the provisions of this act is required. This may be supplemented in future by a requirement for licensing.

The DEHLG is proposing new measures in the form of a new regulatory regime for abstractions, initially for groundwaters and supported by decision support tools and monitoring programmes.



In addition, a national water conservation programme is being implemented under the Water Service Investment Programme to reduce leakage and support sustainable water use. Further cost recovery mechanisms are also being considered.

It will take at least one cycle for ecology to recover once measures are applied and status objectives need to allow for the system to re-naturalise. In waters designated as heavily modified because abstractions have substantially altered the physical characteristics or the flow regime, the objectives that will be set by the EPA will take account of these changes.

Physical Modifications

There are few existing regulations but the DEHLG is proposing new regulations for freshwater and marine morphology activities which will be supported by decision support tools, monitoring programmes and further research in this area. This will control all significant activities going forward. Some physical modifications protect communities through flood schemes.



It will take at least one cycle for ecology to recover after remediation.

Dangerous Substances

The key existing pieces of legislation for dangerous substances are plant protection product controls and improved monitoring data and information (which is being collected on the usage, loss and discharges of substances through compliance with European regulations such as Registration, Evaluation and Authorisation of Chemicals (REACH) and European Pollutant Release and Transfer Register (EPRTTR)).

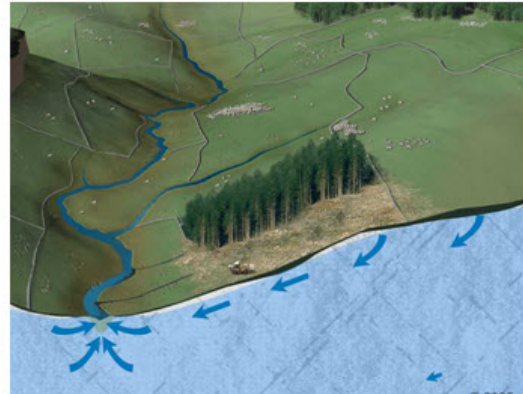
These basic controls will have to be reviewed regularly as new concerns emerge about substances, such as hormone levels in waters.

Pollution reduction programmes are to be put in place by 2012 and will be effective for point source pollution within the first planning cycle. However, where severe point or diffuse pollution problems are identified it may take more than one cycle for ecology to recover.

Forestry

Existing forestry activities are required to operate under EU and National legislation as well as comply with codes of best practice. The requirements are regularly reviewed and updated and will be further strengthened by proposed new guidance on the management of sensitive areas, harvesting methods and restocking practices especially on peat lands. Revision of the Forestry Act is ongoing and should consider current requirements for replanting following felling irrespective of the nature of the site.

As the forest rotation is lengthy, the effect of the measures will not be immediate and it may also take up to a full cycle for ecological status to be restored.



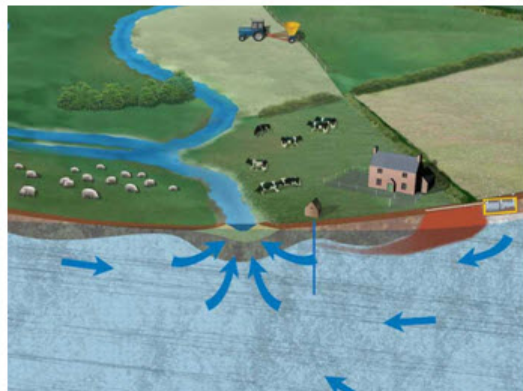
Agriculture

The existing measures in the Good Agricultural Practice regulations (S.I. 378 of 2006) are a legally binding code of practice detailing storage requirements and closed period manure spreading and other nutrient controls. This is supported by EPA in their water quality monitoring and by Teagasc in their Agriculture Catchments Programme which determines the degree to which the measures address the problem. It is further supported by DAFF and Local Authority farm inspections and cross compliance cross reporting arrangements.

Other schemes, such as the voluntary Rural Environmental Protection Scheme (REPS), provide important additional actions which significantly benefit the water environment.

New measures under consideration include establishing source protection zones to protect drinking water supplies and the development of fertiliser/ manure/ soiled water/effluent/ slurry/ silage storage facilities to prevent seepage to ground or surface water.

In terms of achieving good status objectives the response to agricultural measures will improve water quality. It takes time for soil nutrient levels to reduce after lowering stock levels or fertiliser application rates. This means that the timescale to achieve the objectives could be extended beyond one cycle. Note that earlier indicators of agricultural compliance with the Nitrates Action Plan are in built to the programme (e.g. nutrient excess reduction targets to show progress whilst the physical recovery of the system's water quality takes place).



Mobile Organic Compounds (Pesticides) in Groundwater

Pesticides are used in a wide array of settings, including agriculture, forestry, transportation, (urban) amenity (including golf courses), and industry. The largest quantities are used in the agricultural sector, primarily for pest control associated with grassland management, fodder crops (e.g., maize), and arable farming (cereals and root crops). Compared to agriculture and forestry, quantities used in other sectors are small.

Based on past and present usage data, the chemical characteristics of identified pesticides, and experiences from other countries (including the UK), a shortlist of active ingredients has been recommended for the EPA's monitoring efforts for the Directive's purposes.

Overall, risk of groundwater pollution from diffuse pesticide applications in the Eastern River Basin District is considered to be limited. The highest risks are associated with applications in areas of extreme groundwater vulnerability.

EPA is presently undertaking a comprehensive sampling programme of more than 200 wells and springs nationally; 19 of these are in the Eastern River Basin District. The data generated from this programme will be analysed by the EPA in context of the Directive's water quality objectives and status classification for all groundwater bodies in Ireland.

The issue of pesticides is not limited to groundwater alone, however, as they have been detected in surface waters on repeated occasions, with implications for surface water abstractions. Existing legislation exists to protect human and animal health, and the environment, from harmful effects of pesticides, and The Pesticide Control Service of the Department of Agriculture, Fisheries and Food is responsible for implementing regulations associated with plant protection products and biocides.

Wastewater from Unsewered Properties (including Septic Tanks)

Existing basic measures for on-site systems require prior authorisation of new installations through the planning regulations. It is anticipated that these controls will be supported by improved information and guidance on the suitability of proposed sites and stricter enforcement regimes for the inspection of installations. Permits will be required to take into account the environmental objectives of the Plan. This will include new environmental quality standards as published in European Communities Environmental Objectives (Surface Waters) Regulations 2008.

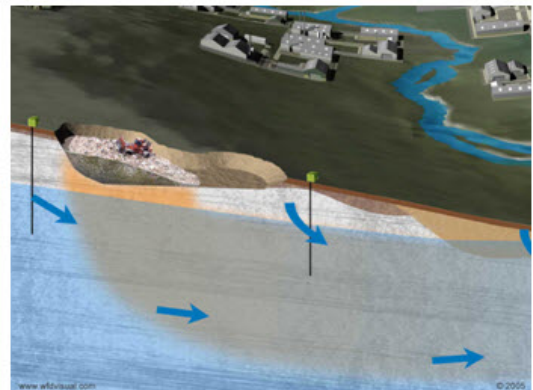
For existing installations, current controls allow for pollution enforcement actions; these powers are to be strengthened in new regulations under the Water Services Act which places a duty of care on owners of unsewered premises to ensure that their treatment systems do not cause a risk to human health or to the environment.

On-site system remediation works will generally be effective within the first cycle provided they are in place by 2012. Sludge management should be considered when assessing treatment plant capacity.

Landfills, Mines and Quarries

The Waste Management, Planning and Development, Minerals Licensing and Energy Acts all have systems providing controls for point discharges such as landfills, quarries, mines and contaminated lands. Landfills must be in compliance with the Landfill Directive and assessment should be carried out on a case-by-case basis

Further information including details of the pressures affecting the waters and the measures needed to deal with these pressures is in electronic form and can be downloaded from the website www.erbd.ie.



Ecological Measures

Many of the measures described in this section address water quality as this will be a key factor in maintaining or improving ecological status. However, other measures will be required to protect and improve habitats and to protect individual species from external pressures. This Plan has identified the need for the creation of improved habitats in several water bodies (notably heavily modified waters and where abstractions are significant) and it is envisaged that such measures will become more important in subsequent plans when water quality has been improved. However, it is recommended that other ecologically based actions are fully considered, including salmon restoration plans where they have been developed.

2.6 Plans and Programmes

Article 13(4) of the Water Framework Directive requests a register of any more detailed programmes and management plans for the river basin district dealing with particular sub catchments, sectors, issues or water types, together with a summary of their content. Up to 300 plans and programmes were identified as listed in the tables in Appendix E of this report. County/City Development Plans are of particular importance as they represent a key element of spatial planning in Ireland.

Flood Risk Management Plans

At a technical level integration with the Floods Directive will be particularly important. The Directive requires that the implementation of the Water Framework Directive and the Floods Directive are coordinated, and that certain aspects of their implementation are based on consistent information. The Report of the Flood Policy Review Group, approved by Government in 2004, set out a new policy on the management of flood risks. This included the preparation of catchment based Flood Risk Management Plans (FRMPs) that will set out the long-term strategy and a prioritised set of measures for managing flood risks, both structural and non-structural. The development of such plans is also a requirement of the Floods Directive (2007/60/EC), which came into force in November 2007, with transposition required by November 2009.

2.7 National Initiatives

The programme of measures identified for each water body addresses the specific problems of that water body; however, there are several issues which apply to all of the waters in the Eastern River Basin District and which are best addressed at a district or national level. These fall under broad headings and are addressed below:

- Hydrological;
- Sustainable use of pesticides;
- Public awareness;
- Climate change; and
- Alien species.

Hydrological Issues

The Protection of Drinking Water is a key issue for human health and measures to address this risk are given high priority by Local Authorities responsible for managing Drinking Water Infrastructure. The Drinking Water Safety Plans produced by Local Authorities for each water source (surface or ground) should be reviewed as required on a site by site basis. Where necessary, detailed field and/or modelling investigations should be undertaken to establish the presence, source and risks from pollutants. Site specific measures should be identified to mitigate the risks; the issues of ensuring their implementation and enforcement should also be addressed as part of the plan implementation process.

The potential for funding of measures to protect drinking water under the Rural Development Programme (Department of Community, Rural and Gaeltacht Affairs) should also be considered by the relevant agencies when addressing resources for Drinking Water protection.

There is also a need for legislation to be revised, where appropriate, in the context of abstractions and compensation flow. In particular, the Liffey Reservoir Act (1936) and the permissions and obligations therein, should be assessed with a view to the objectives and commitments of the Water Framework Directive.

Abstractions are a significant pressure on waters in the Eastern River Basin District because of the population density in the major urban areas. Water sources in the regions are well established, but increasing demand is necessitating greater abstractions of the use of new sources. The EPA has denoted the Lusk Bog of the Ring aquifer as being of poor quantitative status because of over abstraction; it is anticipated that further monitoring will confirm improving water levels now that the abstraction rates have been reduced



More generally, increased efforts should be made to reduce water demand on a regional (or national) scale through the implementation of well established measures such as rainwater harvesting. Leakage reduction in the distribution systems is already being addressed in the Greater Dublin region and DEHLG intend to place a high emphasis on the issue.

National Action Plan for Sustainable Use of Pesticides

New statutory provisions covering the use phase of pesticides will be agreed at EU level during 2009, as part of the EU Thematic Strategy for Pesticides.

These provisions are aimed at ensuring more sustainable use of pesticides, thereby reducing the impact of pesticides on human health and on the environment (including the aquatic environment). A key element of the Thematic Strategy is the proposed Sustainable Use Directive, which will introduce a legal requirement for Member States to draw up National Action Plans with quantitative targets for reducing risks and impacts of pesticide use on the environment. Ireland will begin drafting its National Action Plan for pesticides in the second half of 2009. The plan will address areas such as training and certification of pesticide users, distributors and advisors, calibration and certification of pesticide application equipment, and integrated pest management techniques. It will have a specific focus on the protection of surface water and groundwater.

Public Awareness Campaigns and Schemes

Public awareness campaigns and schemes on a number of issues will contribute to the achievement of environmental improvements. These should include:

- A public awareness campaign on the use and disposal of chemicals such as oils, detergents, paints and solvents. Consideration should also be given to targeting specific audiences on issues such as location of septic tanks, discharges to water and the importance of wetland sites to water quality;
- Campaigns promoting positive actions among groups such as fat removal from hotel and restaurant waste or zero phosphate policies in detergents. Such actions can then be used in promotional marketing material while providing water quality benefits; and
- An information and advice campaign targeted at farmers focused on prevention first, followed by Best Management Practices. Adequate consideration should be given not just to water and biodiversity but also soils and cultural heritage. The campaign should include issues such as:
 - Best practice in the sector in order to demonstrate that an economically viable farming operation is possible within such schemes;
 - Opportunities for agri-tourism as a way to supplement farm income while protecting the environment;
 - Information relating to implementation in areas protected for biodiversity;
 - Information on the Nation Action Plan on Sustainable Use of Pesticides; and
 - Legislation applied to agriculture and the associated requirements and issues.
- A scheme to publicly identify water bodies meeting good or high status (similar to, for example, the Tidy Towns Scheme or the RIPPLE Project in Northern Ireland) would increase a sense of local ownership; and
- A focused awareness campaign on water use and the value of water should be implemented to reduce the volumes of water used or wasted.

Climate Change

The Water Framework Directive's approach to water management, which requires the review of river basin management plans every six years, provides an effective mechanism to prepare for and adapt to climate change.

There is a need to consider the possible effects of climate change when selecting and implementing measures. We highlight the need to integrate river basin management planning with land use planning, climate change and wider environmental issues, all of which are key issues for overall implementation of the Directive.

The Advisory Council received a presentation from a climate change specialist at the National University of Ireland in Maynooth and it is clear that the impacts on rainfall, rivers and lakes, due to climate change, could be profound.

In the Eastern River Basin District it is predicted that less rain will fall during the year, but that more intense storms will be experienced. Year on year the conditions will vary significantly, and from catchment to catchment, and it is not yet clear what conditions should be accommodated.



Heavier winter rain and summer storms may cause more flash flooding, causing an increase in diffuse pollution loads to our waters from soil run-off or the overflow from CSOs and raising demand for flood controls. Summer droughts are more likely and there may be a reduction in drinking water supplies. Temperature changes might give invasive alien species a competitive advantage in our waters, thus affecting biodiversity.

The Strategic Environmental Assessment also assesses the impacts that the action plan could have on the wider environment, including climate.

A critical impact of climate change will be the likely changes to habitats and the flow conditions in rivers and lakes. The Eastern River Basin District has been undertaking research work on the effects of abstractions on river and lake ecology to develop an understanding of the relationship between hydrology, flow, depth and habitats for key species. Potential impacts on water body status are detailed in Table 2.8.

Table 2.8: Potential Climate Change Impacts on Status

Parameters	Potential Impacts
Physicochemical (Water Quality)	Changes in water temperature and dissolved oxygen. Decreased dilution capacity of receiving waters due to lower flows. Increased erosion and diffuse pollution. More frequent spilling of combined sewer outflows. Photoactivation of toxicants. Exceedence of water quality standards.
Biological	Changing metabolic rates of organisms. Changing ecosystem productivity and biodiversity. Fish migration patterns and dispersal corridors. Increased eutrophication and prevalence of algal blooms. Changes in aquatic fauna and flora at reference sites. Changes in species assemblages in designated areas.
Hydro-morphological	Changing river flows and sea levels can lead to erosion or sedimentation. Indirect impacts from land-use practices and agriculture. Hydrological connectivity of slopes, channels and coastal zones. Diffuse and point sources of sediment. Long-term bed load and channel change. Geomorphological processes creating dynamic/diverse habitats.

The strategy of this Plan is to deal with the major problems affecting water quality and ecology in the Eastern River Basin District through widespread implementation of existing legislation and supporting supplementary measures. The effect of these measures will be monitored over time so that they can be evaluated. At the same time more climatic data will become available and predictions of the future climate will become more reliable.

Member State Water Directors recommend making “climate checks” of the programmes of measures in the first river basin management plans. These climate checks should identify the measures best suited to strengthening river basins’ capacities to adapt to climate change.

Further work to incorporate climate change in river basin management planning will be needed when the management plans are revised in 2015 and 2021. Measures will need to be resilient to climate change impacts. This will be especially important for expensive and long-term investments such as large infrastructure projects. Planning for droughts, water scarcity and flood prevention will also become increasingly crucial.

Continuous monitoring of resources and procedures will be required to achieve the objectives of this River Basin Management Plan. This will need to take account of additional climate monitoring and research results as they become available.

Subsequent river basin management cycles will address this topic in more detail, including:

- More focussed monitoring;
- Target water body ‘type’ and ecological status reference conditions for certain water bodies might need to be reconsidered;
- It may be possible to ‘climate-proof’ the Programme of Measures; and
- Contributions may be considered that contribute to global mitigation.

In accordance with the Guidance Document “Water Framework Directive – Draft River Basin Management Plans, Adapting the Plans to Climate Change”, measures specified in the Plan take account of potential impacts of Climate Change through the following requirements in the Directives (Tables 2.9 and 2.10):

Table 2.9: Climate Change in Basic Directives

EU Directive	Climate Change Adaptation
The Bathing Water Directive (2006/7/EC) (76/160/EEC repealed)	Actions should allow for sea level rise and increasing storm surge, including potential washout of pollutants in coastal areas.
The Birds Directive (79/409/EEC)	Actions may be required to replace habitat lost through sea level rise or increased flooding
The Drinking Water Directive (98/83/EC) (80/778/EEC repealed 25/12/2003)	Plans should allow for reduced summer low flows and for increasing flood flows in source contribution zones.
The Major Accidents (Seveso) Directive (96/82/EC) extended by Directive 2003/105/EC	Plans should allow for increasing temperatures.
The Environmental Impact Assessment Directive (85/337/EEC) as amended by Directive 97/11/EC	Projects should assess impacts in the context of climate change.
The Sewage Sludge Directive (86/278/EEC)	Plans should consider potential climate change adaptation issues such as increasing temperature and rainstorms.
The Urban Wastewater Treatment Directive (91/271/EEC)	Consider potential for reduced assimilative capacity in rivers in summer and for changing estuarine flows.
The Plant Protection Products Directive (91/414/EEC)	None
The Nitrates Directive (91/676/EEC)	Actions should allow for potential washout of pollutants to surface waters during increasing rainstorms and for changes in groundwater contribution to surface waters.
The Habitats Directive (92/43/EEC)	Monitor changes in hydrological pressures and review and adjust abstractions and other pressures which reduce groundwater levels in protected areas for groundwater dependent and/or supported habitats and species. Actions to reduce erosion and sedimentation pressures should be able to meet increased risk of extreme events. Consider potential for habitat creation in managed retreat from rising sea level
The Integrated Pollution Prevention Control Directive (96/61/EC)	None

Table 2.10: Climate Change in Other Basic Measures

Other Basic Measure	Climate Change Adaptation
Cost recovery for water use	Increasing efficiency of use of water will be a priority in the context of reducing river low flows in summer, supported by metering, leakage control and potential water harvesting.
Measures to promote efficient and sustainable water use	Increasing efficiency of use of water will be a priority in the context of reducing river low flows in summer, supported by metering, leakage control and potential water harvesting.
Protection of drinking water sources	Plans should allow for reduced summer low flows and for increasing flood flows in source contribution zones.
Control of abstraction and impoundment	Controls should allow for reduced summer low flows and for increased temperatures. Instream impoundments will need to allow for increasing flood flows.
Authorisation of discharges to groundwater	Point source emission limits should allow for changes in temperature.
Control of point source discharges	Authorisation should allow for reduced summer low flows and for increasing flood flows. The range of water table levels may increase in the context of increased winter rainfall and reduced summer rainfall.
Control of diffuse point discharges	Authorisation should allow for reduced summer low flows and for increasing flood flows. The range of water table levels may increase in the context of increased winter rainfall and reduced summer rainfall.
Control of priority substances	None
Controls on physical modifications of surface waters	Authorisation system should require that modifications are adaptable to climate change.
Controls on other activities impacting on water status	None
Prevention or reduction of the impact of accidental pollution incidents	Plans should allow for increasing temperatures and increasing rainstorms and flooding.

In addition to the basic and supplementary measures the Western River Basin District Project has developed measures specifically to protect high status and protected areas. As with the basic measures, these will be mandatory for all such waters.

Climate change adaptation of measures relating to high status sites and protected areas for water dependent habitats and species under the Habitats and Birds Directives will need to address (Table 2.11):

- Reduced habitat fragmentation and protect and restore areas of floodplains and wetlands;
- Changes to ground and surface water flow regime;
- Changes to erosion and sedimentation pressures;
- Changes to diffuse and point source nutrient loadings; and
- Avoidance of adverse impacts in forward planning.

Similar measures are likely where status is downgraded due to water dependent habitats and species being at unfavourable conservation status under the Habitats Directive. Sub catchment plans should be adaptable to allow for climate change induced changes in pressures

Table 2.11: Measures for High Status Waters and Protected Areas developed by the EPA (courtesy of the Western River Basin District Project)

Action	Climate Change Element of Measure
Continued monitoring and survey by NPWS to confirm conservation status	Monitoring will address impact of changes to water regime and water dependent habitats and species
Identify alternative solutions where existing abstractions are implicated in causing unfavourable conservation status	Monitoring will address impact of changes to water regime and water dependent habitats and species
Use existing analyses of risks and pressures in relevant catchments to identify the suite of WFD Measures that will contribute to resolving unfavourable conservation status for individual SACs. Include examination of ortho-photography in the review. LA Biodiversity Officers should be involved. Consult with NPWS	Will address impact of changes to water regime and water dependent habitats and species
Consult with NPWS on identifying any additional risks and sensitivities, and any additional Measures relevant to individual sites/features at unfavourable conservation status, including investigative/operational monitoring needs	Avoidance of adverse impacts in forward planning.
Document plans specific to each SAC unfavourable conservation status issue, (with reference to Sections 4 and 5 of the guidance, submit to and implement in consultation with NPWS	Will address impact of changes to water regime and water dependent habitats and species
Use sensitivities of water dependent habitats and species to water quality and hydrological pressures as set out in Sections 3 and 5 to guide decision making	Avoidance of adverse impacts in forward planning
Update the Register of Protected Areas in respect of SACs designated under the Habitats Directive for Annex 1 listed water dependent habitats and Annex 2 species. (SAC Water Dependency database field WD H S)	Will address impact of changes to water regime and water dependent habitats and species
It is recommended that a central Register of relevant databases is established, to include reference to all Water Framework Directive – relevant databases developed and maintained by all relevant agencies including NPWS, EPA, GSI, Central and Regional Fisheries Boards, Marine Institute, Forest Service, Local Authorities	Contribute to the avoidance of adverse impacts in forward planning
Nutrient and silt loading issues should be addressed with regard to the ecological requirements of individual Annex listed habitats and species present in individual Protected Areas, with provision for site-specific variation in soils and underlying geology, slope, livestock type, and seasonal restrictions on grazing and/or mowing regimes	Will address impact of changes to water regime and water dependent habitats and species

Invasive Species

Alien species are non-indigenous invasive flora and fauna, which threaten the native ecology. Invasive alien species negatively impact Irish biodiversity through competition, herbivory, predation, habitat alteration and introduction of parasites or pathogens and thus pose a risk to the genetic integrity of our native species. Terrestrial and aquatic habitats can be negatively affected, resulting in severe damage to conservation and economic interests, such as agriculture, fisheries, forestry and various recreational activities.

Three particular species of concern are present in the Eastern River Basin District: Japanese Knotweed (*Fallopia japonica*), Giant Knotweed (*Fallopia sachalinensis*) and Himalayan Balsam (*Impatiens glandulifera*). Japanese Knotweed out-competes local species, such as sea grasses and kelp, for space and light.

Preventing the spread of alien species and new introductions of alien species is an issue of shared responsibility and requires the involvement of government agencies, academia, and private and voluntary sectors. The Invasive Species Ireland project began in 2006 and aims to reduce the impact and threats from invasive species on the island of Ireland and is a joint initiative between the National Parks and Wildlife Service and Northern Ireland Environment Agency.

In Ireland the most prominent of the negative impacts appears to be direct competition with native biota, whilst alteration to habitats and the influence of parasites and pathogens are also important. Habitats under threat include freshwater river systems, coastal floodplain, coastal saltmarsh and coastal sand dunes.

Several departments and agencies have responsibility for managing aspects of invasive species and so several different legislative instruments are relevant (Table 2.12). Ireland also has international obligations to address invasive species issues, principally the Convention on Biological Diversity, International Plant Protection Convention, Bern Convention and the Habitats Directive. Key existing obligations and legislation include:

Table 2.12: Key Obligations and Legislation for Alien Species

European legislation relevant to non-native species		
Wildlife Trade Regulation: Council Regulation (EC) No 338/97 on the protection of species of wild fauna and flora by regulating trade therein Commission Regulation (EC) No 939/97 laying down detailed rules concerning the implementation of Council Regulation (EC) No 338/97 Commission Regulation (EC) NO191/2001 suspending the introduction into the Community of specimens of certain species of wild fauna and flora	1997	Trade-related agreements/Biodiversity conservation
Habitats Directive: Council Directive 92/43/EEC on the conservation of natural habitats and of wild fauna and flora	1992	Biodiversity conservation
Birds Directive: Council Directive 79/409/EEC on the conservation of wild birds	1979	Biodiversity conservation
Environmental Impact Assessment Directive Council Directive 85/337/EEC on the assessment of the effects of certain public and private projects on the environment Council Directive 97/11/EC amending Directive 85/337/EEC on the assessment of the effects of certain public and private projects on the environment	1985 1997	Environmental protection
Forest Reproductive Material Directive Council Directive 1999/105/EC on the marketing of forest reproductive material	1999	Phytosanitary measures & biodiversity conservation
Plant Health Directive Council Directive 2000/29/EC on protective measures against the introduction into the Community of organisms harmful to plants or plant products and against their spread within the community	2000	Phytosanitary measures & biodiversity conservation
Plant Protection Products Directive Council Directive 91/414/EEC of 15 July 1991 concerning the placing of plant protection products on the market	1991	Phytosanitary measures & biodiversity conservation
Fish Health Directive Council Directive 91/67/EEC concerning the animal health conditions governing the placing on the market of aquaculture animals and products	1991	Sanitary measures
Animal Health Directives Council Directive 90/425/EEC concerning veterinary and zootechnical checks applicable in intra-Community trade in certain live animals and products with a view to the completion of the internal market.	1990	Sanitary measures
Domestic legislation relevant to non-native species		
Wildlife Act Wildlife (Amendment) Act	1976 2000	Biodiversity conservation
Environmental Protection Agency Act	1992	Biodiversity conservation
Heritage Act	1995	Biodiversity conservation
Marketing of ornamental plant propagating material (Amended 1999)	1995	Phytosanitary measures
Marketing of Forest Reproductive Material Regulations S.I. 2002/618	2002	Forestry
The Foot and Mouth Disease (Hay, Straw and Peat Moss Litter) Order	2001	Sanitary Measures
Forestry Act	1988	Forestry
The Fisheries Act	1980	Fisheries
Dumping at Sea Act	1996	Marine
International instruments concerning non-native species relevant to Ireland		
Convention on Biological Diversity (CBD)	1993	Biodiversity Conservation
Bern Convention on conservation of European wildlife and Natural Habitats.	1982	Biodiversity Conservation
Bonn Convention on the Conservation of Migratory Species of Wild Animals	1983	Biodiversity Conservation
IUCN Guidelines for the prevention of Biodiversity loss caused by alien invasive species	2000	Biodiversity Conservation
Convention on Wetlands of International importance especially as Waterfowl Habitat (Ramsar Convention)	1975	Biodiversity Conservation
Agenda 21	1992	Biodiversity Conservation
Ministerial Conference for the Protection of Forest in Europe	1993	Biodiversity Conservation
International Maritime Organisation (IMO) Guidelines for the control and management of ships' ballast water to minimise the transfer of harmful aquatic organisms and pathogens	1997	Aquatic environment
International Council for Exploration of the Sea (ICES) Code of Practice on the Introductions and Transfers of Marine Organisms, 1994	1994	Aquatic environment
United Nations Convention on the Law of the Sea (UNCLOS)	1994	Aquatic environment
Food and Agriculture Organisation (FAO) Code of Conduct for Responsible Fisheries	1995	Phytosanitary measures
International Plant Protection Convention (IPPC)	1951	Phytosanitary measures
Food and Agriculture Organisation (FAO) Code for the Import and Release of Exotic Biological Control Agents.	1996	Phytosanitary measures
Convention on International Trade in Endangered species of wild fauna and flora (CITES)	1975	Trade-related agreements

WTO Agreement on Sanitary and Phytosanitary measures (SPS Agreement)	1995	Trade-related agreements
International Civil Aviation Organisation (ICAO) Resolution on Preventing the Introduction of Invasive Alien Species	1998	Transport

The National Invasive Species Database project has compiled a Priority Species List of particular concern for both non-plant and plant species (Table 2.13 and Table 2.14).

Table 2.13: Priority List for Non-plant Species

Taxon name	Common name	Habitat
Ameiurus nebulosus	Brown Bullhead Catfish	Freshwater
Anguillicola crassus	none	Parasitic
Arthurdendyus triangulatus	New Zealand Flatworm	Terrestrial
Balanus improvisus	none	Marine
Branta canadensis	Canada Goose	Terrestrial
Cervus nippon	Sika Deer	Terrestrial
Crangonyx pseudogracilis	Freshwater Shrimp	Freshwater
Crassostrea gigas	Pacific Oyster	Marine
Cyprinus carpio	Carp ISI	Freshwater
Didemnum species	none ISI	Marine
Dreissena polymorpha	Zebra Mussel ISI	Freshwater
Eriocheir sinensis	Chinese Mitten Crab ISI	Freshwater
Gammarus pulex	Freshwater Shrimp	Freshwater
Gammarus tigrinus	Freshwater Shrimp	Freshwater
Lepus europeus	Brown Hare	Terrestrial
Leuciscus cephalus	Chub	Freshwater
Leuciscus leuciscus	Dace	Freshwater
Mustela furo	Feral Ferret	Terrestrial
Mustela vison	American Mink	Terrestrial
Oxyura jamaicensis	Ruddy Duck	Terrestrial
Perca fluviatilis	Perch	Freshwater
Physella acuta	none	Terrestrial
Physella gyrina	Tadpole Physa	Terrestrial
Rattus norvegicus	Brown Rat	Terrestrial
Rattus rattus	Ship Rat	Terrestrial
Rutilus rutilus	Roach	Freshwater
Sciurus carolinensis	Grey Squirrel	Terrestrial

Table 2.14: Priority List for Plant Species

Taxon name	Common name	Habitat
Acaena anserinifolia	Bronze Pirri-pirri-bur	Terrestrial
Acaena novae-zelandiae	Biddy Biddy/Pirri-pirri-bur	Terrestrial
Acaena ovalifolia	Two-Spined Acaena	Terrestrial
Acer pseudoplatanus	Sycamore	Terrestrial
Aponogeton distachyos	Cape-pondweed	Freshwater
Azolla filiculoides	Water Fern	Freshwater
Carpobrotus edulis	Hottentot-fig	Freshwater
Clematis vitalba	Traveller's Joy	Terrestrial
Cornus sericea	Red Osier Dogwood	Terrestrial
Cotoneaster horizontalis	Wall Cotoneaster	Terrestrial
Cotoneaster integrifolius	Entire-leaved Cotoneaster	Terrestrial
Crassula helmsii	New Zealand Pigmyweed	Freshwater
Crocsmia x crocosmiiflora	Montbretia	Terrestrial
Cyperus eragrostis	Pale Galingale	Terrestrial
Egeria densa	South American Waterweed	Freshwater
Elodea canadensis	Canadian Waterweed	Freshwater
Elodea nuttallii	Nuttall's Waterweed	Freshwater
Gaultheria mucronata	Prickly Heath	Terrestrial
Gaultheria shallon	Shallon	Terrestrial
Fallopia japonica	Japanese Knotweed	Terrestrial
Fallopia sachalinensis	Giant Knotweed	Terrestrial
Glyceria maxima	Reed Sweet-grass	Terrestrial
Gunnera tinctoria	Giant-rhubarb	Terrestrial
Heracleum mantegazzianum	Giant Hogweed	Terrestrial
Hippophae rhamnoides	Sea Buckthorn	Terrestrial
Hottonia palustris	Water-violet	Freshwater
Hyacinthoides hispanica	Spanish Bluebell	Terrestrial
Hyacinthoides non-scripta x hispanica	none	Terrestrial

Taxon name	Common name	Habitat
<i>Hydrocotyle ranunculoides</i>	Floating Pennywort	Freshwater
<i>Impatiens glandulifera</i>	Himalayan Balsam	Terrestrial
<i>Juncus planifolius</i>	Broad-leaved Rush	Terrestrial
<i>Lagarosiphon major</i>	Curly Waterweed	Freshwater
<i>Lagarus ovatus</i>	Hare's-tail	Terrestrial
<i>Lemna minuta</i>	Least Duckweed	Freshwater
<i>Libertia formosa</i>	Chilean Iris	Terrestrial
<i>Lonicera japonica</i>	Japanese Honeysuckle	Terrestrial
<i>Lupinus polyphyllus</i>	Garden Lupin	Terrestrial
<i>Lysichiton americanus</i>	Yellow Skunk-cabbage	Freshwater
<i>Mycelis muralis</i>	Wall Lettuce	Terrestrial
<i>Myriophyllum aquaticum</i>	Parrot's Feather	Freshwater
<i>Petasites fragrans</i>	Water Heliotrope	Terrestrial
<i>Picea sitchensis</i>	Sitka Spruce	Terrestrial
<i>Pinus contorta</i>	Lodgepole Pine	Terrestrial
<i>Phormium tenax</i>	New Zealand Flax	Terrestrial
<i>Prunus laurocerasus</i>	Cherry-laurel	Terrestrial
<i>Rhododendron ponticum</i>	Rhododendron	Terrestrial
<i>Rosa rugosa</i>	Japanese Rose	Terrestrial
<i>Rubus spectabilis</i>	Salmonberry	Terrestrial
<i>Sagittaria rigida</i>	Canadian Arrowhead	Freshwater
<i>Sarracenia purpurea</i>	Pitcherplant	Terrestrial
<i>Sargassum muticum</i>	Wire Weed	Marine
<i>Sasa palmata</i>	Broad-leaved Bamboo	Terrestrial
<i>Sedum album</i>	White Stonecrop	Terrestrial
<i>Senecio cineraria</i>	Silver Ragwort	Terrestrial
<i>Sisyrinchium californicum</i>	Yellow-eyed-grass	Terrestrial
<i>Spartina anglica</i>	Common Cord-grass	Terrestrial
<i>Stratiotes aloides</i>	Water-soldier	Terrestrial
<i>Symphoricarpos albus</i>	Snowberry	Terrestrial
<i>Nymphoides peltata</i>	Fringed Water-lily	Freshwater

This Plan recommends that to minimise negative impacts from invasive species:

- Best Practice Management Guidelines for Invasive Species should be followed where appropriate; and
- Invasive Species Action Plans should be followed where appropriate.

In parallel with the concern about invasive species and the implementation of Action Plans, biosecurity plans should be put in place where necessary to prevent negative impacts to fish populations and their habitats including the transmission of diseases or parasites.

3. Costs of Measures

Tables 3.1 and 3.2 present a summary of the priority actions (the combination of selected basic and supplementary measures), together with their relative costs, that are recommended to be applied in each water body or sub catchment grouped by the source of pressure, for example wastewater treatment plants or abstractions. A unique combination of measures has been identified to address the particular set of pressures that affect each sub catchment or water body.

Maps 3.1 – 3.3 show the water management units and water bodies individually. Table 3.3 provides the names of the groundwater bodies represented by number codes on Map 3.3.

Estimates of cost and effectiveness have been developed for each individual measures in the programme of measures for each sub-catchment or water body for the period 2009 – 2015 and these are available in the river basin management system; a summary is provided in Section 10 of the Plan and in more detail in Section 5 of this Programme of Measures document. At this stage the costs are approximate, sometimes based on unit values or capital costs for works already planned. All of the assumptions that have been used in the process of measures selection and evaluation have been recorded in the RBMS and are also available for review. As more accurate information becomes available through pilot studies and other sources, then this can readily be incorporated, and the cost calculations revised accordingly.

Table 3.1: Recommended Programme of Measures: Basic Measures
Measures to Reduce Impact from Source Type

Water Management Unit / Water Body	Measures to Reduce Impact from Source												
	Abstractions	Agricultural Point and Diffuse Sources	Unlicensed Agricultural Point Sources	Chemical Fertiliser	Planning, Development and other sources	Dangerous Substances	Forestry	Industrial Sources	Manure Fertilisers	Intensive Landuse	Local Authority Licenced Discharges	Wastewater Treatment Plants	Indicative Total
Acurry (Lough)	€€	€	€	€									€€
Aleckafin_CL								*					*
Annagh Lough or White Lough	€						€€		€				€€
Ashford S&G		*	*						*				*
Athboy	€	€	€€€€		€				€€		€	€€€	€€€€
Athboy (001)		*	*						*				*
Avoca	€	€€	€€€€€		€	€		€	€€		€€	€	€€€€€
Avoca Estuary					€	€€€				€	€	€€€€€	€€€€€
Ballany S&G		*	*						*				*
Ballyboghil	€	€	€€€						€		€	€€€€€€€	€€€€€€€
Ballymore Eustace S&G		*	*						*				*
Baltray	€	€€	€€€	€	€				€		€		€€€
Balytunny	€	€	€€						€		€		€€
Bane (Lough)	€€												€€
Basketstown_LF								*					*
Bettystown						€							€
Blackwater North	€	€€€€	€€€€€		€				€€		€€	€€€	€€€€€
Blackwater South	€	€€€	€€€		€€				€€		€€	€€€	€€€€
Blessington S&G						€							€
Boyle_CL								*					*
Boyne Estuary		€€				€€						€€€€	€€€€€
Boyne Estuary Plume Zone													€
Boyne Lower	€	€€	€€€€€		€				€€		€€	€€€€€	€€€€€€
Boyne Upper	€	€€€€	€€€		€€				€€		€€	€€€€€	€€€€€€
Bray Lower (Lough)													€€

Water Management Unit / Water Body	Measures to Reduce Impact from Source												
	Abstractions	Agricultural Point and Diffuse Sources	Unlicensed Agricultural Point Sources	Chemical Fertiliser	Planning, Development and other sources	Dangerous Substances	Forestry	Industrial Sources	Manure Fertilisers	Intensive Landuse	Local Authority Licenced Discharges	Wastewater Treatment Plants	Indicative Total
Broad Lough		€€€											€€€€
Broadmeadow	€	€	€€€					€€			€€	€€€€€€€€	€€€€€€€€
Broadmeadow Water		€€€			€	€€					€	€€€€€€€€	€€€€€€€€
Cammock	€	€	€€		€€	€€		€€	€		€€€€	€€	€€€€€
Dargle	€	€	€€€		€€	€€			€€		€	€	€€€€
Deel	€	€€	€€		€				€		€	€	€€€
Delvin	€	€	€€€						€€		€	€€€€€€€€	€€€€€€€€
Devlin (Mattock)	€	€€	€€€€	€		€			€€		€		€€€€
Dodder	€	€€	€€		€€€	€€€		€€			€€€	€€	€€€€
Donabate	€	€	€€						€		€	€€€€€€€€	€€€€€€€€
Doo (Lough)	€												€
Drogheda		*	*			€			*				€
Drogheda Urban		*	*			€		*	*			*	€
Drogheda_LF								*					*
Drumkeery Lough	€€	€	€€						€€€				€€€
Dublin Bay					€€€	€€€€					€€€	€€	€€€€
Dublin Urban		*	*			*		*	*			*	*
Duleek		*	*						*				*
Dunshaughlin		*	*						*				*
Enniskerry S&G		*	*			€			*				€
Fassaroe_LF								*					*
Glass (Lough)	€												€
Glenasmole Reservoirs (068)	€€€	€	€€	€	€€						€	€	€€€
Glenasmole Reservoirs (070)	€	€	€€	€	€						€	€	€€
Glendalough Lower Lake								€€	€				€€
Glendalough Upper Lake								€€	€				€€

Water Management Unit / Water Body	Measures to Reduce Impact from Source												
	Abstractions	Agricultural Point and Diffuse Sources	Unlicensed Agricultural Point Sources	Chemical Fertiliser	Planning, Development and other sources	Dangerous Substances	Forestry	Industrial Sources	Manure Fertilisers	Intensive Landuse	Local Authority Licenced Discharges	Wastewater Treatment Plants	Indicative Total
Golden Falls Reservoir		€			€								€
Irish Sea Dublin (HA 09)					€€					€			€€€
Kilcoole S&G						€							€
Kilcullen													*
Kilmurry	€	€	€€		€	€		€	€		€	€	€€€
Leixlip Liffey Reservoir	€				€€							€	€€€
Lene (Lough)	€€				€								€€
Liffey	€€€	€€€€	€€€€		€€€€	€€€		€€	€€		€€€	€€€€€€	€€€€€€
Liffey Estuary Lower						€€					€	€€€€€€	€€€€€€
Liffey Estuary Upper						€€		€€			€		€€€
Lough Lene													*
Lusk	€	€	€€€						€€		€	€€€€€€	€€€€€€
Lusk-Bog of the Ring	*	*	*			€			*				€
Lusk-West			*			€							€
Malahide Bay					€	€€						€€€€	€€€€
Mayne Estuary					€	€				€			€€€
Mosney	€	€	€€€						€		€		€€€
Moynalty		*	*			€			*				€
Naas		*	*			*			*				*
Naas_CL								*					*
Nadreegeal Loughs	€€	€	€€						€€				€€€
Nahanagan (Lough)													€€
Nanny	€	€€	€€€€						€€		€€	€€€	€€€€
Nanny Estuary		€€€				€		€€					€€€
Navan Orebody		*	*						*				*
Newcastle	€	€	€€€						€€		€		€€€

Water Management Unit / Water Body	Measures to Reduce Impact from Source												
	Abstractions	Agricultural Point and Diffuse Sources	Unlicensed Agricultural Point Sources	Chemical Fertiliser	Planning, Development and other sources	Dangerous Substances	Forestry	Industrial Sources	Manure Fertilisers	Intensive Landuse	Local Authority Licenced Discharges	Wastewater Treatment Plants	Indicative Total
Newtown Lough		*	*					*					*
North Bull Island													€€€
Northwestern Irish Sea (HA 08)					€€	€€		€€			€	€€€€€€€€	€€€€€€€€
Old Kilcullen S&G		*	*					*					*
Pollaphuca Reservoir		€	€€€		€€	€€	€€	€€	€€		€	€€€€	€€€€
Potters	€	€	€€€€		€			€€			€		€€€€
Ramor (Lough)		€	€€€			€€		€€	€€		€€	€€€€	€€€€
Rathnew	€	€	€€€					€			€		€€€
Rogerstown Estuary		€€			€€	€€		€€		€		€€€€€€€€	€€€€€€€€
Rye Water Valley GWDTE						€		*				*	€
Ryewater	€	€€€€	€€€€		€€			€€			€€	€€€	€€€€€€
Santry_Mayne_Sluice	€	€	€€		€€			€	€		€€€	€€	€€€
Shanganagh	€	€			€€€	€		€			€		€€€
Southwestern Irish Sea - Brittas Bay (HA 10)					€€€	€€€€		€€		€	€		€€€€
Southwestern Irish Sea - Killiney Bay (HA10)					€€€	€		€		€	€€	€€€€€€€€	€€€€€€€€
Stonyford	€	€€	€€€					€			€	€	€€€
Swords_CL								*					*
Tay (Lough)							€€	€					€€
Tempelrainy	€	€	€€					€					€€€
Tinnakilly_CL								*					*
Tolka	€	€	€€€€		€€			€	€€		€€€	€€€€	€€€€€€
Tolka Estuary						€€					€		€€€
Trim		*	*			€€		*	*				€€
Upper Lough Skeagh	€€	€	€€					€€€					€€€
Vartry	€	€	€€€		€			€€			€		€€€
Vartry Reservoir Lower	€€				€€							€	€€

Water Management Unit / Water Body	Measures to Reduce Impact from Source												
	Abstractions	Agricultural Point and Diffuse Sources	Unlicensed Agricultural Point Sources	Chemical Fertiliser	Planning, Development and other sources	Dangerous Substances	Forestry	Industrial Sources	Manure Fertilisers	Intensive Landuse	Local Authority Licenced Discharges	Wastewater Treatment Plants	Indicative Total
Varry Reservoir Upper	€€				€€							€	€€
Walkinstown_CL								*					*
Wicklow Central (Avoca Mine)						€€							€€
Wicklow East	*	*	*						*				*
Wilinstown		*	*			€			*				€
Grand Total	€€€	€€€€€€€	€€€€€€€	€€	€€€€€	€€€€€	€€	€€€	€€€€	€	€€€€€	€€€€€€€	€€€€€€€

*	This indicates that the chosen measure benefits both surface and groundwater and the costs have only been applied to surface water (rivers, lakes, transitional and coastal) to avoid double counting
€	€100,000
€€	€1,000,000
€€€	€5,000,000
€€€€	€15,000,000
€€€€€	€30,000,000
€€€€€€	€50,000,000
€€€€€€€	>€50,000,000

Table 3.2: Recommended Programme of Measures: Supplementary Measures
Measures to Reduce Impact from Source Type

Water Management Unit / Water Body	Measures to Reduce Impact from Source															
	Abstractions	Agricultural Point and Diffuse Sources	Unlicensed Agricultural Point Sources	Chemical Fertiliser	Planning, Development and other sources	An Absence of sufficient data	Dangerous Substances	Forestry	To Protect High Status Waters	Manure Fertilisers	Intensive Landuse	Local Authority Licenced Discharges	Onsite Wastewater Treatment Systems	Urban Diffuse Pollution	Wastewater Treatment Plants	Indicative Total
Acurry (Lough)	€				€											€
Aleckafin_CL					*								*		€	€
Annagh Lough or White Lough					€			€		€						€
Arklow_Urban					*								*		€	€
Ashbourne Urban Nth					*								*		€	€
Ashbourne Urban Sth					*								*		€	€
Ashford S&G					*								*		€	€
Athboy	€		€€	€	€	€				€	€		€€		€€€€	€€€€
Athboy (001)				€	*								*		€€	€€
Avoca	€€		€€		€	€€€	€€€€€	€€			€€		€€€	€	€€€€	€€€€€€
Avoca Estuary					€	€€			€		€€		€€	€€		€€€
Bailieborough					*								*		€€	€€
Balbriggan				€	*								*		€	€
Balbriggan Urban				€	*								*		€	€
Ballany S&G					*								*		€	€
Ballyboghil	€		€€		€								€€		€€	€€€
Ballymore Eustace S&G					*								*		€	€
Balrothery				€	*								*		€	€
Baltray	€				€	€							€€€		€€	€€€
Balytunny	€		€		€	€€							€		€€	€€
Bane (Lough)	€€				€	€										€€
Basketstown_LF					*								*		€	€
Ben Lough					€	€€										€€
Bettystown				€		€€	€						*		€€	€€

Water Management Unit / Water Body	Measures to Reduce Impact from Source															
	Abstractions	Agricultural Point and Diffuse Sources	Unlicensed Agricultural Point Sources	Chemical Fertiliser	Planning, Development and other sources	An Absence of sufficient data	Dangerous Substances	Forestry	To Protect High Status Waters	Manure Fertilisers	Intensive Landuse	Local Authority Licenced Discharges	Onsite Wastewater Treatment Systems	Urban Diffuse Pollution	Wastewater Treatment Plants	Indicative Total
Blackwater North	€€		€€	€	€	€€				€	€		€€€	€€	€€€€	€€€€€
Blackwater South	€		€€	€	€	€€				€	€		€€€		€€€	€€€€
Blessington S&G				€	*		€						*		€	€
Boyle_CL					*	*							*		€	€
Boyne Estuary					€	€€	€		€		€			€€	€€€	€€€
Boyne Estuary Plume Zone					€											€
Boyne Lower	€	€	€€	€	€	€€				€			€€€		€€€€€	€€€€€
Boyne Upper	€		€€	€	€	€€	€			€	€€		€€€		€€€	€€€€
Bray Lower (Lough)					€	€			€							€
Bray Upper (Lough)					€	€										€
Bray Urban					*								*		€	€
Broad Lough					€	€			€					€€	€€	€€€
Broadmeadow	€	€	€€	€	€	€€				€	€		€€€€		€€	€€€€
Broadmeadow Water					€	€			€		€			€€	€€€	€€€
Cammock	€				€	€€€					€			€€€€	€€€€€€	€€€€€€
Castlekeeran S&G					*								*		€	€
Curragh S&G				€	*								*		€	€
Dan (Lough)					€											€
Dargle	€		€€		€	€€	€	€	€		€€€€		€€€	€	€€€€€	€€€€€
Dargle Estuary					€	€					€					€
Deel	€€		€		€	€€				€			€€		€€€	€€€
Delvin	€		€€	€	€	€				€			€€		€€€€€	€€€€€
Devlin (Mattock)	€		€€		€	€				€	€		€€€		€€€	€€€
Dodder	€€€				€€	€€€€			€€		€€€€			€€€€	€€€€€€€	€€€€€€€
Donabate	€		€		€	€							€€		€€€€€€	€€€€€€
Donore					*								*		€	€

Water Management Unit / Water Body	Measures to Reduce Impact from Source															
	Abstractions	Agricultural Point and Diffuse Sources	Unlicensed Agricultural Point Sources	Chemical Fertiliser	Planning, Development and other sources	An Absence of sufficient data	Dangerous Substances	Forestry	To Protect High Status Waters	Manure Fertilisers	Intensive Landuse	Local Authority Licenced Discharges	Onsite Wastewater Treatment Systems	Urban Diffuse Pollution	Wastewater Treatment Plants	Indicative Total
Doo (Lough)					€	€										€
Drogheda				€	*	€€	€						*		€€	€€
Drogheda Urban					*	€€	€						*		€€	€€
Drogheda_LF					*	*							*		€	€
Drumkeery Lough	€				€	€			€				€€			€€
Dublin				€	*								*		€	€
Dublin Bay					€	€€	€		€		€	€€		€€€	€€€	€€€
Dublin Urban				€	*		€						*		€€	€€
Duleek				€	*								*		€	€
Dunshaughlin					*								*		€	€
Enniskerry S&G				€	*		€						*		€	€
Fassaroe_LF					*								*		€	€
Glass (Lough)					€	€										€
Glenasmole Reservoirs (068)	€€					€			€		€					€€
Glenasmole Reservoirs (070)	€					€			€		€					€
Glendalough Lower Lake					€			€		€						€
Glendalough Upper Lake					€	€		€		€						€
Golden Falls Reservoir	€€	€	€			€							€			€€
Gormanstown S&G				€	*								*		€	€
Greystones Urban					*								*		€	€
Hill of Tara					*								*		€	€
Hynestown				€	*								*		€	€
Irish Sea Dublin (HA 09)					€	€€										€€
Kilcoole Marsh					€	€										€
Kilcoole S&G				€	*		€						*		€	€
Kilcullen				€	*								*		€€	€€

Water Management Unit / Water Body	Measures to Reduce Impact from Source															
	Abstractions	Agricultural Point and Diffuse Sources	Unlicensed Agricultural Point Sources	Chemical Fertiliser	Planning, Development and other sources	An Absence of sufficient data	Dangerous Substances	Forestry	To Protect High Status Waters	Manure Fertilisers	Intensive Landuse	Local Authority Licenced Discharges	Onsite Wastewater Treatment Systems	Urban Diffuse Pollution	Wastewater Treatment Plants	Indicative Total
Killyconny Bog (Cloghbally)					*								*		€	€
Kilmurry	€		€		€	€							€		€€	€€
Kilrathmurry S&G					*								*		€	€
Leixlip Liffey Reservoir	€					€			€		€					€€
Lene (Lough)	€				€	€										€€
Liffey	€€€		€€		€	€€€€	€	€	€		€€		€€€	€€€€	€€€€€€€€	€€€€€€€€
Liffey Estuary Lower						€			€		€	€		€€	€€€€€€	€€€€€€
Liffey Estuary Upper					€	€			€		€	€		€€	€€€€€€	€€€€€€
Longwood					*								*		€	€
Lough Lene					*	€€							*		€€	€€
Lusk	€		€€		€	€							€€			€€
Lusk-Bog of the Ring	€€			€			€						*		€	€€
Lusk-East				€	*								*		€	€
Lusk-West				€	*		€						*		€	€
Malahide Bay					€	€			€					€€	€€€	€€€
Mayne Estuary					€	€			€		€€			€€	€€	€€€
Mosney	€		€	€	€				€				€€		€€	€€
Mount Hevey Bog					*								*		€	€
Moynalty					*		€						*		€	€
Moynalvy					*								*		€	€
Naas					*								*		€	€
Naas Bedrock Nth Urban					*								*		€	€
Naas Bedrock Sth Urban					*								*		€	€
Naas_CL					*								*		€	€
Naas_SG Urban					*								*		€	€
Nadreegeal Loughs	€				€	€			€							€€

Water Management Unit / Water Body	Measures to Reduce Impact from Source															
	Abstractions	Agricultural Point and Diffuse Sources	Unlicensed Agricultural Point Sources	Chemical Fertiliser	Planning, Development and other sources	An Absence of sufficient data	Dangerous Substances	Forestry	To Protect High Status Waters	Manure Fertilisers	Intensive Landuse	Local Authority Licenced Discharges	Onsite Wastewater Treatment Systems	Urban Diffuse Pollution	Wastewater Treatment Plants	Indicative Total
Nahanagan (Lough)					€	€					€					€
Nanny	€		€€	€	€	€€				€			€€€€		€€€€	€€€€€
Nanny Estuary					€	€									€€	€€
Navan Nth Urban					*								*		€	€
Navan Orebody					*								*		€	€
Navan Orebody 2					*								*		€	€
Navan Sth Urban					*								*		€	€
Navan Tailings					*								*		€	€
Newbridge Urban					*								*		€	€
Newcastle	€		€		€	€€							€	€€	€€€	€€€
Newtown Lough					*								*		€	€
North Bull Island					€	€					€€€			€€€	€€	€€€
Northwestern Irish Sea (HA 08)					€											€
Old Kilcullen S&G					*								*		€	€
Ouler (Lough)					€	€										€
Pollaphuca Reservoir	€					€			€		€					€€
Potters	€		€€		€	€€	€						€	€	€€	€€€
Taheenmore Bog					*								*		€	€
Ramor (Lough)					€	€			€				€€			€€
Rathnew	€		€		€	€							€		€€€€	€€€€
Realtage					*								*		€	€
Redbog					€	€										€
Rockabill					€	€										€
Rogerstown Estuary					€	€					€€		€€	€€	€€	€€€
Rush Urban					*								*		€	€
Rye Water Valley GWDTE					*		€						*		€	€

Water Management Unit / Water Body	Measures to Reduce Impact from Source															
	Abstractions	Agricultural Point and Diffuse Sources	Unlicensed Agricultural Point Sources	Chemical Fertiliser	Planning, Development and other sources	An Absence of sufficient data	Dangerous Substances	Forestry	To Protect High Status Waters	Manure Fertilisers	Intensive Landuse	Local Authority Licenced Discharges	Onsite Wastewater Treatment Systems	Urban Diffuse Pollution	Wastewater Treatment Plants	Indicative Total
Ryewater	€		€€		€	€€				€	€		€€€		€€	€€€€
Santry_Mayne_Sluice	€		€		€	€€€€					€		€€€	€€€	€€€€€	€€€€€€
Shanganagh	€€€				€€	€€					€€€€				€€€€€€	€€€€€€
Skerries Nth Urban					*								*		€	€
Skerries Sth Urban					*								*		€	€
Southwestern Irish Sea - Brittas Bay (HA 10)					€	€€	€				€€				€€€	€€€€
Southwestern Irish Sea - Killiney Bay (HA10)					€	€€	€		€		€€		€€	€€	€€€€	€€€€
Stonyford	€		€€		€	€				€			€€		€€€	€€€
Swords					*								*		€	€
Swords Urban					*								*		€	€
Swords_CL					*								*		€	€
Tay (Lough)					€	€		€		€						€
Tempelrainy	€		€		€	€							€	€	€€	€€
Tinnakilly_CL					*								*		€	€
Tolka	€		€€		€	€€€€				€	€		€€€€€€€	€€€	€€€€€€€	€€€€€€€
Tolka Estuary						€			€		€			€€	€€€€€€	€€€€€€
Trim				€€	*		€€						*		€€	€€
Trim Urban					*								*		€	€
Turlough Hill					€	€										€
Upper Lough Skeagh	€				€	€			€				€€			€€
Vartry	€€		€		€	€€	€	€					€	€	€€€€	€€€€
Vartry Reservoir Lower	€€					€			€		€					€€
Vartry Reservoir Upper	€€					€			€		€					€€
Walkinstown_CL					*								*		€	€
Wicklow Central (Avoca Mine)					*	*	€€€						*		€	€€€
Wicklow East					*								*		€€	€€

Water Management Unit / Water Body	Measures to Reduce Impact from Source															
	Abstractions	Agricultural Point and Diffuse Sources	Unlicensed Agricultural Point Sources	Chemical Fertiliser	Planning, Development and other sources	An Absence of sufficient data	Dangerous Substances	Forestry	To Protect High Status Waters	Manure Fertilisers	Intensive Landuse	Local Authority Licenced Discharges	Onsite Wastewater Treatment Systems	Urban Diffuse Pollution	Wastewater Treatment Plants	Indicative Total
Wicklow South					*								*		€€	€€
Wilkinstown					*		€						*		€€	€€
Indicative Total	€€€€	€	€€€€	€€	€€	€€€€€€	€€€€€	€€€	€€	€€	€€€€€	€€	€€€€€€€€	€€€€€€	€€€€€€€€	€€€€€€€€

*	This indicates that the chosen measure benefits both surface and groundwater and the costs have only been applied to surface water (rivers, lakes, transitional and coastal) to avoid double counting
€	€100,000
€€	€1,000,000
€€€	€5,000,000
€€€€	€15,000,000
€€€€€	€30,000,000
€€€€€€	€50,000,000
€€€€€€€	>€50,000,000

Table 3.3: Groundwater Bodies

ID	Groundwater Body
1	Dunshaughlin
2	Hill of Tara
3	Hynestown
4	Longwood
5	Moynalty
6	Moynalvy
7	Realtage
8	Swords_CL
9	Aleckafin_CL
10	Basketstown_LF
11	Tinnakilly_CL
12	Bettystown
13	Donore
14	Boyle_CL
15	Drogheda_LF
16	Naas_CL
17	Walkinstown_CL
18	Duleek
19	Ballyn S&G
20	Ballymore Eustace S&G
21	Blessington S&G
22	Kilrathmurry S&G
23	Lusk-Bog of the Ring
24	Navan Orebody 2
25	Navan Tailings
26	Naas_SG Urban
27	Naas Bedrock Nth Urban
28	Rush Urban
29	Newbridge Urban
30	Curragh S&G
31	Ashbourne Urban Nth
32	Ashbourne Urban Sth
33	Trim Urban
34	Lusk-East
35	Skerries Sth Urban
36	Skerries Nth Urban
37	Wilkinstown
38	Navan Sth Urban
39	Trim

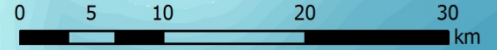
ID	Groundwater Body
40	Drogheda Urban
41	Swords
42	Wicklow South
43	Old Kilcullen S&G
44	Balbriggan
45	Balrothery
46	Castlekeeran S&G
47	Drogheda
48	Gormanstown S&G
49	Lough Lene
50	Lusk-West
51	Naas
52	Wicklow Central (Avoca Mine)
53	Arklow_Urban
54	Kilcoole S&G
55	Ashford S&G
56	Bray Urban
57	Greystones Urban
58	Enniskerry S&G
59	Balbriggan Urban
60	Kilcullen
61	Naas Bedrock Sth Urban
62	Navan Nth Urban
63	Navan Orebody
64	Swords Urban
65	Wicklow East
66	Fassaroe_LF
67	Dublin Urban
68	Rye Water Valley
69	Dublin
70	Raheenmore Bog
71	Newtown Lough
72	Mount Hevey Bog
73	Killyconny Bog (Cloghbally)
74	Athboy
75	Bailieborough
S&G	Sand& Gravel
CL	Contaminated Land
LF	Landfill

Location Map for River Water Management Units

North Western RBD

Neagh Bann RBD

Louth



Shannon RBD

Cavan

BLACKWATER NORTH

Meath

MATTOCK

BALTRAY Drogheda

MOSNEY

Oldcastle

Crossakeel

Kells

Navan

Dunleer

Westmeath

ATHBOY

NANNY

DELVIN

Balbriggan

Mullingar

DEEL

STONYFORD

BOYNE LOWER

Dunshaughlin

Garristown

LUSK

Kinnegad

BOYNE UPPER

Enfield

Maynooth

BROADMEADOW

DONABATE

Edenderry

BLACKWATER SOUTH

RYEWATER

Leixlip

TOLKA

SANTRY MAYNE SLUICE

Offaly

South Dublin

Dublin City

Dun Laoghaire

LIFFEY

DODDER

SHANANAGH

Dun Laoghaire Rathdown

Kildare

Naas

Enniskerry

Bray

DARGLE

Greystones

South Eastern RBD

Newbridge

Blessington

NEWCASTLE

VARTRY

Wicklow

RATHNEW

AVOCA

Wicklow Rathdrum

POTTERS

BALYTUNNY

TEMPELRAINY

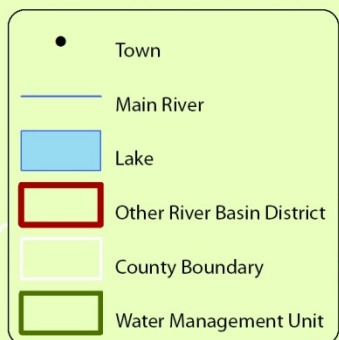
Arklow

KILMURRY

Laois

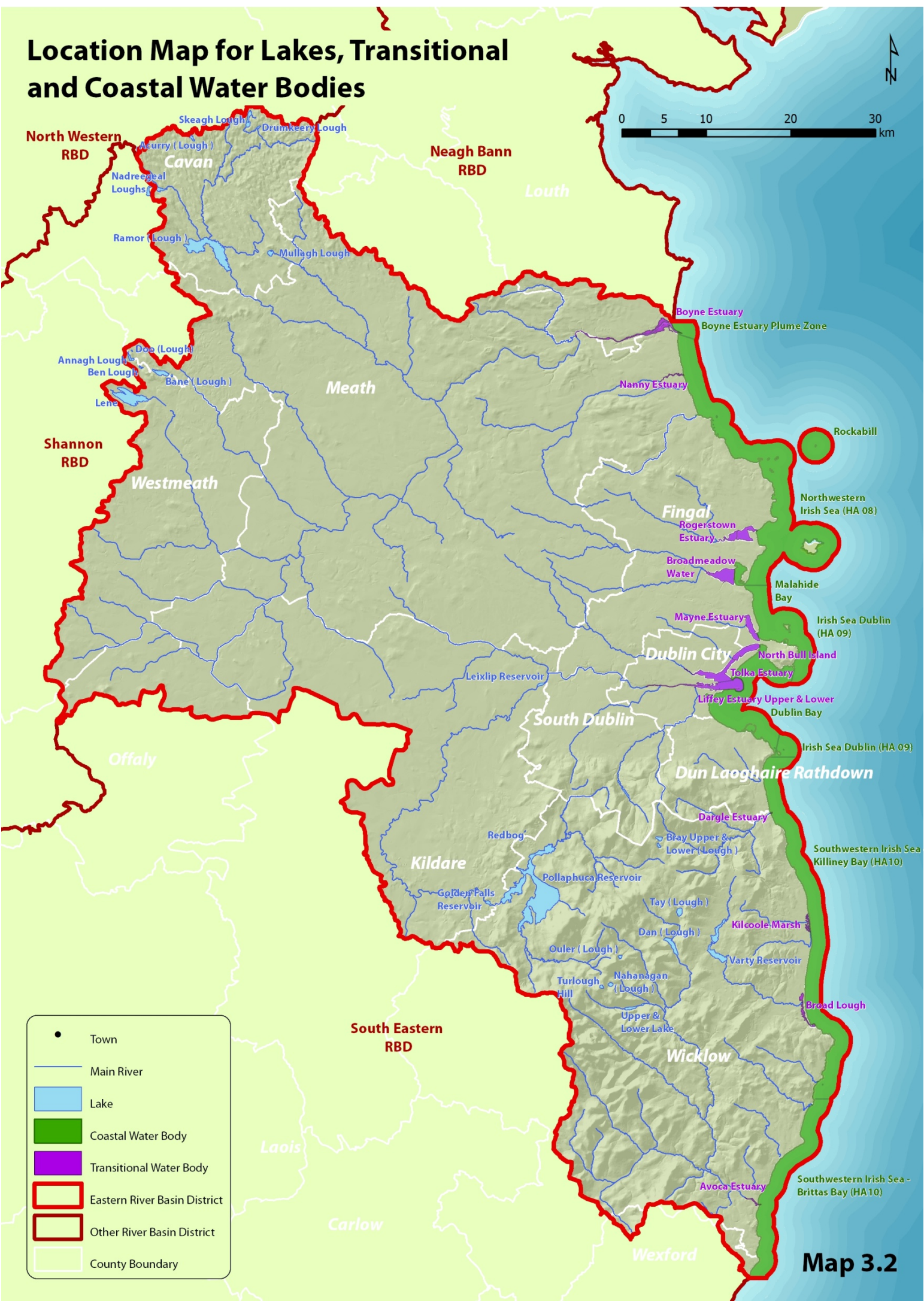
Carlow

Wexford



Map 3.1

Location Map for Lakes, Transitional and Coastal Water Bodies



- Town
- Main River
- Lake
- Coastal Water Body
- Transitional Water Body
- Eastern River Basin District
- Other River Basin District
- County Boundary

Map 3.2

Location of Groundwater Bodies



4. Programmes of Measures by Water Management Unit or Water Body

The following tables present the priority actions to address the major pressures affecting each water management unit or water body, the agencies responsible for their implementation and other bodies which have a critical role in their success. These tables also show the present status of each water body and their target dates to achieve good status. The priority actions represent those measures that are considered necessary to achieve good status and include both existing legislation and other measures. The tables are grouped by water body type:

- River Water Management Units;
- Lake Water Bodies;
- Transitional Water Bodies;
- Coastal Water Bodies; and
- Groundwater Bodies

The water body or water management units are presented alphabetically within those groups.

The percentage values in the pressures column refer to the percentage of the physicochemical impact on the river by each of six pressures (identified in the Water Matters report as key pressures nationally) and as recorded in the River Basin Management System (Section 8 of the River Basin Management Plan):

- wastewater point sources;
- landfills, quarries and mines;
- Agriculture;
- unsewered properties;
- forestry; and
- dangerous substances.

Hydrology and morphology are each a single pressure and so both are rated at 100%

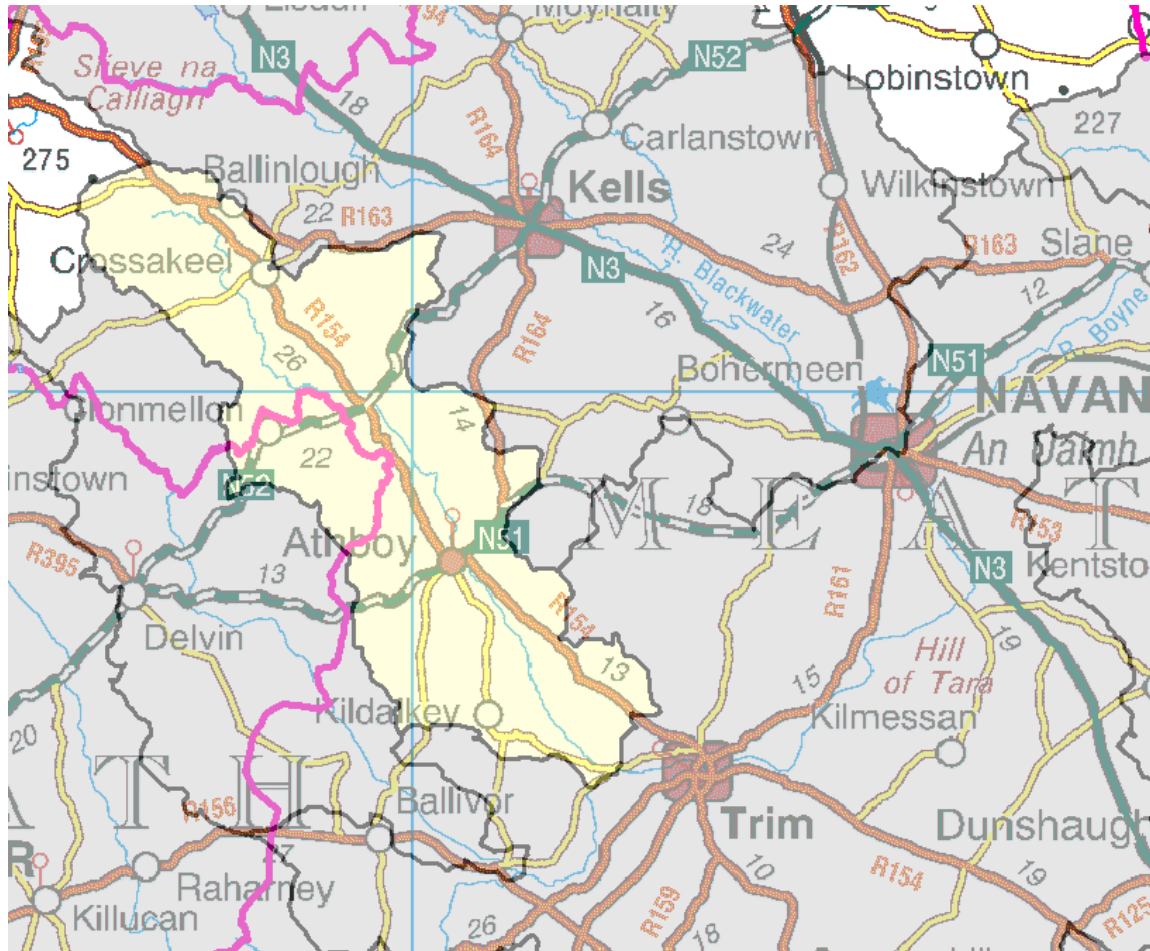




River Water Bodies



eastern
river basin district

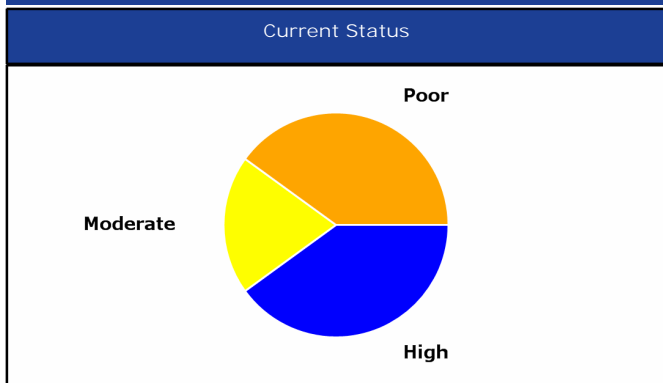
Athboy Water Management Unit



Symbols	Meaning
	County boundaries
	Water Management Unit of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Athboy Water Management Unit



Water Bodies in WMU	Current Status	Achieve Good Status by
AthboyTRIB_Scurlockstown1_Lower	High	2009
AthboyTRIB_Scurlockstown2_Upper	High	2009
AthboyTRIB_Clonmore	Moderate	2027
Athboy2_Upper	Poor	2021
Athboy1_Lower	Poor	2021
WMU to Achieve Good Status by 2027		

Wastewater Treatment Plants

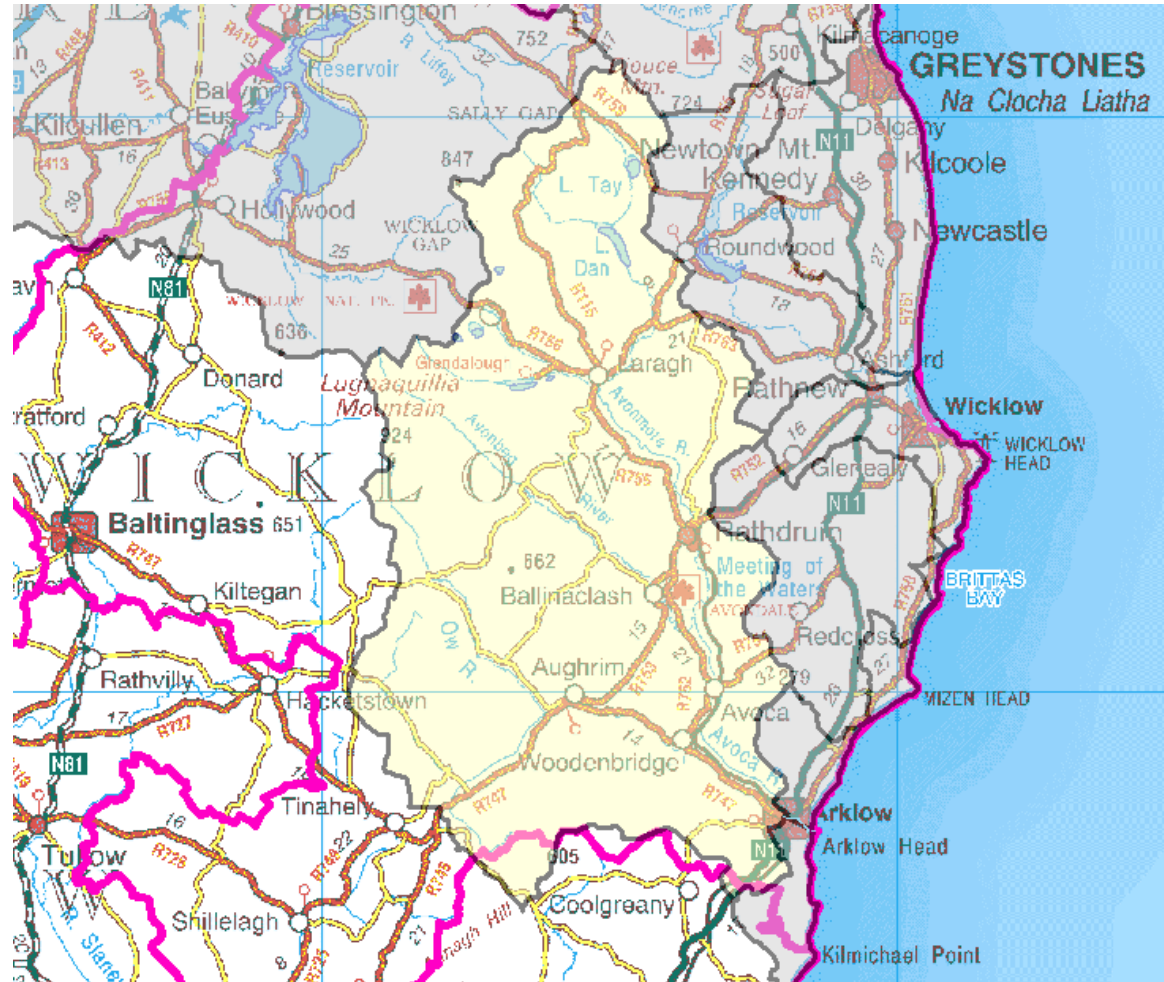
Athboy WwTW
Clonmellon WwTW
Crossakeel WwTW
Kildalkey WwTW



Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	50%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •DEHLG - Code of Good Practice and Guidelines on the use of Biosolids in Agriculture, 1999 •Further investigation/monitoring required •Restrict cattle access to rivers - Create cattle drinking points 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	10%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •PCS - Principles for Good Plant Protection Practice 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	40%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Emphasise linkages between Planning, Water Services, Transport and Environmental Sections within Local Authorities for planning purposes •Further investigation/monitoring required •Implement community digestors for alternative energy •Tertiary Treatment •Upgrade WWTW <2000 PE •Upgrade WWTW and Collecting Systems <2000 PE 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	10%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Enforce regulations on septic systems •Further investigation/monitoring required •LAs to adopt a common register of approved site assessors and common code of practice for maintaining register 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> •EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) •Foreshore Act (1933) •Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> •An Bord Pleanala, LA, CFB - Inspections •Courts - Enforcement •DEHLG, DEMNR, OPW - Grant Funding •EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency •OPW, EPA, DCMNR - Regulatory Agency •Owner - Funding •Owner, OPW - Implementor 	<ul style="list-style-type: none"> •Ensure compliance with OPW Environmental Drainage Maintenance Guidance Notes 	<ul style="list-style-type: none"> •Definition of GEP - EPA •Definition of needs - CFB, NPWS, OPW •Enforcement of new regulations/guidelines - Las •Funding for pilot measures implementation - DEHLG •Implementation sequencing - all owners •Implementation sequencing - LAs •LA resources - DEHLG •Legislation/guidance - DEHLG •Natural recovery - Nature •Planning - NPWS, LA, An Bord Plenala •Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater •Modernise Abstraction Legislation, including a system for licensing surface water abstractions 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

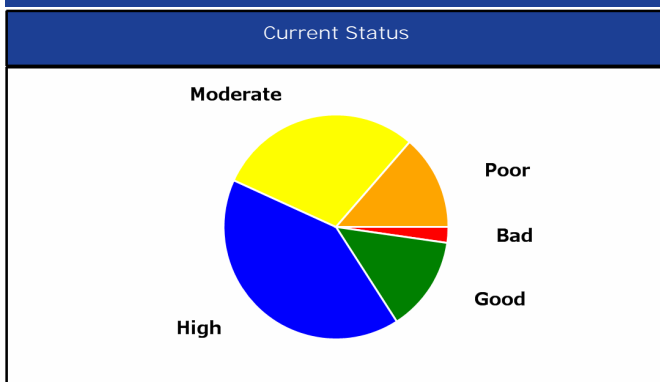
Avoca Water Management Unit



Symbols	Meaning
	County boundaries
	Water Management Unit of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Avoca Water Management Unit



Water Bodies in WMU	Current Status	Achieve Good Status by	Water Bodies in WMU	Current Status	Achieve Good Status by
Avoca2_Upper	Bad	2027	AvonbegTRIB_Ballinanty	High	2009
AvocaTRIB_Garryduff	Good	2009	AvonmoreTRIB_Annamoe	High	2009
Aughrim1	Good	2009	AvonmoreTRIB_Cloghoge	High	2009
AvonmoreTRIB_Trooperstown	Good	2009	AvonmoreTRIB_Ballinacorbeg	High	2009
AvocaTRIB_Avonmore1_Lower	Good	2009	AvocaTRIB_Ballyduff2_Upper	Moderate	2021
DerryWaterTRIB_Askanagap	Good	2009	AughrimTRIB_Ow1_Lower	Moderate	2015
DerryWaterTRIB_Tomanierin	Good	2009	AughrimTRIB_Ballycreen	Moderate	2015
AughrimTRIB_GoldMine2_Upper	High	2009	BallyduffTRIB_Kish	Moderate	2021
GoldmineTRIB_Clonwilliam	High	2009	DerryWaterTRIB_Coolalug	Moderate	2015
AughrimTRIB_GoldMine1_Lower	High	2009	AughrimTRIB_DerryWater1_Lower	Moderate	2015
AvonbegTRIB_Boravore	High	2009	AvocaTRIB_Ballyduff1_Lower	Moderate	2015
Avoca1_Lower	High	2009	AvocaTRIB_Furnace	Moderate	2027
AughrimTRIB_DerryWater2_Upper	High	2009	BallyduffTRIB_Pollahoney	Moderate	2021
AvonbegTRIB_Ballinacor	High	2009	AughrimTRIB_Ow3_Upper	Moderate	2015
AvocaTRIB_Kilmagig	High	2009	AvocaTRIB_Glendasan	Moderate	2027
Avonbeg2_Upper	High	2009	AvonbegTRIB_Carrighlineen	Moderate	2027
AvocaTRIB_Avonmore2_Mid	High	2009	Avonbeg1_Lower	Moderate	2027
AvocaTRIB_Avonmore3_Upper	High	2009	OwTRIB_Aghavannagh	Poor	2021
AvonmoreTRIB_Moneystown	High	2009	AvonmoreTRIB_Inchavore	Poor	2021
AvonmoreTRIB_Glenmacnass2_Upper	High	2009	AvocaTRIB_Glenealo1_Lower	Poor	2027
AvocaTRIB_Cherrymount	High	2009	AvonmoreTRIB_Glenmacnass1_Lower	Poor	2015
WMU to Achieve Good Status by 2027			AughrimTRIB_Ow2_Mid	Poor	2015

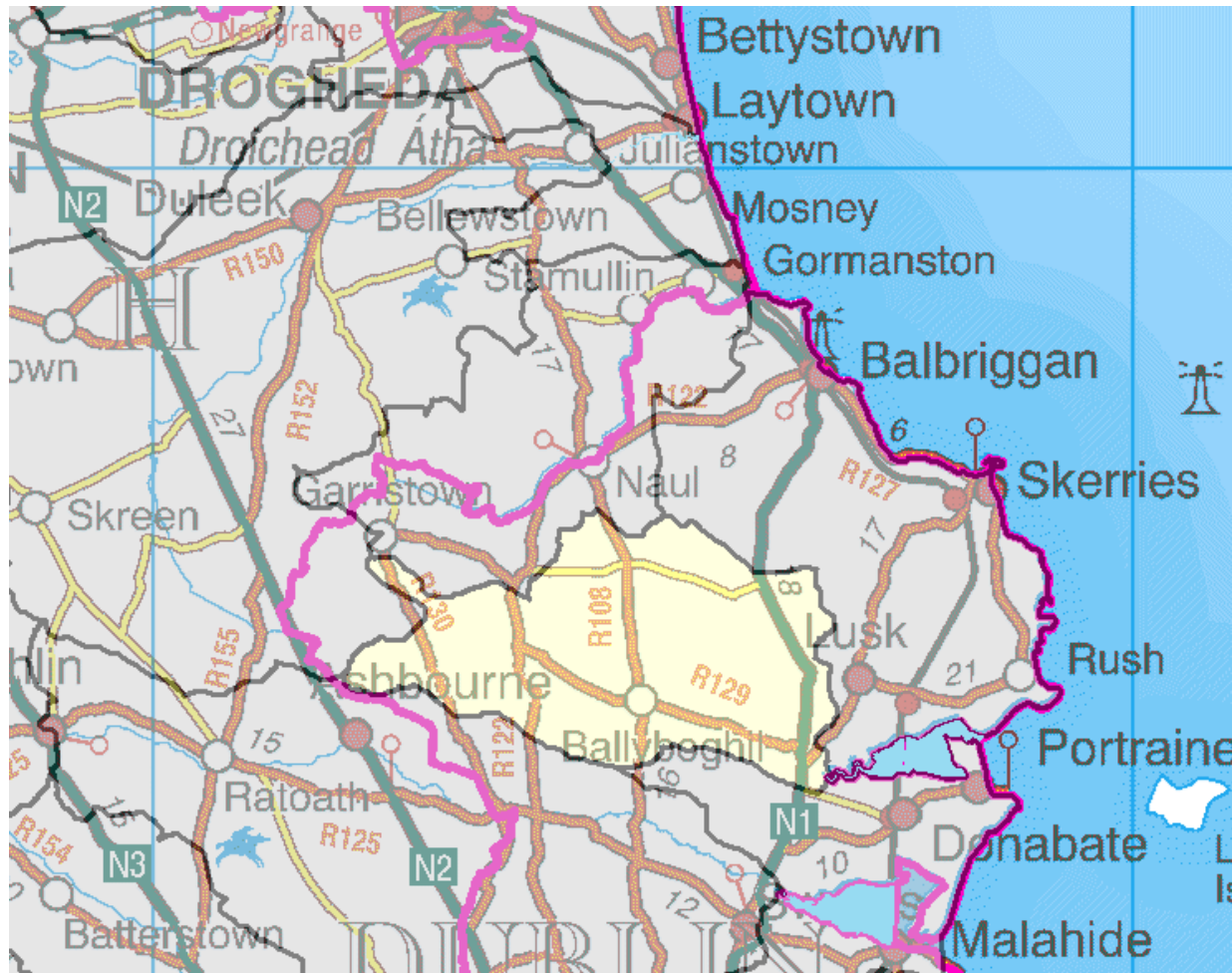
Wastewater Treatment Plants
Aughrim WwTW
Avoca WwTW
Ballinaclash WwTW
Glendalough WwTW
Kirakee WwTW
Laragh WwTW
Rathdrum WwTW



Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	20%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning Development Acts 2000 - 2006 •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Restrict cattle access to rivers - Create cattle drinking points 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Dangerous Substances (Physio- Chemical)	0%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EPA (Licensing) Regulations, 1994 & 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning Development Acts 2000 - 2006 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Planning and Development Regulations 2001 - 2007 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Water Quality Dangerous Substances Regulations, 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Diffuse Runoff (Urban) - Street Cleaning Programme •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio- Chemical)	10%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •Forestry Act 1946 and 1988 •Planning Development Acts 2000 - 2006 •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Implement Forestry and Water Quality Guidelines 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Landfills, etc. (Physio- Chemical)	40%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •Planning Development Acts 2000 - 2006 •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Mine discharge to be suitably treated 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies
Wastewater / Industrial Discharges (Physio- Chemical)	30%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EPA (Licensing) Regulations, 1994 & 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning Development Acts 2000 - 2006 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Collection System - Upgrades and rehabilitation •Diffuse Runoff (Urban) - Street Cleaning Programme •Emphasise linkages between Planning, Water Services, Transport and Environmental Sections within Local Authorities for planning purposes •Further investigation/monitoring required •Implement community digestors for alternative energy •Upgrade WWTW <2000 PE 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •Planning Development Acts 2000 - 2006 •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Carry out septic system inspections and upgrades •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> •EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) •Foreshore Act (1933) •Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> •An Bord Pleanala, LA, CFB - Inspections •Courts - Enforcement •DEHLG, DEMNR, OPW - Grant Funding •EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency •OPW, EPA, DCMNR - Regulatory Agency •Owner - Funding •Owner, OPW - Implementor 	<ul style="list-style-type: none"> •Facilitate fish migration •Further investigation/monitoring required •Introduce soft edges to inferior habitats •No Measure Required •Survey Banks/Coast 	<ul style="list-style-type: none"> •Definition of GEP - EPA •Definition of needs - CFB, NPWS, OPW •Enforcement of new regulations/guidelines - Las •Funding for pilot measures implementation - DEHLG •Implementation sequencing - all owners •Implementation sequencing - LAs •LA resources - DEHLG •Legislation/guidance - DEHLG •Natural recovery - Nature •Planning - NPWS, LA, An Bord Plenala •Public Awareness - DEHLG

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •Alter the availability of supply through conjunctive use or integrated water resources management, water reuse, implementing SUDS in developed areas, implementation of abstraction controls, use of additional storage or alternative water source •Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater •Develop and employ demand reduction measures •Develop Habitat Suitability Curves for coarse fish and other important aquatic organisms •Develop Habitat Suitability Curves for salmonids in Irish rivers •Further investigation/monitoring required •In flow regulated rivers, establish guidance on flow variations to support ecology •Investigate implementation of smaller water schemes to reduce demand on other resources •Modernise Abstraction Legislation, including a system for licensing surface water abstractions •Record daily abstraction rates 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

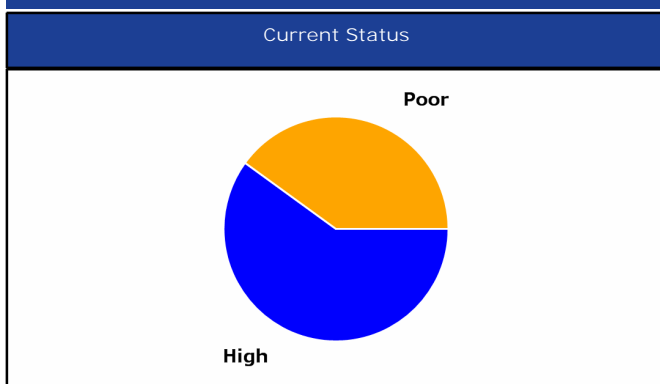
Ballyboghil Water Management Unit



Symbols	Meaning
	County boundaries
	Water Management Unit of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Ballyboghil Water Management Unit



Water Bodies in WMU	Current Status	Achieve Good Status by
Ballough2_Upper	High	2009
BalloughTRIB_Wimbletown1_Lower	High	2009
BalloughTRIB_Wimbletown2_Upper	High	2009
Ballough1_Lower	Poor	2021
Ballyboghil1	Poor	2021
WMU to Achieve Good Status by 2021		

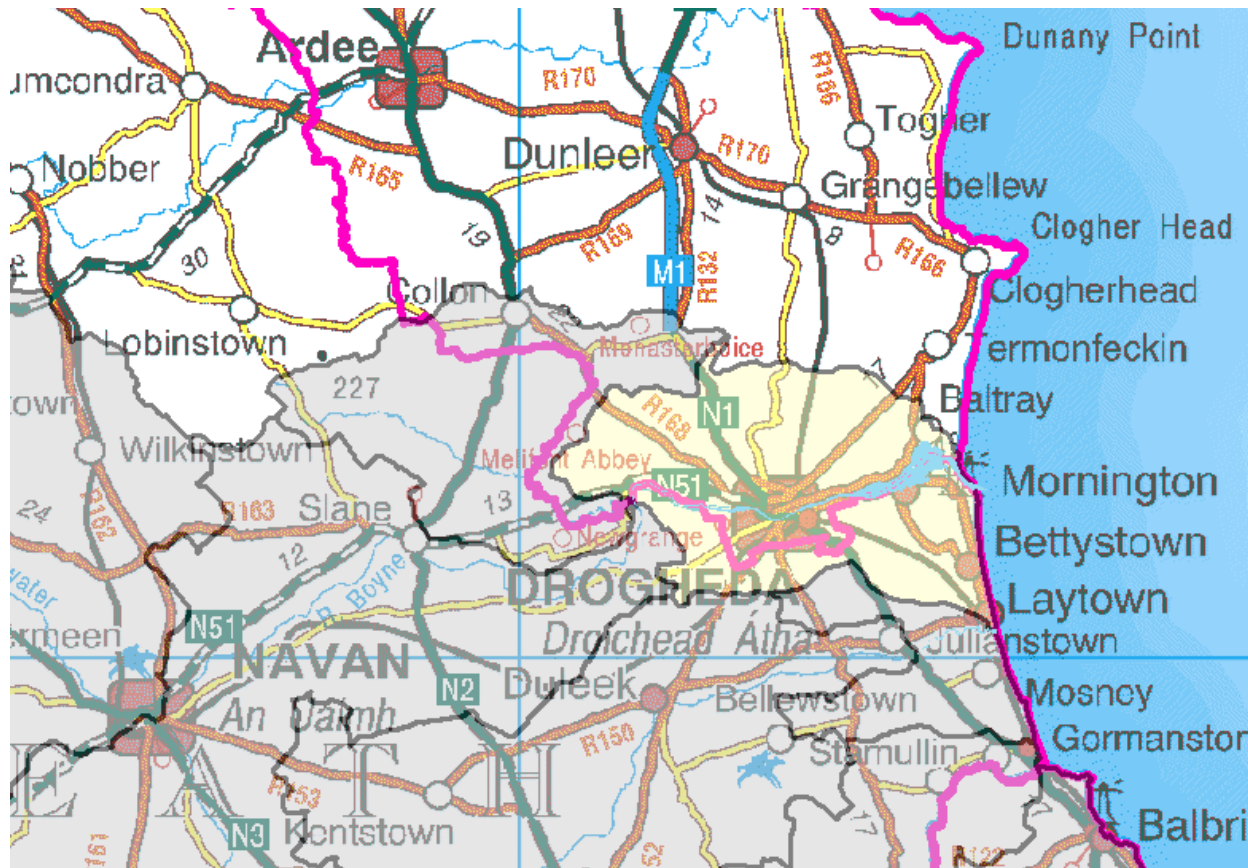
Wastewater Treatment Plants
Ballyboghil WwTW
Colecut WwTW
Turvey WwTW



Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	60%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Restrict cattle access to rivers - Create cattle drinking points 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Cross Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 		<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 		<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 		<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	20%	<ul style="list-style-type: none"> Local Government (Water Pollution) Act 1 of 1977 and amendments Urban Waste Water Treatment Regulations, 2001 - 2004 Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) Bathing Water Quality Regulations (S.I. 79 of 2008) Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) EPA (Licensing) Regulations, 1994 & 2004 EPA Waste (Licensing) Regulations, 2004 Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) Water Services Act 2007 	<ul style="list-style-type: none"> Courts - Enforcement DEHLG - Grant Funding (WSIP) DEHLG, EPA - Regulatory Agency EPA, LA - Inspections EPA, LA - Licensing Agency Plant owner - Funding Plant owner - Implementor 	<ul style="list-style-type: none"> Emphasise linkages between Planning, Water Services, Transport and Environmental Sections within Local Authorities for planning purposes Upgrade WWTW and Collecting Systems <2000 PE 	<ul style="list-style-type: none"> Contract approval - DEHLG WSIP Funding, Owner funding Funding for pilot implementation - DEHLG Inclusion on WSIP planning list - DEHLG Licensing as necessary - EPA Operational improvements - Owner, operator Owner implementation - Owner Planning controls - LAs, An Bord Plenala Preparation of Water Services Strategic Plans - Local Authority Regulatory approvals - DEHLG, EPA WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	20%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement EPA Guidance LA - Inspections LA Bye Laws, LA Planning - Licensing Agency Owner - Implementor 	<ul style="list-style-type: none"> Develop septic system management programme 	<ul style="list-style-type: none"> Enforcement of new regulations/guidelines - Las Funding of pilot measures - DEHLG Legislation/guidance - DEHLG/EPA Local Authority Resources - DEHLG Natural recovery - Nature Owner funding - Owner Programme implementation sequencing - LAs Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) Foreshore Act (1933) Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> An Bord Pleanala, LA, CFB - Inspections Courts - Enforcement DEHLG, DEMNR, OPW - Grant Funding EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency OPW, EPA, DCMNR - Regulatory Agency Owner - Funding Owner, OPW - Implementor 		<ul style="list-style-type: none"> Definition of GEP - EPA Definition of needs - CFB, NPWS, OPW Enforcement of new regulations/guidelines - Las Funding for pilot measures implementation - DEHLG Implementation sequencing - all owners Implementation sequencing - LAs LA resources - DEHLG Legislation/guidance - DEHLG Natural recovery - Nature Planning - NPWS, LA, An Bord Plenala Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> National Water Pricing Policy Framework (1998) Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) Water Supplies Act 1942 	<ul style="list-style-type: none"> Abstractor - Implementor An Bord Plenala, LA, DEMNR - Planning Courts - Enforcement DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) EPA, DEMNR - Regulatory Agency EPA, LA - Inspections EPA, LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater Modernise Abstraction Legislation, including a system for licensing surface water abstractions 	<ul style="list-style-type: none"> Enforcement - EPA Evaluation methodology - DEHLG, EPA Funding - DEHLG Natural recovery time - Nature New Regulations - DEHLG Sequencing of implementation - All listed Agencies

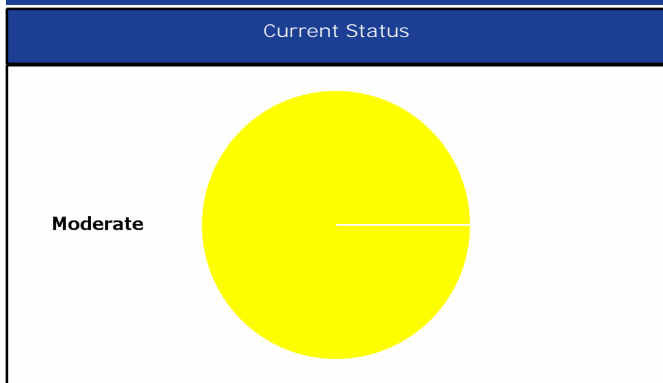
Baltray Water Management Unit



Symbols	Meaning
	County boundaries
	Water Management Unit of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Baltray Water Management Unit



Water Bodies in WMU	Current Status	Achieve Good Status by
Baltray1	Moderate	2021
Newtownstalaban1	Moderate	2021
WMU to Achieve Good Status by 2021		

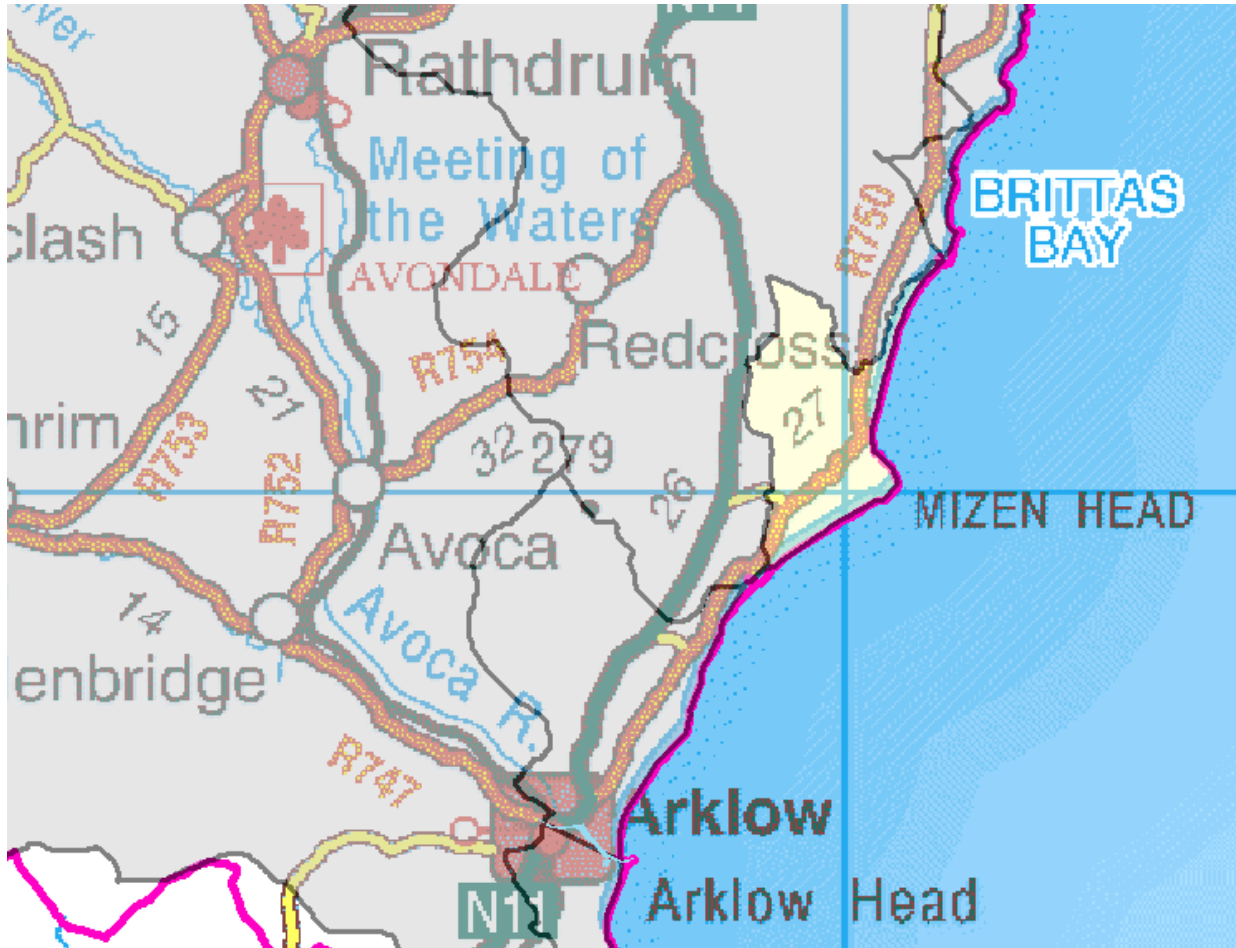
Wastewater Treatment Plants
None.



Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	80%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Emphasise linkages between Planning, Water Services, Transport and Environmental Sections within Local Authorities for planning purposes •Further investigation/monitoring required •Implement community digestors for alternative energy 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	20%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Carry out septic system inspections and upgrades •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> •EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) •Foreshore Act (1933) •Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> •An Bord Pleanala, LA, CFB - Inspections •Courts - Enforcement •DEHLG, DEMNR, OPW - Grant Funding •EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency •OPW, EPA, DCMNR - Regulatory Agency •Owner - Funding •Owner, OPW - Implementor 		<ul style="list-style-type: none"> •Definition of GEP - EPA •Definition of needs - CFB, NPWS, OPW •Enforcement of new regulations/guidelines - Las •Funding for pilot measures implementation - DEHLG •Implementation sequencing - all owners •Implementation sequencing - LAs •LA resources - DEHLG •Legislation/guidance - DEHLG •Natural recovery - Nature •Planning - NPWS, LA, An Bord Plenala •Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater •Modernise Abstraction Legislation, including a system for licensing surface water abstractions 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

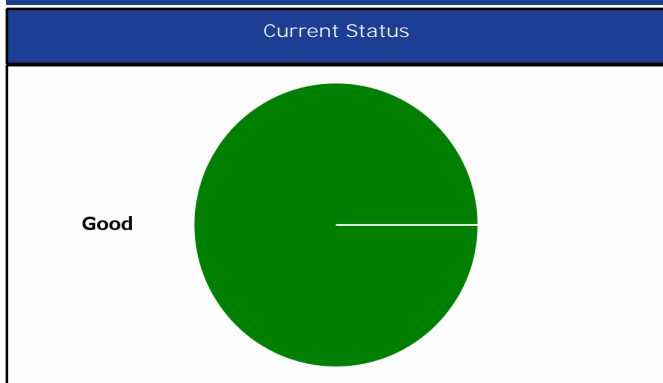
Balytunny Water Management Unit



Symbols	Meaning
	County boundaries
	Water Management Unit of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Balytunny Water Management Unit



Water Bodies in WMU	Current Status	Achieve Good Status by
Cornagower1	Good	2009
Balytunny1	Good	2009
WMU to Achieve Good Status by 2009		

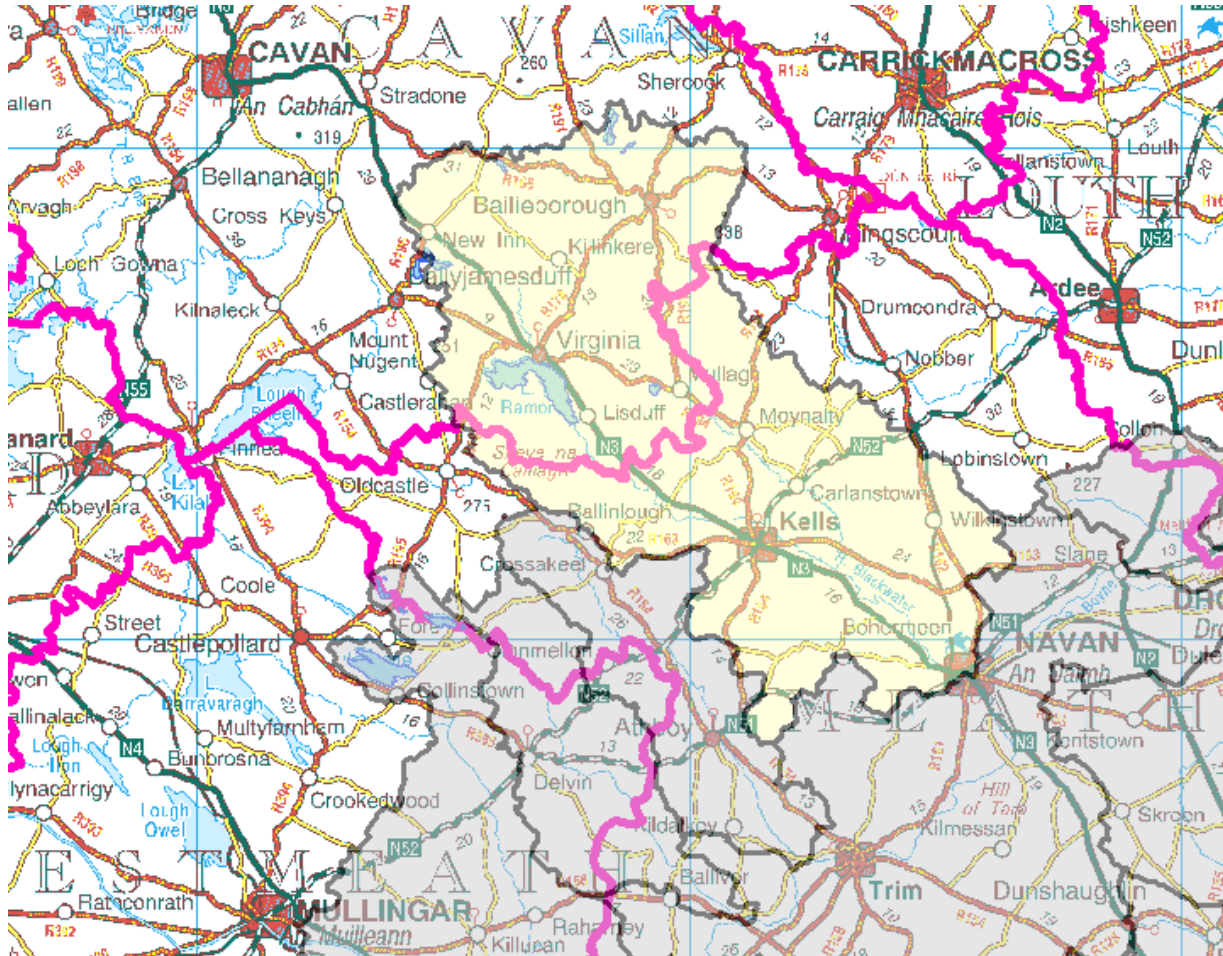
Wastewater Treatment Plants
None.



Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio-Chemical)	80%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Restrict cattle access to rivers - Create cattle drinking points 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> Local Government (Water Pollution) Act 1 of 1977 and amendments Bathing Water Quality Regulations (S.I. 79 of 2008) Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) EPA (Licensing) Regulations, 1994 & 2004 EPA Waste (Licensing) Regulations, 2004 Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) Urban Waste Water Treatment Regulations, 2001 - 2004 Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) Water Services Act 2007 	<ul style="list-style-type: none"> Courts - Enforcement DEHLG - Grant Funding (WSIP) DEHLG, EPA - Regulatory Agency EPA, LA - Inspections EPA, LA - Licensing Agency Plant owner - Funding Plant owner - Implementor 	<ul style="list-style-type: none"> Emphasise linkages between Planning, Water Services, Transport and Environmental Sections within Local Authorities for planning purposes Further investigation/monitoring required Implement community digestors for alternative energy 	<ul style="list-style-type: none"> Contract approval - DEHLG WSIP Funding, Owner funding Funding for pilot implementation - DEHLG Inclusion on WSIP planning list - DEHLG Licensing as necessary - EPA Operational improvements - Owner, operator Owner implementation - Owner Planning controls - LAs, An Bord Plenala Preparation of Water Services Strategic Plans - Local Authority Regulatory approvals - DEHLG, EPA WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	10%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement EPA Guidance LA - Inspections LA Bye Laws, LA Planning - Licensing Agency Owner - Implementor 	<ul style="list-style-type: none"> Carry out septic system inspections and upgrades Further investigation/monitoring required 	<ul style="list-style-type: none"> Enforcement of new regulations/guidelines - Las Funding of pilot measures - DEHLG Legislation/guidance - DEHLG/EPA Local Authority Resources - DEHLG Natural recovery - Nature Owner funding - Owner Programme implementation sequencing - LAs Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) Foreshore Act (1933) Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> An Bord Pleanala, LA, CFB - Inspections Courts - Enforcement DEHLG, DEMNR, OPW - Grant Funding EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency OPW, EPA, DCMNR - Regulatory Agency Owner - Funding Owner, OPW - Implementor 	<ul style="list-style-type: none"> Further investigation/monitoring required 	<ul style="list-style-type: none"> Definition of GEP - EPA Definition of needs - CFB, NPWS, OPW Enforcement of new regulations/guidelines - Las Funding for pilot measures implementation - DEHLG Implementation sequencing - all owners Implementation sequencing - LAs LA resources - DEHLG Legislation/guidance - DEHLG Natural recovery - Nature Planning - NPWS, LA, An Bord Plenala Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> National Water Pricing Policy Framework (1998) Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) Water Supplies Act 1942 	<ul style="list-style-type: none"> Abstractor - Implementor An Bord Plenala, LA, DEMNR - Planning Courts - Enforcement DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) EPA, DEMNR - Regulatory Agency EPA, LA - Inspections EPA, LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater Modernise Abstraction Legislation, including a system for licensing surface water abstractions 	<ul style="list-style-type: none"> Enforcement - EPA Evaluation methodology - DEHLG, EPA Funding - DEHLG Natural recovery time - Nature New Regulations - DEHLG Sequencing of implementation - All listed Agencies

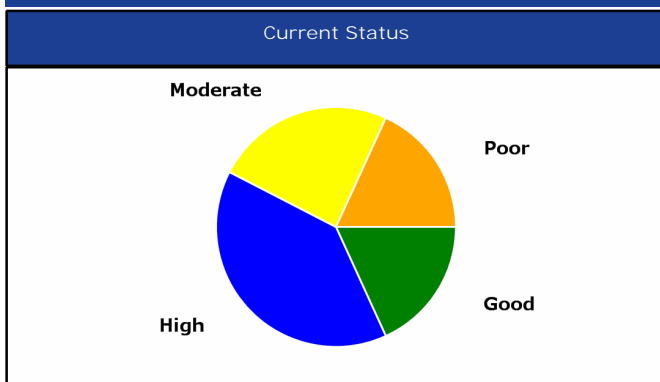
Blackwater North Water Management Unit



Symbols	Meaning
	County boundaries
	Water Management Unit of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Blackwater North Water Management Unit



Water Bodies in WMU	Current Status	Achieve Good Status by	Water Bodies in WMU	Current Status	Achieve Good Status by
Blackwater2_Mid	Good	2009	BlackwaterTRIB_Yellow2_Upper	High	2009
BlackwaterTRIB_NadreegeelLough2_Upper	Good	2009	MoynaltyTRIB_Clonarney	High	2009
BlackwaterTRIB_Lislea	Good	2009	BlackwaterTRIB_CrossWater2_Upper	High	2009
BlackwaterTRIB_Kilinkere	Good	2009	BlackwaterTRIB_CrossWater1_Lower	High	2009
BlackwaterTRIB_HurdlestownTRIB_Cortown2_Upper	Good	2009	NadreegeelLoughTRIB_Coppanagh	Moderate	2021
BlackwaterTRIB_ChapelLake	Good	2009	MoynaltyTRIB_Drakestown1_Lower	Moderate	2021
BlackwaterTRIB_Moynalty2_Upper	High	2009	BlackwaterTRIB_NadreegeelLough1_Lower	Moderate	2015
BlackwaterTRIB_HurdlestownTRIB_Nugents town2_Upper	High	2009	MoynaltyTRIB_Horath1_Lower	Moderate	2021
MoynaltyTRIB_Horath2_Upper	High	2009	BlackwaterTRIB_HurdlestownTRIB_Cortown1_Lower	Moderate	2021
MoynaltyTRIB_Barora	High	2009	BlackwaterTRIB_Hurdlestown	Moderate	2027
MoynaltyTRIB_Carlanstown	High	2009	MoynaltyTRIB_Drakestown2_Upper	Moderate	2021
MoynaltyTRIB_Loughan	High	2009	BlackwaterTRIB_HurdlestownTRIB_Nugents town1_Lower	Moderate	2021
MoynaltyTRIB_Corboggy	High	2009	Blackwater1_Lower	Poor	2021
YellowTRIB_Wilkinstown2_Upper	High	2009	BlackwaterTRIB_Yellow1_Lower	Poor	2021
YellowTRIB_Wilkinstown1_Lower	High	2009	Blackwater3_Upper	Poor	2015
WMU to Achieve Good Status by 2027			YellowTRIB_Gibstown	Poor	2027
			BlackwaterTRIB_Moynalty1_Lower	Poor	2021

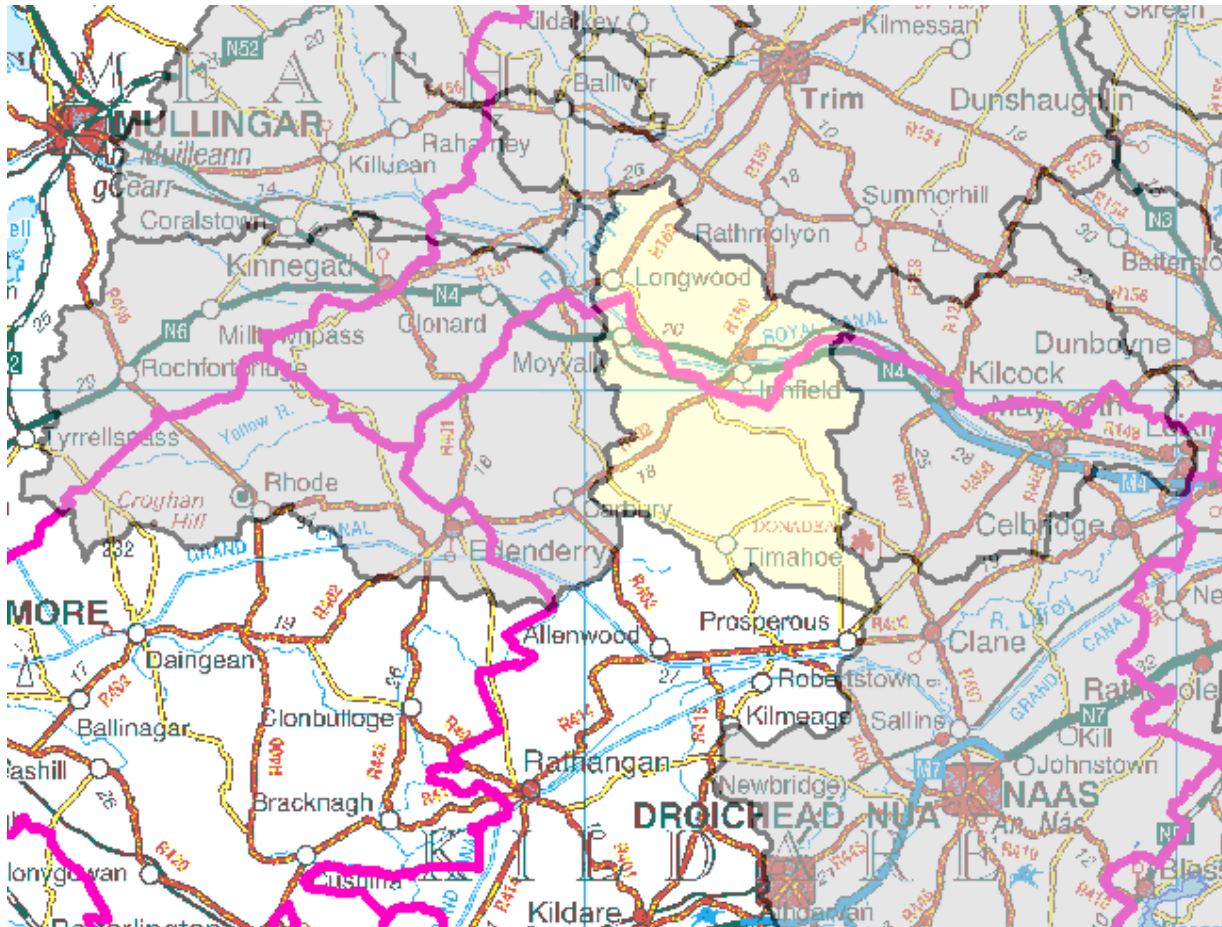
Wastewater Treatment Plants
Baillieborough WwTW
Carlanstown WwTW
IDA (Kells) WwTW
Kells WwTW
Moynalty WwTW
Mullagh WwTW



Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	60%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •DEHLG - Code of Good Practice and Guidelines on the use of Biosolids in Agriculture, 1999 •Further investigation/monitoring required •Implement upstream Programmes of Measures •Restrict cattle access to rivers - Create cattle drinking points 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Dangerous Substances (Physio- Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Diffuse Runoff (Urban) - Gullies Management •Diffuse Runoff (Urban) - Implement SUDS (Including Green Roofs Guidance) •Diffuse Runoff (Urban) - Street Cleaning Programme •Further investigation/monitoring required •Implement upstream Programmes of Measures •PCS - Principles for Good Plant Protection Practice 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio- Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Landfills, etc. (Physio- Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies
Wastewater / Industrial Discharges (Physio- Chemical)	30%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Assess CSO and Water Quality Impact from Urban Pressures •Diffuse Runoff (Urban) - Gullies Management •Diffuse Runoff (Urban) - Implement SUDS (Including Green Roofs Guidance) •Diffuse Runoff (Urban) - Street Cleaning Programme •Emphasise linkages between Planning, Water Services, Transport and Environmental Sections within Local Authorities for planning purposes •Further investigation/monitoring required •Implement community digestors for alternative energy •Implement upstream Programmes of Measures •Tertiary Treatment •Upgrade WWTW <2000 PE •Upgrade WWTW and Collecting Systems <2000 PE 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Pleanala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	10%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Enforce regulations on septic systems •Further investigation/monitoring required •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> •EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) •Foreshore Act (1933) •Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> •An Bord Pleanala, LA, CFB - Inspections •Courts - Enforcement •DEHLG, DEMNR, OPW - Grant Funding •EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency •OPW, EPA, DCMNR - Regulatory Agency •Owner - Funding •Owner, OPW - Implementor 	<ul style="list-style-type: none"> •Ensure compliance with OPW Environmental Drainage Maintenance Guidance Notes •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Definition of GEP - EPA •Definition of needs - CFB, NPWS, OPW •Enforcement of new regulations/guidelines - Las •Funding for pilot measures implementation - DEHLG •Implementation sequencing - all owners •Implementation sequencing - LAs •LA resources - DEHLG •Legislation/guidance - DEHLG •Natural recovery - Nature •Planning - NPWS, LA, An Bord Pleanala •Public Awareness - DEHLG

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •Alter the availability of supply through conjunctive use or integrated water resources management, water reuse, implementing SUDS in developed areas, implementation of abstraction controls, use of additional storage or alternative water source •Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater •Develop and employ demand reduction measures •Develop Habitat Suitability Curves for coarse fish and other important aquatic organisms •Develop Habitat Suitability Curves for salmonids in Irish rivers •In flow regulated rivers, establish guidance on flow variations to support ecology •Investigate implementation of smaller water schemes to reduce demand on other resources •Modernise Abstraction Legislation, including a system for licensing surface water abstractions •Record daily abstraction rates •Survey Banks/Coast 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

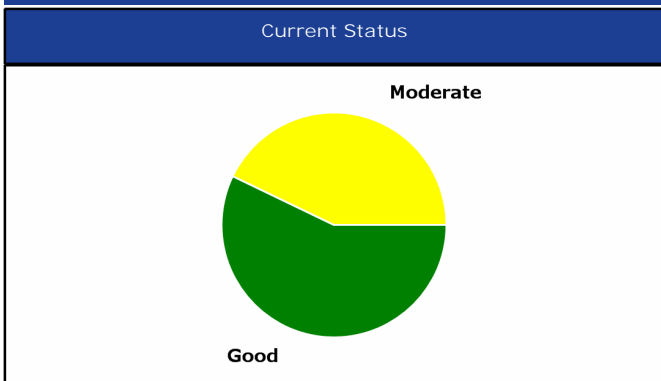
Blackwater South Water Management Unit



Symbols	Meaning
	County boundaries
	Water Management Unit of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Blackwater South Water Management Unit



Water Bodies in WMU	Current Status	Achieve Good Status by
BlackwaterTRIB_Deryvarroge	Good	2009
BlackwaterTRIB_Ballycorrion	Good	2009
BlackwaterTRIB_FearEnglish	Good	2009
Blackwater2_Upper	Good	2009
BlackwaterTRIB_Rathcore	Moderate	2027
Blackwater1_Lower	Moderate	2021
BlackwaterTRIB_Aleckafin	Moderate	2021
WMU to Achieve Good Status by 2027		

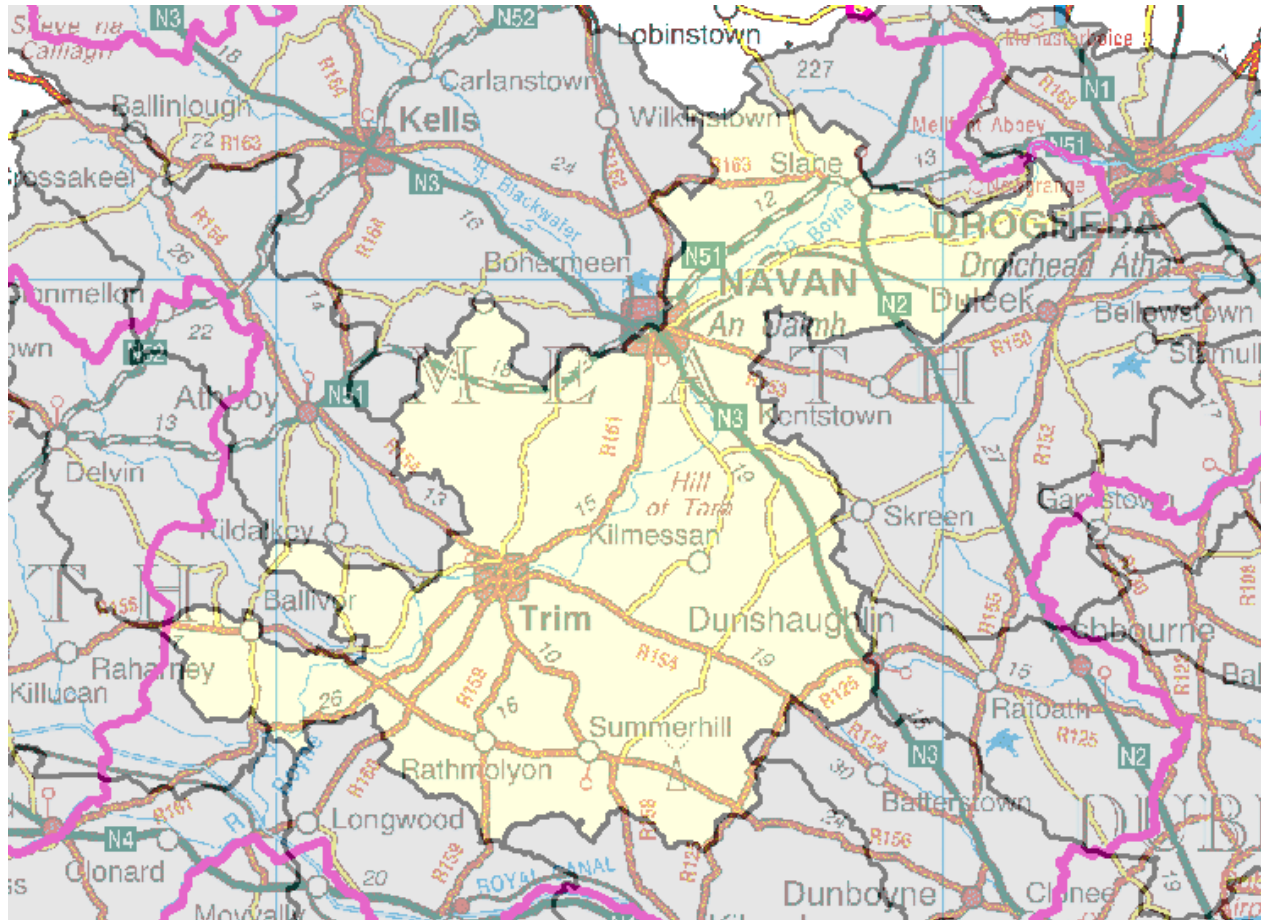
Wastewater Treatment Plants	
Enfield WwTW	Newtown WwTW
Johnstown Bridge WwTW	
Longwood WwTW	



Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	30%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Planning Development Acts 2000 - 2006 •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •DEHLG - Code of Good Practice and Guidelines on the use of Biosolids in Agriculture, 1999 •Further investigation/monitoring required •Implement upstream Programmes of Measures •Restrict cattle access to rivers - Create cattle drinking points 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Planning Development Acts 2000 - 2006 •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Implement upstream Programmes of Measures •PCS - Principles for Good Plant Protection Practice 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •Planning Development Acts 2000 - 2006 •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Evaluate impact of waters discharging from bog and peat lands •Further investigation/monitoring required •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •Planning Development Acts 2000 - 2006 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	60%	<ul style="list-style-type: none"> Local Government (Water Pollution) Act 1 of 1977 and amendments Planning Development Acts 2000 - 2006 Urban Waste Water Treatment Regulations, 2001 - 2004 Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) Bathing Water Quality Regulations (S.I. 79 of 2008) Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) EPA (Licensing) Regulations, 1994 & 2004 EPA Waste (Licensing) Regulations, 2004 Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) Planning and Development Regulations 2001 - 2007 Protection of Groundwater Regulations (S.I. 41 of 1999) Water Services Act 2007 	<ul style="list-style-type: none"> Courts - Enforcement DEHLG - Grant Funding (WSIP) DEHLG, EPA - Regulatory Agency EPA, LA - Inspections EPA, LA - Licensing Agency Plant owner - Funding Plant owner - Implementor 	<ul style="list-style-type: none"> Emphasise linkages between Planning, Water Services, Transport and Environmental Sections within Local Authorities for planning purposes Further investigation/monitoring required Implement community digestors for alternative energy Implement upstream Programmes of Measures Tertiary Treatment 	<ul style="list-style-type: none"> Contract approval - DEHLG WSIP Funding, Owner funding Funding for pilot implementation - DEHLG Inclusion on WSIP planning list - DEHLG Licensing as necessary - EPA Operational improvements - Owner, operator Owner implementation - Owner Planning controls - LAs, An Bord Plenala Preparation of Water Services Strategic Plans - Local Authority Regulatory approvals - DEHLG, EPA WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	10%	<ul style="list-style-type: none"> Planning Development Acts 2000 - 2006 Bathing Water Quality Regulations (S.I. 79 of 2008) EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) Planning and Development Regulations 2001 - 2007 Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement EPA Guidance LA - Inspections LA Bye Laws, LA Planning - Licensing Agency Owner - Implementor 	<ul style="list-style-type: none"> Enforce regulations on septic systems Further investigation/monitoring required Implement upstream Programmes of Measures Increase public awareness 	<ul style="list-style-type: none"> Enforcement of new regulations/guidelines - Las Funding of pilot measures - DEHLG Legislation/guidance - DEHLG/EPA Local Authority Resources - DEHLG Natural recovery - Nature Owner funding - Owner Programme implementation sequencing - LAs Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) Foreshore Act (1933) Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> An Bord Pleanala, LA, CFB - Inspections Courts - Enforcement DEHLG, DEMNR, OPW - Grant Funding EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency OPW, EPA, DCMNR - Regulatory Agency Owner - Funding Owner, OPW - Implementor 	<ul style="list-style-type: none"> Ensure compliance with OPW Environmental Drainage Maintenance Guidance Notes 	<ul style="list-style-type: none"> Definition of GEP - EPA Definition of needs - CFB, NPWS, OPW Enforcement of new regulations/guidelines - Las Funding for pilot measures implementation - DEHLG Implementation sequencing - all owners Implementation sequencing - LAs LA resources - DEHLG Legislation/guidance - DEHLG Natural recovery - Nature Planning - NPWS, LA, An Bord Plenala Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> National Water Pricing Policy Framework (1998) Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) Water Supplies Act 1942 	<ul style="list-style-type: none"> Abstractor - Implementor An Bord Plenala, LA, DEMNR - Planning Courts - Enforcement DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) EPA, DEMNR - Regulatory Agency EPA, LA - Inspections EPA, LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater Modernise Abstraction Legislation, including a system for licensing surface water abstractions 	<ul style="list-style-type: none"> Enforcement - EPA Evaluation methodology - DEHLG, EPA Funding - DEHLG Natural recovery time - Nature New Regulations - DEHLG Sequencing of implementation - All listed Agencies

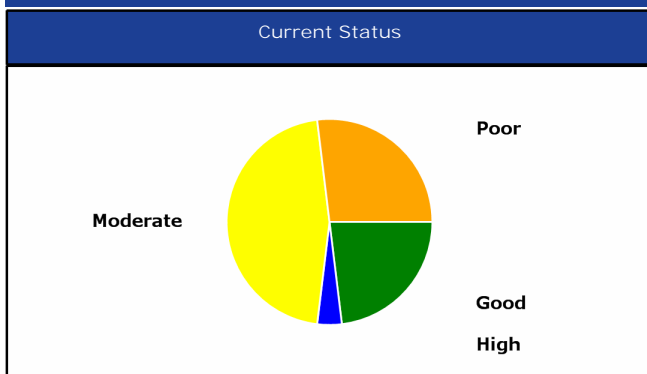
Boyne Lower Water Management Unit



Symbols	Meaning
	County boundaries
	Water Management Unit of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Boyne Lower Water Management Unit



Water Bodies in WMU	Current Status	Achieve Good Status by	Water Bodies in WMU	Current Status	Achieve Good Status by
BoyneTRIB_Woodtown2_Upper	Good	2009	BoyneTRIB_Clady2_Mid	Moderate	2021
BoyneTRIB_Kilcam	Good	2009	BoyneTRIB_Clady1_Lower	Moderate	2021
BoyneTRIB_TrommanStream1_Lower	Good	2009	Ballivor1	Moderate	2027
CladyTRIB_Iskaroon1_Lower	Good	2009	BoyneTRIB_Abelstown	Moderate	2021
KnightsbrookTRIB_Cloneymeach	Good	2009	BoyneTRIB_Rathdrinagh2_Upper	Moderate	2027
BoyneTRIB_Woodtown1_Lower	Good	2009	CladyTRIB_Iskaroon2_Upper	Moderate	2021
BoyneTRIB_TrommanStream2_Upper	High	2009	Boycetown1	Moderate	2015
BoyneTRIB_Grange	Moderate	2027	BoyneTRIB_Stackallan	Poor	2027
BoyneTRIB_Clady3_Upper	Moderate	2021	Knightsbrook2_Upper	Poor	2027
Skane1_Lower	Moderate	2021	SkaneTRIB_Lambertstown	Poor	2027
BoyneTRIB_Rathdrinagh1_Lower	Moderate	2027	BoyneTRIB_Bective	Poor	2027
Boyne1_Lower	Moderate	2021	SkaneTRIB_Philpotstown	Poor	2027
WMU to Achieve Good Status by 2027			Skane2_Upper	Poor	2021

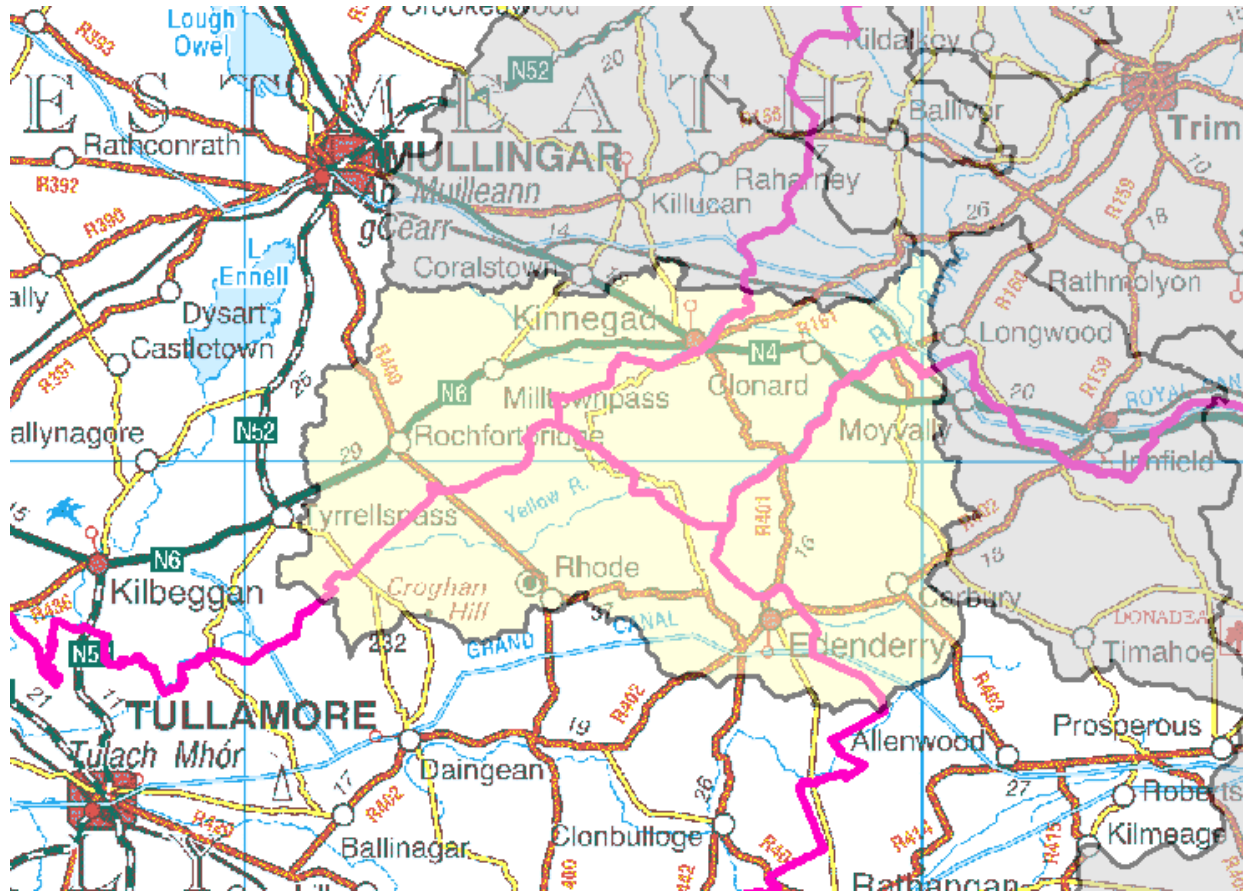
Wastewater Treatment Plants
Ballivor WwTW
Donore WwTW
Dunderry WwTW
Kilmessan WwTW
Navan WwTW
Slane WwTW
Summerhill WwTW
Trim WwTW



Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio-Chemical)	60%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •DEHLG - Code of Good Practice and Guidelines on the use of Biosolids in Agriculture, 1999 •Develop riparian buffers •Further investigation/monitoring required •Restrict cattle access to rivers - Create cattle drinking points 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Urban Waste Water Treatment Regulations, 2001 - 2004 •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •PCS - Principles for Good Plant Protection Practice 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Develop riparian buffers •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	20%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Urban Waste Water Treatment Regulations, 2001 - 2004 •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Emphasise linkages between Planning, Water Services, Transport and Environmental Sections within Local Authorities for planning purposes •Further investigation/monitoring required •Implement community digestors for alternative energy •Upgrade WWTW <2000 PE •Upgrade WWTW and Collecting Systems <2000 PE 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	10%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Enforce regulations on septic systems •Further investigation/monitoring required •LAs to adopt a common register of approved site assessors and common code of practice for maintaining register •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections •OSWTS risk matrices to be integrated into Development Plans and Local Area Plans 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> •EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) •Foreshore Act (1933) •Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> •An Bord Pleanala, LA, CFB - Inspections •Courts - Enforcement •DEHLG, DEMNR, OPW - Grant Funding •EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency •OPW, EPA, DCMNR - Regulatory Agency •Owner - Funding •Owner, OPW - Implementor 		<ul style="list-style-type: none"> •Definition of GEP - EPA •Definition of needs - CFB, NPWS, OPW •Enforcement of new regulations/guidelines - Las •Funding for pilot measures implementation - DEHLG •Implementation sequencing - all owners •Implementation sequencing - LAs •LA resources - DEHLG •Legislation/guidance - DEHLG •Natural recovery - Nature •Planning - NPWS, LA, An Bord Pleanala •Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Pleanala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater •Modernise Abstraction Legislation, including a system for licensing surface water abstractions 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

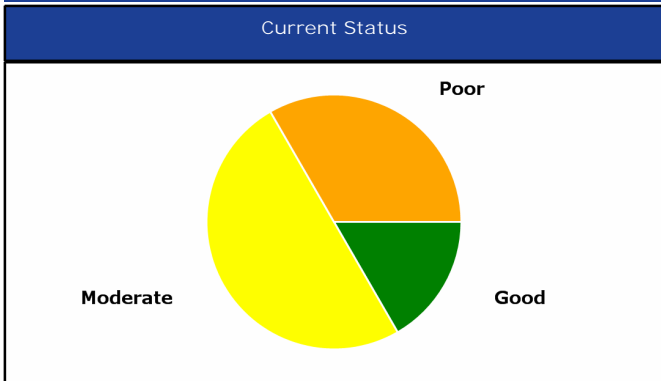
Boyne Upper Water Management Unit



Symbols	Meaning
	County boundaries
	Water Management Unit of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Boyne Upper Water Management Unit



Water Bodies in WMU	Current Status	Achieve Good Status by	Water Bodies in WMU	Current Status	Achieve Good Status by
BoyneTRIB_Ballycowan	Good	2009	BoyneTRIB_Mountwilson	Moderate	2021
Boyne3	Good	2009	BoyneTRIB_Derrycoris	Moderate	2021
Yellow2_Upper	Good	2009	BoyneTRIB_Edenderry	Moderate	2021
CastleJordanTRIB_Milltownpass	Moderate	2015	Boyne4_Upper	Moderate	2015
Yellow1_Lower	Moderate	2021	YellowTRIB_CastleJordan	Poor	2027
Boyne2	Moderate	2021	GlashTRIB_Garrisker	Poor	2027
Kinnegad1_Lower	Moderate	2027	KinnegadTRIB_Kilwarden	Poor	2027
Kinnegad2_Upper	Moderate	2021	BoyneTRIB_Glash3_Upper	Poor	2027
WMU to Achieve Good Status by 2027			BoyneTRIB_Glash2_Mid	Poor	2027

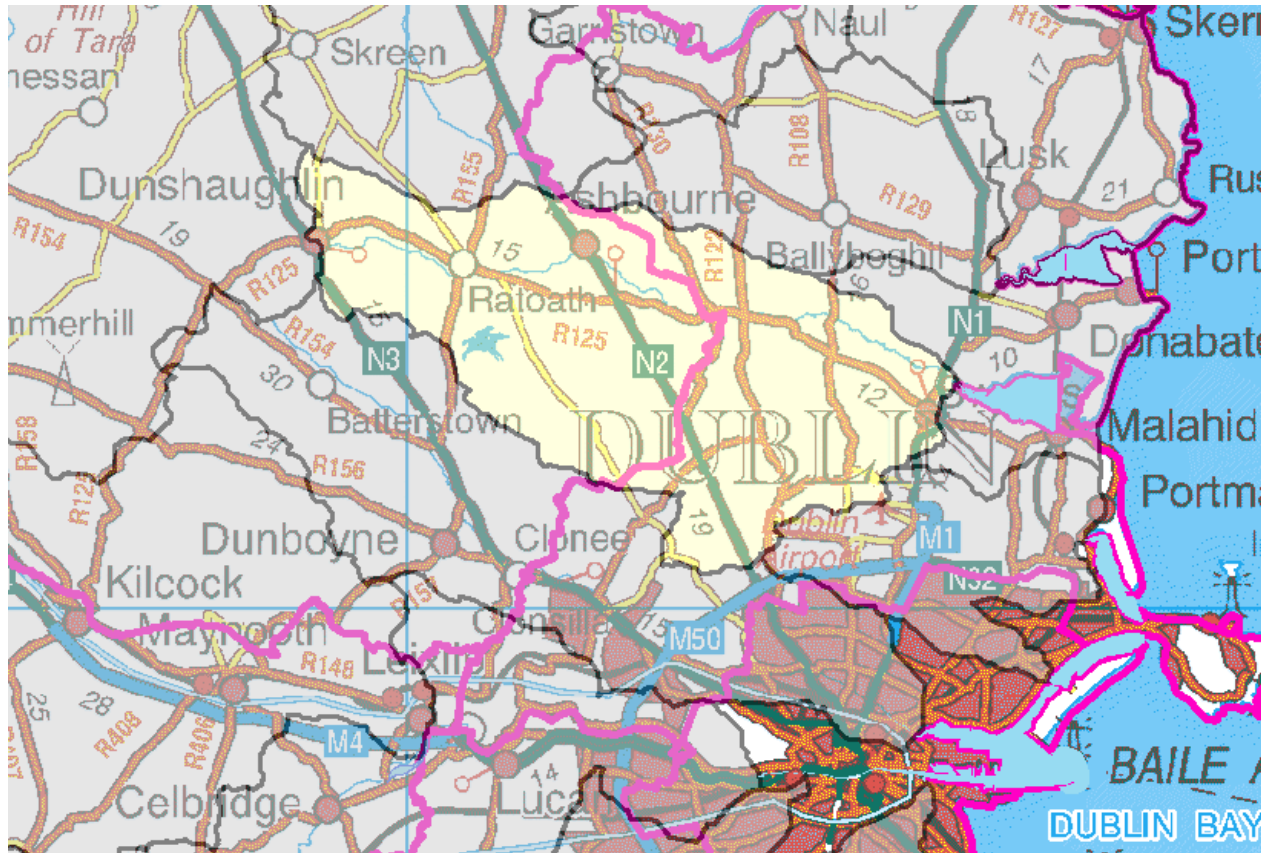
Wastewater Treatment Plants
Clogherinko WwTW
Clonard WwTW
Clonuff WwTW
Edenderry WwTW
Kinnegad WwTW
Milltownpass WwTW
Rhode WwTW
Rochfortbridge WwTW



Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio-Chemical)	40%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •DEHLG - Code of Good Practice and Guidelines on the use of Biosolids in Agriculture, 1999 •Further investigation/monitoring required •Implement upstream Programmes of Measures •Restrict cattle access to rivers - Create cattle drinking points 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	10%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Protection of Groundwater Regulations (S.I. 41 of 1999) •Water Quality Dangerous Substances Regulations, 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Implement upstream Programmes of Measures •PCS - Principles for Good Plant Protection Practice 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Implement upstream Programmes of Measures •Mitigate impact of quarry activities 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	30%	<ul style="list-style-type: none"> Local Government (Water Pollution) Act 1 of 1977 and amendments Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Urban Waste Water Treatment Regulations, 2001 - 2004 Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) Water Services Act 2007 Bathing Water Quality Regulations (S.I. 79 of 2008) Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) EPA (Licensing) Regulations, 1994 & 2004 EPA Waste (Licensing) Regulations, 2004 Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement DEHLG - Grant Funding (WSIP) DEHLG, EPA - Regulatory Agency EPA, LA - Inspections EPA, LA - Licensing Agency Plant owner - Funding Plant owner - Implementor 	<ul style="list-style-type: none"> Emphasise linkages between Planning, Water Services, Transport and Environmental Sections within Local Authorities for planning purposes Further investigation/monitoring required Implement community digestors for alternative energy Implement upstream Programmes of Measures Upgrade WWTW and Collecting Systems <2000 PE 	<ul style="list-style-type: none"> Contract approval - DEHLG WSIP Funding, Owner funding Funding for pilot implementation - DEHLG Inclusion on WSIP planning list - DEHLG Licensing as necessary - EPA Operational improvements - Owner, operator Owner implementation - Owner Planning controls - LAs, An Bord Plenala Preparation of Water Services Strategic Plans - Local Authority Regulatory approvals - DEHLG, EPA WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	20%	<ul style="list-style-type: none"> Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Bathing Water Quality Regulations (S.I. 79 of 2008) EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement EPA Guidance LA - Inspections LA Bye Laws, LA Planning - Licensing Agency Owner - Implementor 	<ul style="list-style-type: none"> Enforce regulations on septic systems Further investigation/monitoring required Implement upstream Programmes of Measures Increase public awareness 	<ul style="list-style-type: none"> Enforcement of new regulations/guidelines - Las Funding of pilot measures - DEHLG Legislation/guidance - DEHLG/EPA Local Authority Resources - DEHLG Natural recovery - Nature Owner funding - Owner Programme implementation sequencing - LAs Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> Planning and Development Regulations 2001 - 2007 EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) Foreshore Act (1933) 	<ul style="list-style-type: none"> An Bord Pleanala, LA, CFB - Inspections Courts - Enforcement DEHLG, DEMNR, OPW - Grant Funding EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency OPW, EPA, DCMNR - Regulatory Agency Owner - Funding Owner, OPW - Implementor 	<ul style="list-style-type: none"> Ensure compliance with OPW Environmental Drainage Maintenance Guidance Notes No Measure Required OPW - Environmental River Enhancement Programme 2008 -2012 	<ul style="list-style-type: none"> Definition of GEP - EPA Definition of needs - CFB, NPWS, OPW Enforcement of new regulations/guidelines - Las Funding for pilot measures implementation - DEHLG Implementation sequencing - all owners Implementation sequencing - LAs LA resources - DEHLG Legislation/guidance - DEHLG Natural recovery - Nature Planning - NPWS, LA, An Bord Plenala Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> National Water Pricing Policy Framework (1998) Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) Water Supplies Act 1942 	<ul style="list-style-type: none"> Abstractor - Implementor An Bord Plenala, LA, DEMNR - Planning Courts - Enforcement DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) EPA, DEMNR - Regulatory Agency EPA, LA - Inspections EPA, LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater Modernise Abstraction Legislation, including a system for licensing surface water abstractions No Measure Needed 	<ul style="list-style-type: none"> Enforcement - EPA Evaluation methodology - DEHLG, EPA Funding - DEHLG Natural recovery time - Nature New Regulations - DEHLG Sequencing of implementation - All listed Agencies

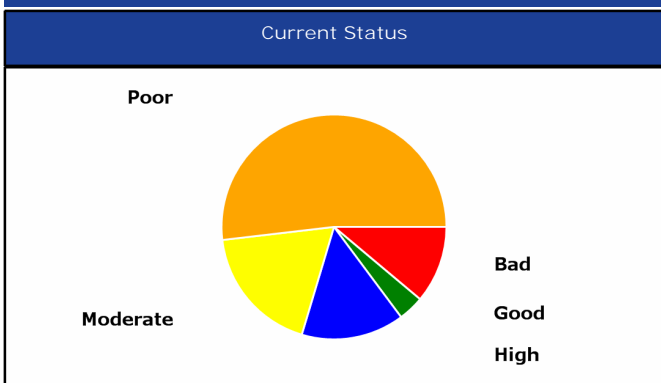
Broadmeadow Water Management Unit



Symbols	Meaning
	County boundaries
	Water Management Unit of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Broadmeadow Water Management Unit



Water Bodies in WMU	Current Status	Achieve Good Status by	Water Bodies in WMU	Current Status	Achieve Good Status by
BroadmeadowTRIB_DunshaughlinStream	Bad	2021	BroadmeadowTRIB_Mooretown	Moderate	2027
Broadmeadow4_Upper	Bad	2021	BroadmeadowTRIB_Coolquoy	Poor	2027
BroadmeadowTRIB_Ward2_Mid	Bad	2027	BroadmeadowTRIB_Kilsallaghan	Poor	2027
BroadmeadowTRIB_Fairyhouse_Upper	Good	2009	BroadmeadowTRIB_Fairyhouse1_Lower	Poor	2021
Broadmeadow1_Lower	High	2009	BroadmeadowTRIB_Roganstown	Poor	2027
WardTRIB_Ballystrahan1_Lower	High	2009	Broadmeadow2	Poor	2027
WardTRIB_Ballystrahan2_Upper	High	2009	BroadmeadowTRIB_DunWater2_Upper	Poor	2027
WardTRIB_BallystrahanTRIB_Luttrells	High	2009	DunWaterTRIB_Maaspool	Poor	2027
BroadmeadowTRIB_Saucerstown	Moderate	2027	WardTRIB_Gallanstown	Poor	2027
BroadmeadowTRIB_KilsallaghanTRIB_Balcultry	Moderate	2027	BroadmeadowTRIB_Ward3_Upper	Poor	2021
BroadmeadowTRIB_KilsallaghanTRIB_Corrs town	Moderate	2027	DunWaterTRIB_Thornton	Poor	2027
WardTRIB_Bishopswood	Moderate	2027	Broadmeadow3	Poor	2021
			BroadmeadowTRIB_DunWater1_Lower	Poor	2027
			BroadmeadowTRIB_Ward1_Lower	Poor	2027

WMU to Achieve Good Status by 2027

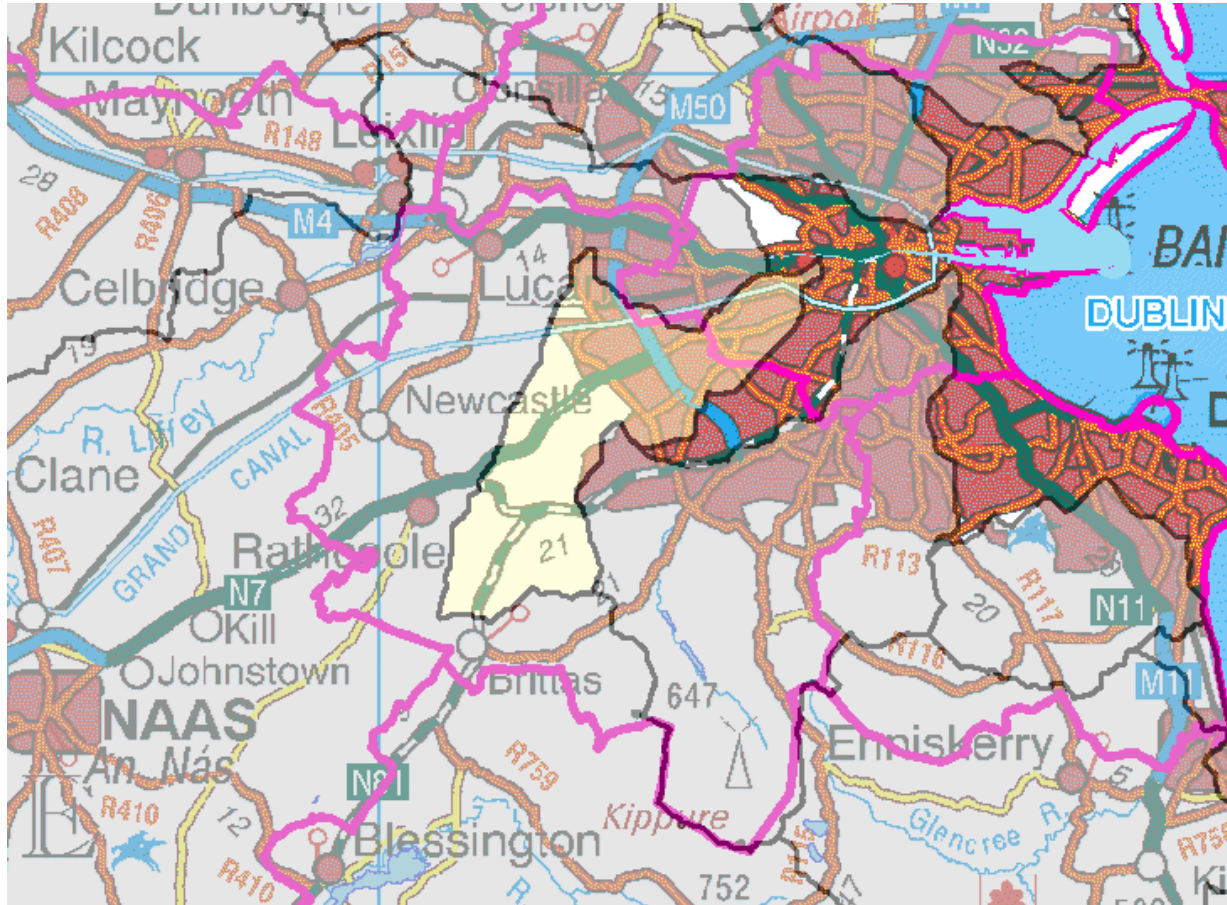
Wastewater Treatment Plants
Dunshaughlin WwTW
Rowelstown WwTW
Toberburr WwTW



Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio-Chemical)	50%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •DEHLG - Code of Good Practice and Guidelines on the use of Biosolids in Agriculture, 1999 •Develop riparian buffers •Further investigation/monitoring required •Restrict cattle access to rivers - Create cattle drinking points 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Cross Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •PCS - Principles for Good Plant Protection Practice 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Develop riparian buffers •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	20%	<ul style="list-style-type: none"> Local Government (Water Pollution) Act 1 of 1977 and amendments Urban Waste Water Treatment Regulations, 2001 - 2004 Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) Bathing Water Quality Regulations (S.I. 79 of 2008) Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) EPA (Licensing) Regulations, 1994 & 2004 EPA Waste (Licensing) Regulations, 2004 Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) Water Services Act 2007 	<ul style="list-style-type: none"> Courts - Enforcement DEHLG - Grant Funding (WSIP) DEHLG, EPA - Regulatory Agency EPA, LA - Inspections EPA, LA - Licensing Agency Plant owner - Funding Plant owner - Implementor 	<ul style="list-style-type: none"> Emphasise linkages between Planning, Water Services, Transport and Environmental Sections within Local Authorities for planning purposes Further investigation/monitoring required Implement community digestors for alternative energy 	<ul style="list-style-type: none"> Contract approval - DEHLG WSIP Funding, Owner funding Funding for pilot implementation - DEHLG Inclusion on WSIP planning list - DEHLG Licensing as necessary - EPA Operational improvements - Owner, operator Owner implementation - Owner Planning controls - LAs, An Bord Plenala Preparation of Water Services Strategic Plans - Local Authority Regulatory approvals - DEHLG, EPA WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	30%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement EPA Guidance LA - Inspections LA Bye Laws, LA Planning - Licensing Agency Owner - Implementor 	<ul style="list-style-type: none"> Develop septic system management programme Enforce regulations on septic systems Further investigation/monitoring required LAs to adopt a common register of approved site assessors and common code of practice for maintaining register OSWTS risk matrices to be integrated into Development Plans and Local Area Plans 	<ul style="list-style-type: none"> Enforcement of new regulations/guidelines - Las Funding of pilot measures - DEHLG Legislation/guidance - DEHLG/EPA Local Authority Resources - DEHLG Natural recovery - Nature Owner funding - Owner Programme implementation sequencing - LAs Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) Foreshore Act (1933) Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> An Bord Pleanala, LA, CFB - Inspections Courts - Enforcement DEHLG, DEMNR, OPW - Grant Funding EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency OPW, EPA, DCMNR - Regulatory Agency Owner - Funding Owner, OPW - Implementor 	<ul style="list-style-type: none"> Ensure compliance with OPW Environmental Drainage Maintenance Guidance Notes 	<ul style="list-style-type: none"> Definition of GEP - EPA Definition of needs - CFB, NPWS, OPW Enforcement of new regulations/guidelines - Las Funding for pilot measures implementation - DEHLG Implementation sequencing - all owners Implementation sequencing - LAs LA resources - DEHLG Legislation/guidance - DEHLG Natural recovery - Nature Planning - NPWS, LA, An Bord Plenala Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> National Water Pricing Policy Framework (1998) Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) Water Supplies Act 1942 	<ul style="list-style-type: none"> Abstractor - Implementor An Bord Plenala, LA, DEMNR - Planning Courts - Enforcement DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) EPA, DEMNR - Regulatory Agency EPA, LA - Inspections EPA, LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater Modernise Abstraction Legislation, including a system for licensing surface water abstractions 	<ul style="list-style-type: none"> Enforcement - EPA Evaluation methodology - DEHLG, EPA Funding - DEHLG Natural recovery time - Nature New Regulations - DEHLG Sequencing of implementation - All listed Agencies

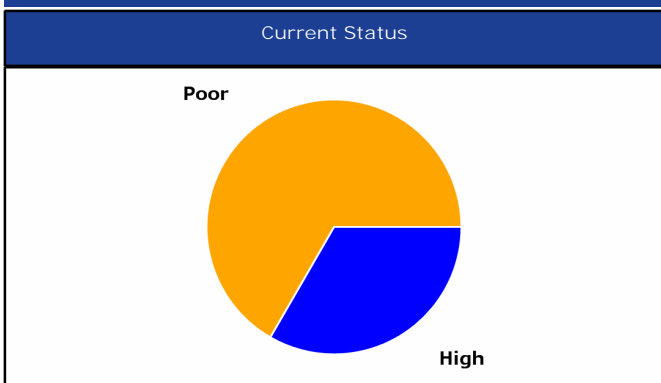
Cammock Water Management Unit



Symbols	Meaning
	County boundaries
	Water Management Unit of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Cammock Water Management Unit



Water Bodies in WMU	Current Status	Achieve Good Status by
CammockTRIB_Cheeverstown	High	2009
Cammock2_Upper	Poor	2027
Cammock1_Lower	Poor	2027

WMU to Achieve Good Status by 2027

Wastewater Treatment Plants

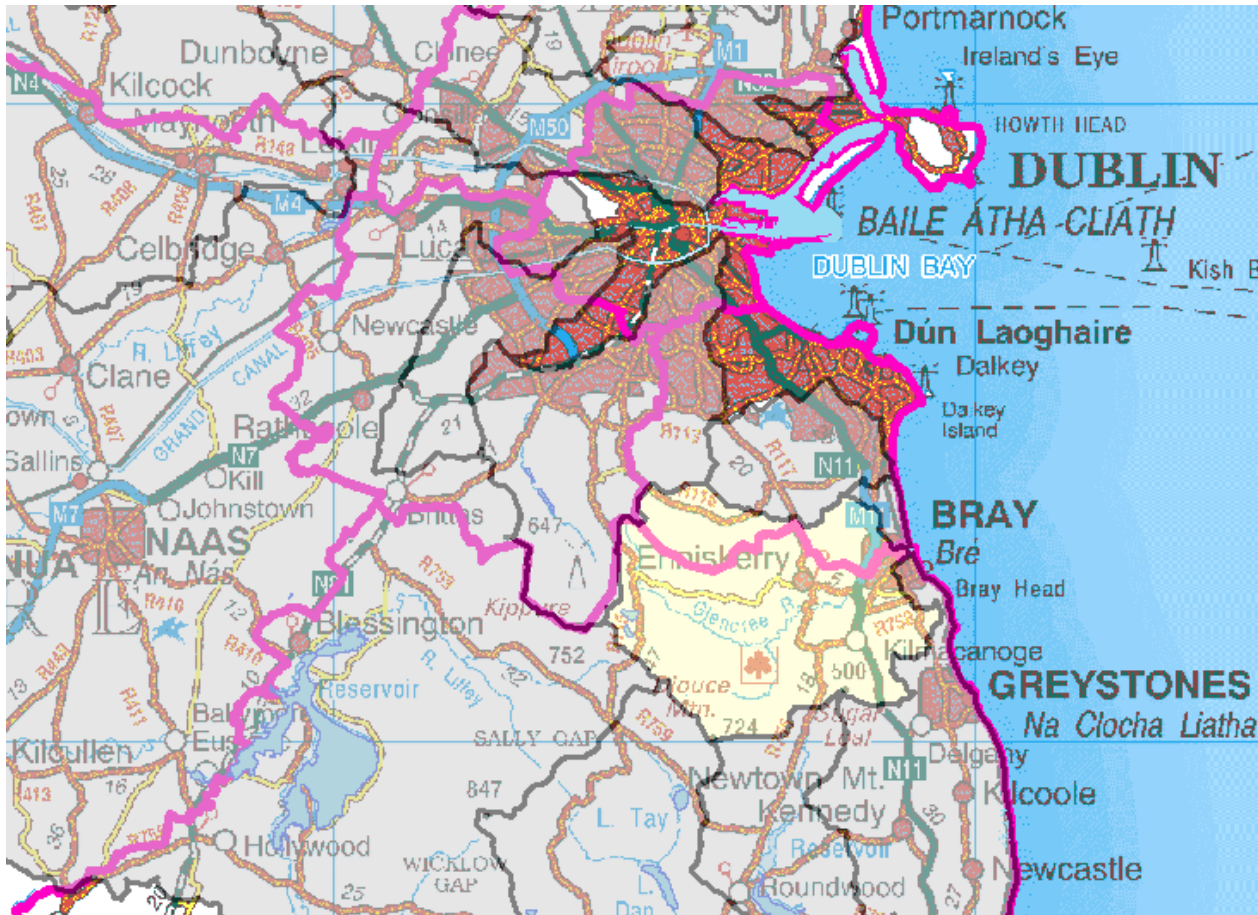
None.



Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Planning and Development Regulations 2001 - 2007 •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EPA (Licensing) Regulations, 1994 & 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Planning and Development Regulations 2001 - 2007 •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Diffuse Runoff (Urban) - Gullies Management •Diffuse Runoff (Urban) - Implement SUDS (Including Green Roofs Guidance) •Diffuse Runoff (Urban) - Storm sewers separation and qualitative improvement •Diffuse Runoff (Urban) - Street Cleaning Programme •Further investigation/monitoring required •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	10%	<ul style="list-style-type: none"> •Planning and Development Regulations 2001 - 2007 •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •Planning and Development Regulations 2001 - 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	60%	<ul style="list-style-type: none"> EPA (Licensing) Regulations, 1994 & 2004 Local Government (Water Pollution) Act 1 of 1977 and amendments Planning and Development Regulations 2001 - 2007 Urban Waste Water Treatment Regulations, 2001 - 2004 Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) Bathing Water Quality Regulations (S.I. 79 of 2008) Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003.) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) EPA Waste (Licensing) Regulations, 2004 Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) Water Services Act 2007 	<ul style="list-style-type: none"> Courts - Enforcement DEHLG - Grant Funding (WSIP) DEHLG, EPA - Regulatory Agency EPA, LA - Inspections EPA, LA - Licensing Agency Plant owner - Funding Plant owner - Implementor 	<ul style="list-style-type: none"> Assess CSO and Water Quality Impact from Urban Pressures Collection system - Network management & operations programme Collection System - Upgrades and rehabilitation Diffuse Runoff (Urban) - Gullies Management Diffuse Runoff (Urban) - Implement SUDS (Including Green Roofs Guidance) Diffuse Runoff (Urban) - Storm sewers separation and qualitative improvement Diffuse Runoff (Urban) - Street Cleaning Programme Emphasise linkages between Planning, Water Services, Transport and Environmental Sections within Local Authorities for planning purposes Further investigation/monitoring required Implement Fats, Oils and Grease Programme Implement upstream Programmes of Measures Investigate and eliminate misconconnections 	<ul style="list-style-type: none"> Contract approval - DEHLG WSIP Funding, Owner funding Funding for pilot implementation - DEHLG Inclusion on WSIP planning list - DEHLG Licensing as necessary - EPA Operational improvements - Owner, operator Owner implementation - Owner Planning controls - LAs, An Bord Plenala Preparation of Water Services Strategic Plans - Local Authority Regulatory approvals - DEHLG, EPA WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	10%	<ul style="list-style-type: none"> Planning and Development Regulations 2001 - 2007 Bathing Water Quality Regulations (S.I. 79 of 2008) EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement EPA Guidance LA - Inspections LA Bye Laws, LA Planning - Licensing Agency Owner - Implementor 	<ul style="list-style-type: none"> Further investigation/monitoring required Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> Enforcement of new regulations/guidelines - LAs Funding of pilot measures - DEHLG Legislation/guidance - DEHLG/EPA Local Authority Resources - DEHLG Natural recovery - Nature Owner funding - Owner Programme implementation sequencing - LAs Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> Planning and Development Regulations 2001 - 2007 EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) Foreshore Act (1933) 	<ul style="list-style-type: none"> An Bord Pleanala, LA, CFB - Inspections Courts - Enforcement DEHLG, DEMNR, OPW - Grant Funding EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency OPW, EPA, DCMNR - Regulatory Agency Owner - Funding Owner, OPW - Implementor 	<ul style="list-style-type: none"> Apply Heavily Modified Waterbody Measures (See External Document) 	<ul style="list-style-type: none"> Definition of GEP - EPA Definition of needs - CFB, NPWS, OPW Enforcement of new regulations/guidelines - LAs Funding for pilot measures implementation - DEHLG Implementation sequencing - all owners Implementation sequencing - LAs LA resources - DEHLG Legislation/guidance - DEHLG Natural recovery - Nature Planning - NPWS, LA, An Bord Pleanala Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> National Water Pricing Policy Framework (1998) Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) Water Supplies Act 1942 	<ul style="list-style-type: none"> Abstractor - Implementor An Bord Pleanala, LA, DEMNR - Planning Courts - Enforcement DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) EPA, DEMNR - Regulatory Agency EPA, LA - Inspections EPA, LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater Modernise Abstraction Legislation, including a system for licensing surface water abstractions 	<ul style="list-style-type: none"> Enforcement - EPA Evaluation methodology - DEHLG, EPA Funding - DEHLG Natural recovery time - Nature New Regulations - DEHLG Sequencing of implementation - All listed Agencies

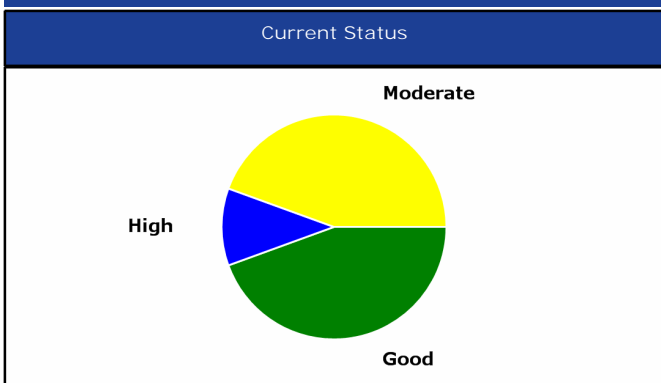
Dargle Water Management Unit



Symbols	Meaning
	County boundaries
	Water Management Unit of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Dargle Water Management Unit



Water Bodies in WMU	Current Status	Achieve Good Status by	Water Bodies in WMU	Current Status	Achieve Good Status by
Dargle2_Mid	Good	2009	Dargle3_Upper	Good	2009
DargleTRIB_Glencullen	Good	2009	GlencreeTRIB_Tonduff	High	2009
DargleTRIB_Glencree2_Upper	Good	2009	Dargle1_Lower	Moderate	2027
WMU to Achieve Good Status by 2027			DargleTRIB_Killough	Moderate	2027
			DargleTRIB_Deerpark	Moderate	2027

Wastewater Treatment Plants

Enniskerry WwTW

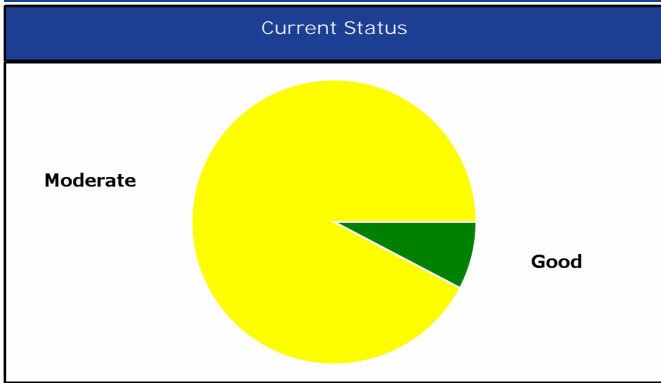
Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio-Chemical)	10%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Restrict cattle access to rivers - Create cattle drinking points •River Polishing - Reed Bed 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Urban Waste Water Treatment Regulations, 2001 - 2004 •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Diffuse Runoff (Urban) - Implement SUDS (Including Green Roofs Guidance) •Further investigation/monitoring required •River Polishing - Reed Bed 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	10%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Implement Forestry and Water Quality Guidelines •River Polishing - Reed Bed 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	10%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •Planning and Development Regulations 2001 - 2007 •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Mitigate impact of quarry activities •River Polishing - Reed Bed 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	60%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Urban Waste Water Treatment Regulations, 2001 - 2004 •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Collection System - Upgrades and rehabilitation •CSOs to comply with GSDSDS recommendations •Diffuse Runoff (Urban) - Implement SUDS (Including Green Roofs Guidance) •Emphasise linkages between Planning, Water Services, Transport and Environmental Sections within Local Authorities for planning purposes •Further investigation/monitoring required •Implement community digestors for alternative energy •Investigate and eliminate misconnections •River Polishing - Reed Bed •Upgrade WWTW and Collecting Systems <2000 PE 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	10%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •Planning and Development Regulations 2001 - 2007 •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Carry out septic system inspections and upgrades •Enforce regulations on septic systems •Further investigation/monitoring required •River Polishing - Reed Bed 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> •EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) •Planning and Development Regulations 2001 - 2007 •Foreshore Act (1933) 	<ul style="list-style-type: none"> •An Bord Pleanala, LA, CFB - Inspections •Courts - Enforcement •DEHLG, DEMNR, OPW - Grant Funding •EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency •OPW, EPA, DCMNR - Regulatory Agency •Owner - Funding •Owner, OPW - Implementor 	<ul style="list-style-type: none"> •Address diffuse silt pollution from green field site development •Facilitate fish migration •Freshwater Pearl Mussel Management Plans •Further investigation/monitoring required •Introduce soft edges to inferior habitats •OPW - Environmental River Enhancement Programme 2008 -2012 •Preserve and/or restore banks •Restoration works on intensive land use for Freshwater Morphology •Survey Banks/Coast 	<ul style="list-style-type: none"> •Definition of GEP - EPA •Definition of needs - CFB, NPWS, OPW •Enforcement of new regulations/guidelines - Las •Funding for pilot measures implementation - DEHLG •Implementation sequencing - all owners •Implementation sequencing - LAs •LA resources - DEHLG •Legislation/guidance - DEHLG •Natural recovery - Nature •Planning - NPWS, LA, An Bord Plenala •Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater •Modernise Abstraction Legislation, including a system for licensing surface water abstractions 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Deel Water Management Unit



Water Bodies in WMU	Current Status	Achieve Good Status by	Water Bodies in WMU	Current Status	Achieve Good Status by
DeelTRIB_Curris	Good	2009	RiverstownTRIB_Cloghan2_Upper	Moderate	2021
Deel2_Mid	Moderate	2015	DeelTRIB_LoughLeneAdeelStream	Moderate	2021
DeelTRIB_Dardistown2_Upper	Moderate	2021	DeelTRIB_Ballyhaw	Moderate	2027
DeelTRIB_Riverstown	Moderate	2021	Deel1_Lower	Moderate	2021
RiverstownTRIB_DerreenavaghSteam	Moderate	2015	DeelTRIB_Ankersland	Moderate	2015
WMU to Achieve Good Status by 2027			RiverstownTRIB_Cloghan1_Lower	Moderate	2021
			Deel3_Upper	Moderate	2015

Wastewater Treatment Plants

Killucan WwTW
Ratarney WwTW

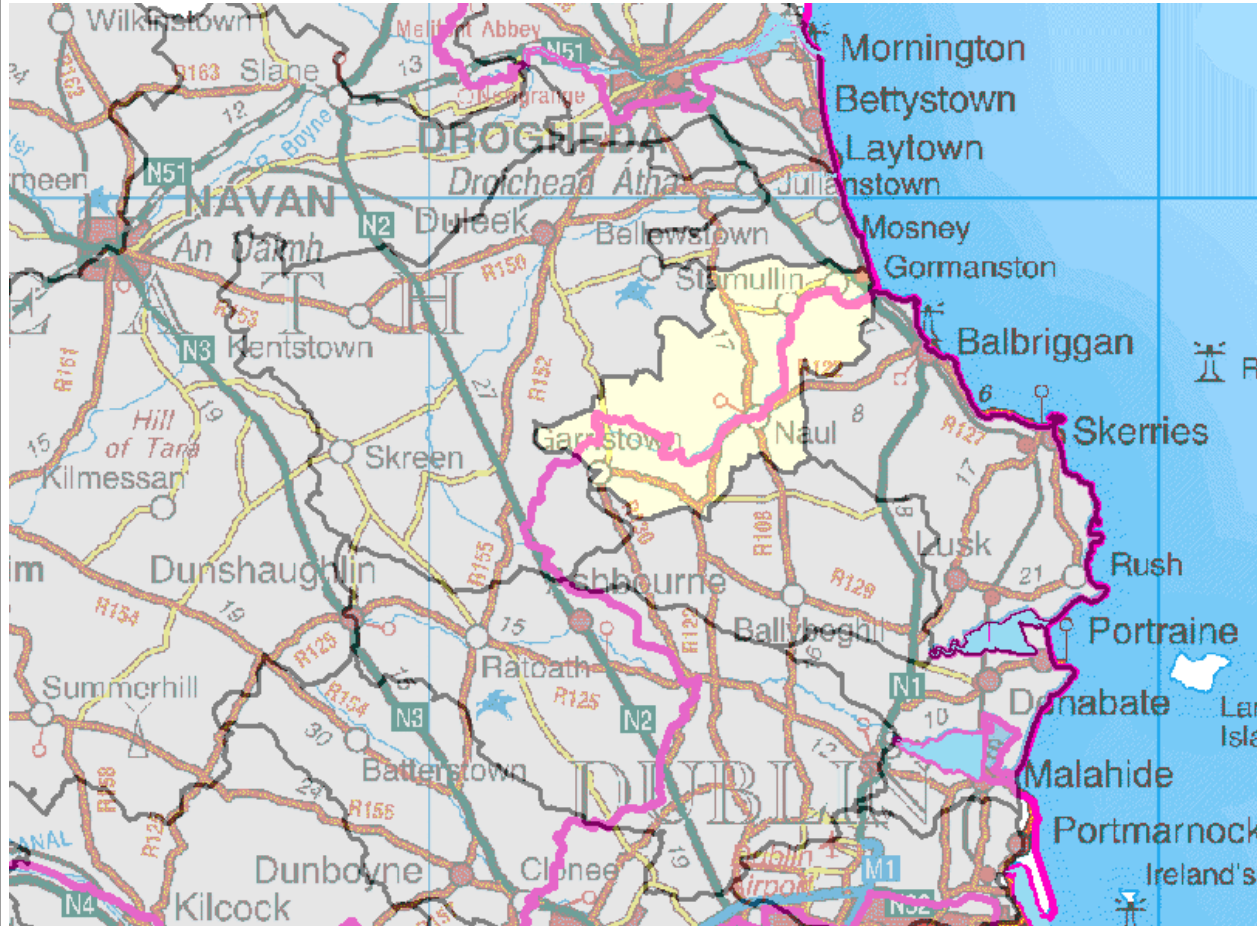
Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	70%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •DEHLG - Code of Good Practice and Guidelines on the use of Biosolids in Agriculture, 1999 •Further investigation/monitoring required •Restrict cattle access to rivers - Create cattle drinking points 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies



Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	10%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Emphasise linkages between Planning, Water Services, Transport and Environmental Sections within Local Authorities for planning purposes •Further investigation/monitoring required •Implement community digestors for alternative energy 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	10%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Enforce regulations on septic systems •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> •EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) •Foreshore Act (1933) •Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> •An Bord Pleanala, LA, CFB - Inspections •Courts - Enforcement •DEHLG, DEMNR, OPW - Grant Funding •EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency •OPW, EPA, DCMNR - Regulatory Agency •Owner - Funding •Owner, OPW - Implementor 		<ul style="list-style-type: none"> •Definition of GEP - EPA •Definition of needs - CFB, NPWS, OPW •Enforcement of new regulations/guidelines - Las •Funding for pilot measures implementation - DEHLG •Implementation sequencing - all owners •Implementation sequencing - LAs •LA resources - DEHLG •Legislation/guidance - DEHLG •Natural recovery - Nature •Planning - NPWS, LA, An Bord Plenala •Public Awareness - DEHLG

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •Alter the availability of supply through conjunctive use or integrated water resources management, water reuse, implementing SUDS in developed areas, implementation of abstraction controls, use of additional storage or alternative water source •Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater •Develop and employ demand reduction measures •Develop Habitat Suitability Curves for coarse fish and other important aquatic organisms •Develop Habitat Suitability Curves for salmonids in Irish rivers •In flow regulated rivers, establish guidance on flow variations to support ecology •Investigate implementation of smaller water schemes to reduce demand on other resources •Modernise Abstraction Legislation, including a system for licensing surface water abstractions •Record daily abstraction rates 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

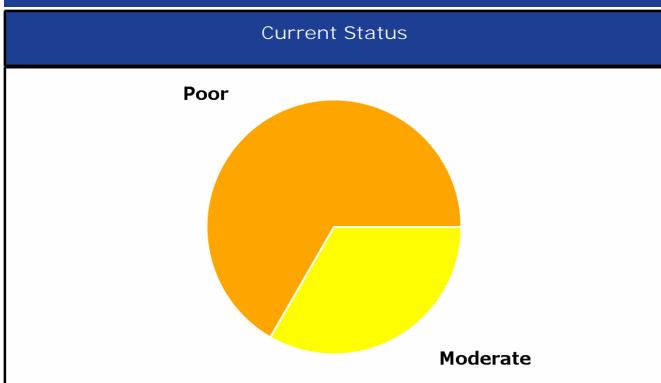
Delvin Water Management Unit



Symbols	Meaning
	County boundaries
	Water Management Unit of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Delvin Water Management Unit



Water Bodies in WMU	Current Status	Achieve Good Status by
DelvinTRIB_Saddlestown	Moderate	2027
Delvin1_Lower	Poor	2021
Delvin2_Upper	Poor	2021

WMU to Achieve Good Status by 2027

Wastewater Treatment Plants

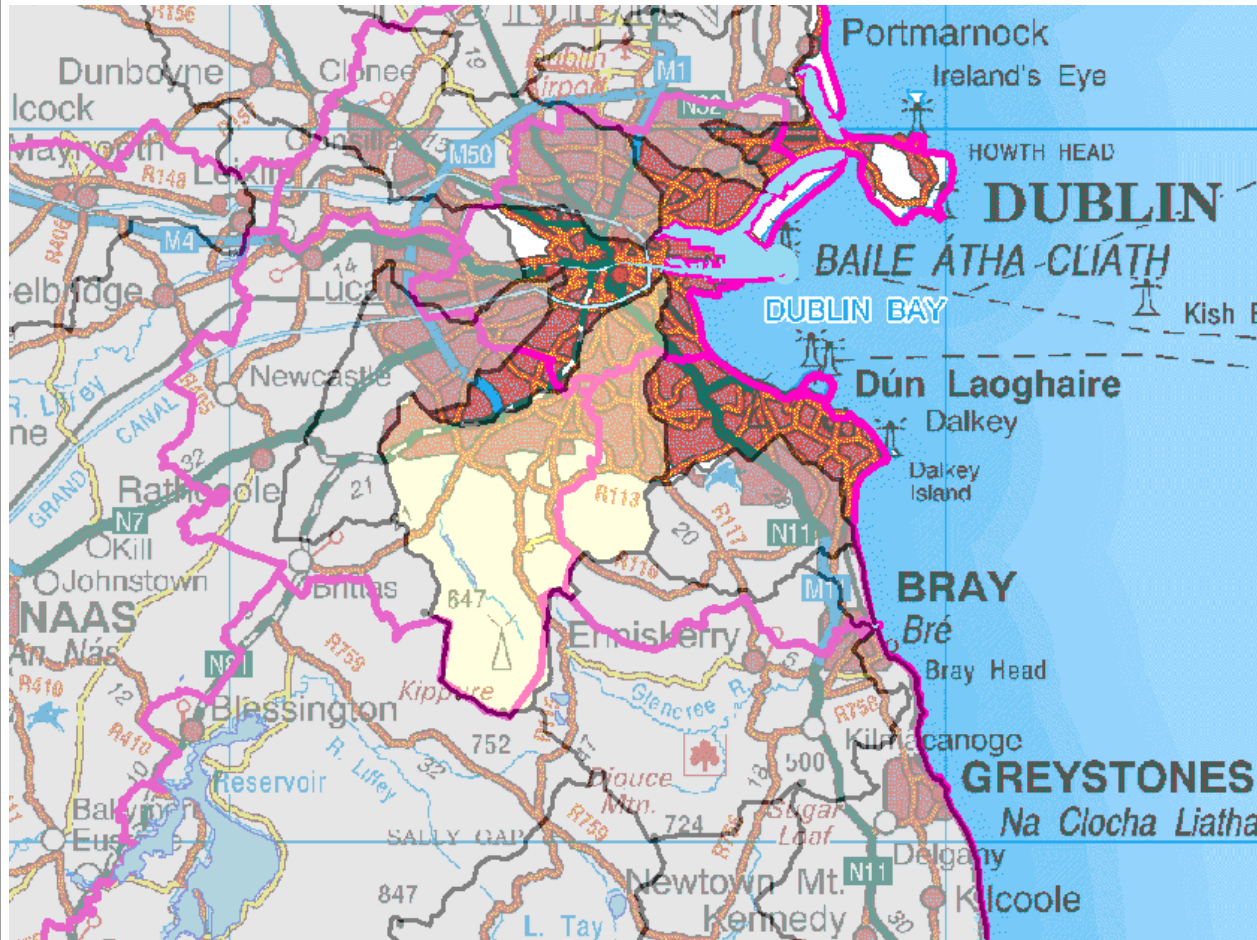
Naul WwTW



Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio-Chemical)	60%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •DEHLG - Code of Good Practice and Guidelines on the use of Biosolids in Agriculture, 1999 •Further investigation/monitoring required •Restrict cattle access to rivers - Create cattle drinking points 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •PCS - Principles for Good Plant Protection Practice 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	20%	<ul style="list-style-type: none"> •Local Government (Water Pollution) Act 1 of 1977 and amendments •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Emphasise linkages between Planning, Water Services, Transport and Environmental Sections within Local Authorities for planning purposes •Further investigation/monitoring required •Implement community digestors for alternative energy •Tertiary Treatment •Upgrade WWTW <2000 PE •Upgrade WWTW and Collecting Systems <2000 PE 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	10%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Enforce regulations on septic systems •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> •EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) •Foreshore Act (1933) •Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> •An Bord Pleanala, LA, CFB - Inspections •Courts - Enforcement •DEHLG, DEMNR, OPW - Grant Funding •EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency •OPW, EPA, DCMNR - Regulatory Agency •Owner - Funding •Owner, OPW - Implementor 		<ul style="list-style-type: none"> •Definition of GEP - EPA •Definition of needs - CFB, NPWS, OPW •Enforcement of new regulations/guidelines - Las •Funding for pilot measures implementation - DEHLG •Implementation sequencing - all owners •Implementation sequencing - LAs •LA resources - DEHLG •Legislation/guidance - DEHLG •Natural recovery - Nature •Planning - NPWS, LA, An Bord Plenala •Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater •Modernise Abstraction Legislation, including a system for licensing surface water abstractions 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

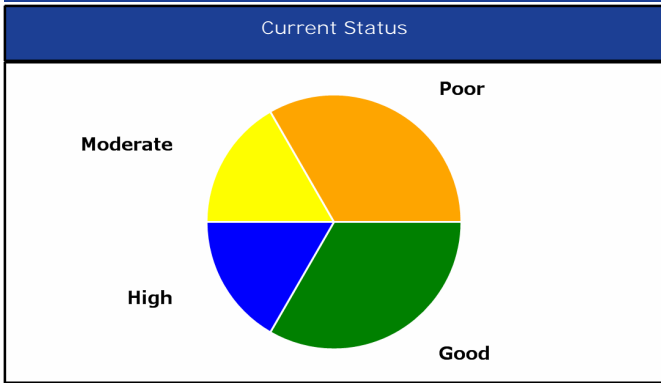
Dodder Water Management Unit



Symbols	Meaning
	County boundaries
	Water Management Unit of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Dodder Water Management Unit



Water Bodies in WMU	Current Status	Achieve Good Status by	Water Bodies in WMU	Current Status	Achieve Good Status by
Dodder3_Upper	Good	2009	DodderTRIB_Slade	High	2009
DodderTRIB_Cot	Good	2009	Dodder2_Mid	Moderate	2027
DodderTRIB_Seefingan	Good	2009	OwenadoherTRIB_Rockbrook	Moderate	2021
DodderTRIB_Owenadoher2_Upper	Good	2009	DodderTRIB_Firhouse	Poor	2021
DodderTRIB_Castlekelly	High	2009	DodderTRIB_Owenadoher1_Lower	Poor	2021
WMU to Achieve Good Status by 2027			DodderTRIB_Tallaght	Poor	2021

Wastewater Treatment Plants

None.

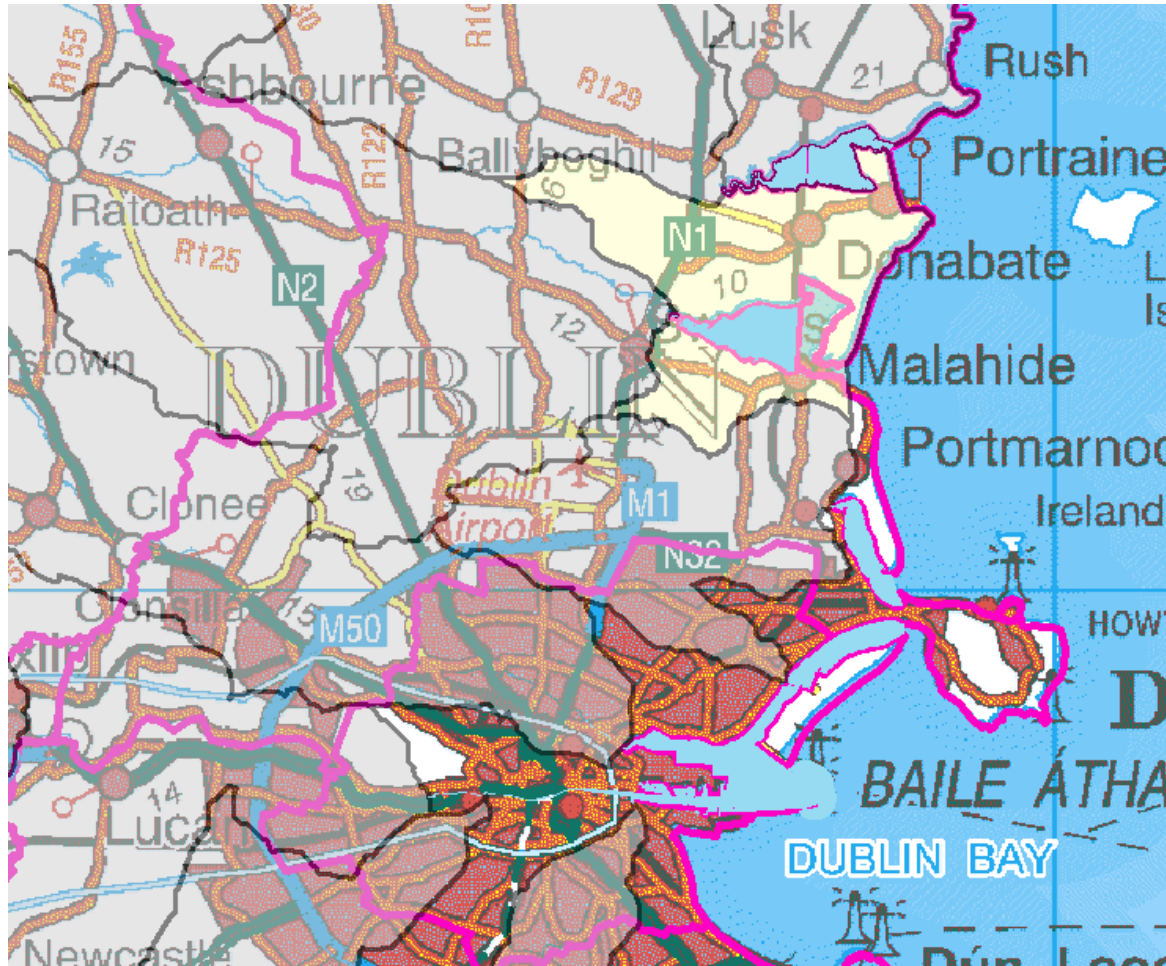
Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio-Chemical)	10%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Planning and Development Regulations 2001 - 2007 •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Implement upstream Programmes of Measures •River Polishing - Reed Bed 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies



Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EPA (Licensing) Regulations, 1994 & 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Planning and Development Regulations 2001 - 2007 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Diffuse Runoff (Urban) - Gullies Management •Diffuse Runoff (Urban) - Implement SUDS (Including Green Roofs Guidance) •Diffuse Runoff (Urban) - Storm sewers separation and qualitative improvement •Diffuse Runoff (Urban) - Street Cleaning Programme •Further investigation/monitoring required •Implement upstream Programmes of Measures •River Polishing - Reed Bed 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	10%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •Planning and Development Regulations 2001 - 2007 •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Implement upstream Programmes of Measures •River Polishing - Reed Bed 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •Planning and Development Regulations 2001 - 2007 •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Implement upstream Programmes of Measures •River Polishing - Reed Bed 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	60%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EPA (Licensing) Regulations, 1994 & 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Planning and Development Regulations 2001 - 2007 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Assess CSO and Water Quality Impact from Urban Pressures •Collection system - Network management & operations programme •Collection System - Upgrades and rehabilitation •CSOs to comply with GSDSDS recommendations •Diffuse Runoff (Urban) - Gullies Management •Diffuse Runoff (Urban) - Implement SUDS (Including Green Roofs Guidance) •Diffuse Runoff (Urban) - Storm sewers separation and qualitative improvement •Diffuse Runoff (Urban) - Street Cleaning Programme •Emphasise linkages between Planning, Water Services, Transport and Environmental Sections within Local Authorities for planning purposes •Further investigation/monitoring required •Implement Fats, Oils and Grease Programme •Implement upstream Programmes of Measures •Investigate and eliminate misconnections •River Polishing - Reed Bed 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	10%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •Planning and Development Regulations 2001 - 2007 •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Implement upstream Programmes of Measures •River Polishing - Reed Bed 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> •EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) •Planning and Development Regulations 2001 - 2007 •Foreshore Act (1933) 	<ul style="list-style-type: none"> •An Bord Pleanala, LA, CFB - Inspections •Courts - Enforcement •DEHLG, DEMNR, OPW - Grant Funding •EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency •OPW, EPA, DCMNR - Regulatory Agency •Owner - Funding •Owner, OPW - Implementor 	<ul style="list-style-type: none"> •Address diffuse silt pollution from green field site development •Facilitate fish migration •Introduce soft edges to inferior habitats •Morphology - Physical Modifications Campaign •Preserve and/or restore banks •Survey Banks/Coast 	<ul style="list-style-type: none"> •Definition of GEP - EPA •Definition of needs - CFB, NPWS, OPW •Enforcement of new regulations/guidelines - Las •Funding for pilot measures implementation - DEHLG •Implementation sequencing - all owners •Implementation sequencing - LAs •LA resources - DEHLG •Legislation/guidance - DEHLG •Natural recovery - Nature •Planning - NPWS, LA, An Bord Plenala •Public Awareness - DEHLG

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •Alter the availability of supply through conjunctive use or integrated water resources management, water reuse, implementing SUDS in developed areas, implementation of abstraction controls, use of additional storage or alternative water source •Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater •Develop and employ demand reduction measures •Develop Habitat Suitability Curves for coarse fish and other important aquatic organisms •Develop Habitat Suitability Curves for salmonids in Irish rivers •Further investigation/monitoring required •In flow regulated rivers, establish guidance on flow variations to support ecology •Investigate implementation of smaller water schemes to reduce demand on other resources •Modernise Abstraction Legislation, including a system for licensing surface water abstractions •No Measure Needed •Record daily abstraction rates 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

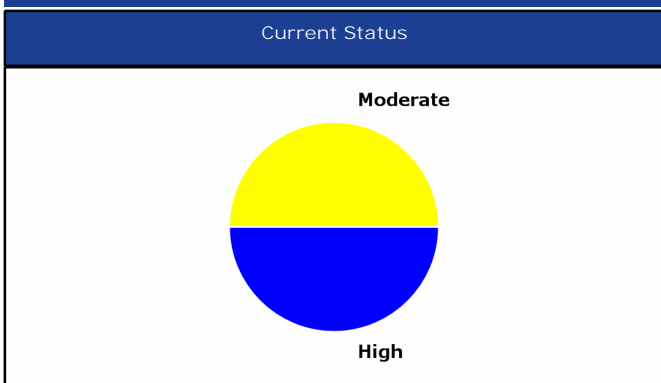
Donabate Water Management Unit



Symbols	Meaning
	County boundaries
	Water Management Unit of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Donabate Water Management Unit



Water Bodies in WMU	Current Status	Achieve Good Status by
Broadmeadow1_Lower	High	2009
Donabate1	Moderate	2015
WMU to Achieve Good Status by 2015		

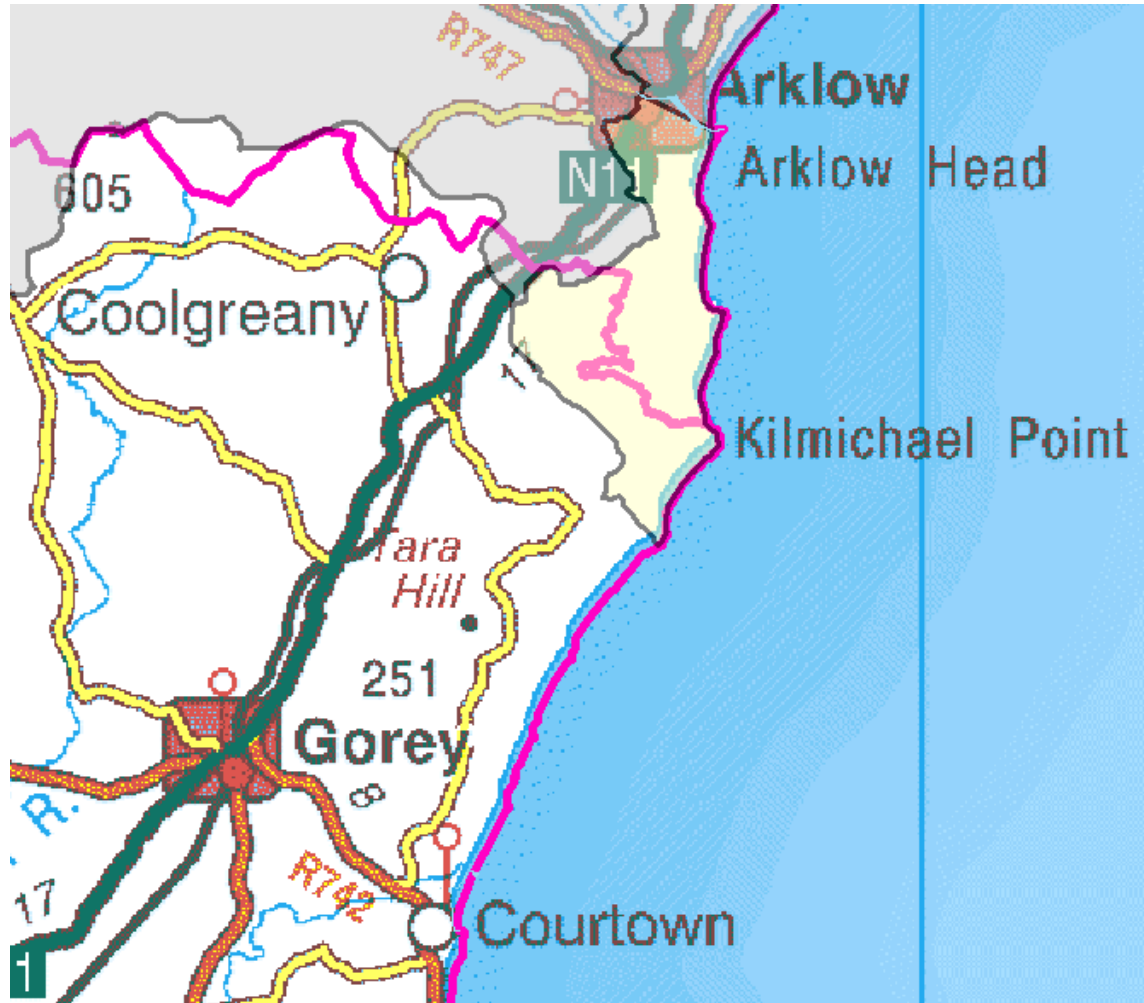
Wastewater Treatment Plants
None.



Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	40%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Restrict cattle access to rivers - Create cattle drinking points 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	50%	<ul style="list-style-type: none"> Local Government (Water Pollution) Act 1 of 1977 and amendments Urban Waste Water Treatment Regulations, 2001 - 2004 Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) Bathing Water Quality Regulations (S.I. 79 of 2008) Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) EPA (Licensing) Regulations, 1994 & 2004 EPA Waste (Licensing) Regulations, 2004 Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) Water Services Act 2007 	<ul style="list-style-type: none"> Courts - Enforcement DEHLG - Grant Funding (WSIP) DEHLG, EPA - Regulatory Agency EPA, LA - Inspections EPA, LA - Licensing Agency Plant owner - Funding Plant owner - Implementor 	<ul style="list-style-type: none"> Emphasise linkages between Planning, Water Services, Transport and Environmental Sections within Local Authorities for planning purposes Further investigation/monitoring required Improve removal of certain parameters at WWTP 	<ul style="list-style-type: none"> Contract approval - DEHLG WSIP Funding, Owner funding Funding for pilot implementation - DEHLG Inclusion on WSIP planning list - DEHLG Licensing as necessary - EPA Operational improvements - Owner, operator Owner implementation - Owner Planning controls - LAs, An Bord Plenala Preparation of Water Services Strategic Plans - Local Authority Regulatory approvals - DEHLG, EPA WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	10%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement EPA Guidance LA - Inspections LA Bye Laws, LA Planning - Licensing Agency Owner - Implementor 	<ul style="list-style-type: none"> Develop septic system management programme Further investigation/monitoring required 	<ul style="list-style-type: none"> Enforcement of new regulations/guidelines - Las Funding of pilot measures - DEHLG Legislation/guidance - DEHLG/EPA Local Authority Resources - DEHLG Natural recovery - Nature Owner funding - Owner Programme implementation sequencing - LAs Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) Foreshore Act (1933) Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> An Bord Pleanala, LA, CFB - Inspections Courts - Enforcement DEHLG, DEMNR, OPW - Grant Funding EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency OPW, EPA, DCMNR - Regulatory Agency Owner - Funding Owner, OPW - Implementor 		<ul style="list-style-type: none"> Definition of GEP - EPA Definition of needs - CFB, NPWS, OPW Enforcement of new regulations/guidelines - Las Funding for pilot measures implementation - DEHLG Implementation sequencing - all owners Implementation sequencing - LAs LA resources - DEHLG Legislation/guidance - DEHLG Natural recovery - Nature Planning - NPWS, LA, An Bord Plenala Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> National Water Pricing Policy Framework (1998) Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) Water Supplies Act 1942 	<ul style="list-style-type: none"> Abstractor - Implementor An Bord Plenala, LA, DEMNR - Planning Courts - Enforcement DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) EPA, DEMNR - Regulatory Agency EPA, LA - Inspections EPA, LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater Modernise Abstraction Legislation, including a system for licensing surface water abstractions 	<ul style="list-style-type: none"> Enforcement - EPA Evaluation methodology - DEHLG, EPA Funding - DEHLG Natural recovery time - Nature New Regulations - DEHLG Sequencing of implementation - All listed Agencies

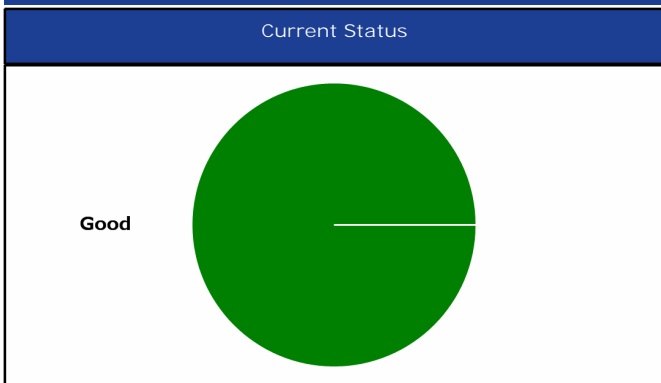
Kilmurry Water Management Unit



Symbols	Meaning
	County boundaries
	Water Management Unit of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Kilmurry Water Management Unit



Water Bodies in WMU	Current Status	Achieve Good Status by
Kilmurry1	Good	2009
WMU to Achieve Good Status by 2009		

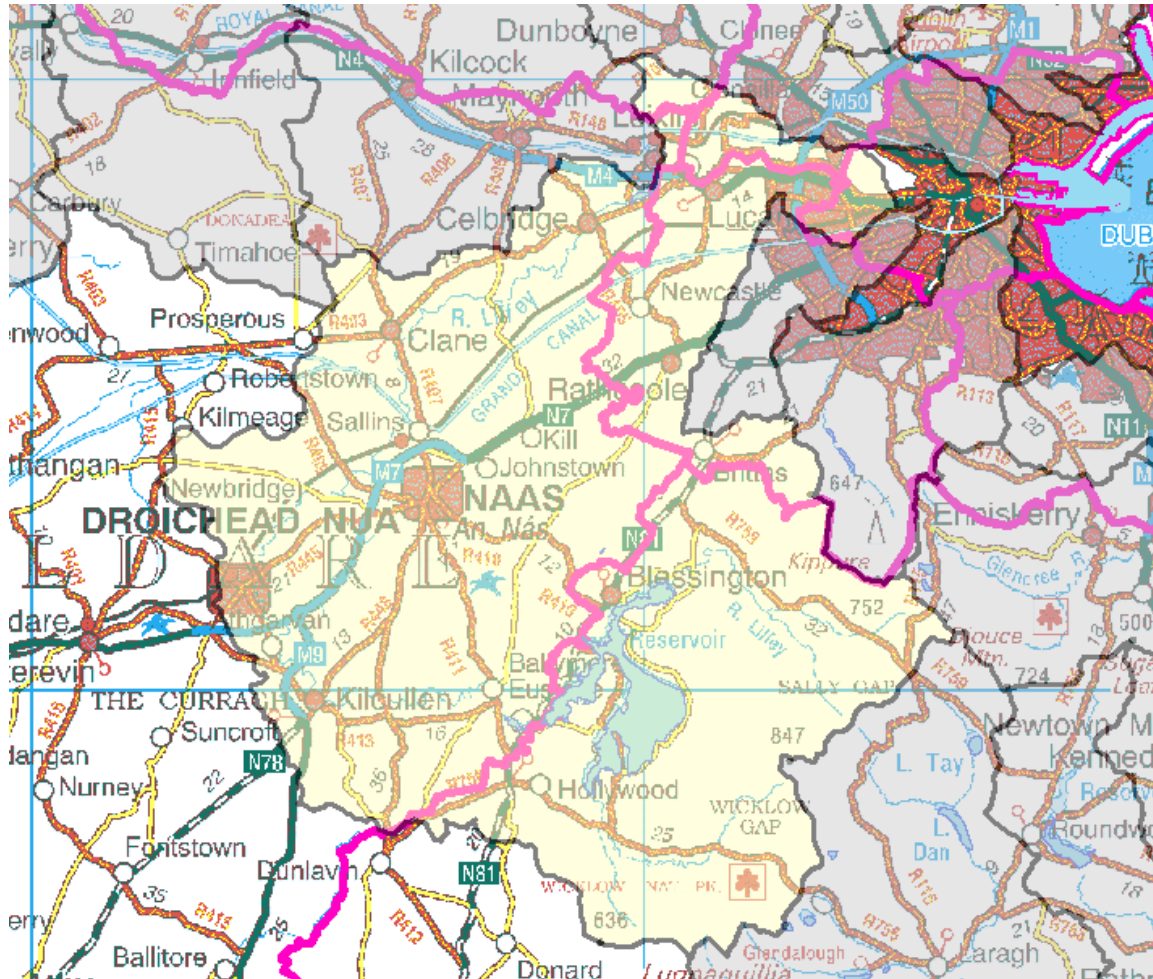
Wastewater Treatment Plants
None.



Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio-Chemical)	90%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Restrict cattle access to rivers - Create cattle drinking points 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EPA (Licensing) Regulations, 1994 & 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Water Quality Dangerous Substances Regulations, 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •Planning and Development Regulations 2001 - 2007 •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •Planning and Development Regulations 2001 - 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	10%	<ul style="list-style-type: none"> EPA (Licensing) Regulations, 1994 & 2004 Local Government (Water Pollution) Act 1 of 1977 and amendments Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) Planning and Development Regulations 2001 - 2007 Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) Water Services Act 2007 Bathing Water Quality Regulations (S.I. 79 of 2008) Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) EPA Waste (Licensing) Regulations, 2004 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) Urban Waste Water Treatment Regulations, 2001 - 2004 	<ul style="list-style-type: none"> Courts - Enforcement DEHLG - Grant Funding (WSIP) DEHLG, EPA - Regulatory Agency EPA, LA - Inspections EPA, LA - Licensing Agency Plant owner - Funding Plant owner - Implementor 	<ul style="list-style-type: none"> Emphasise linkages between Planning, Water Services, Transport and Environmental Sections within Local Authorities for planning purposes Further investigation/monitoring required Implement community digestors for alternative energy 	<ul style="list-style-type: none"> Contract approval - DEHLG WSIP Funding, Owner funding Funding for pilot implementation - DEHLG Inclusion on WSIP planning list - DEHLG Licensing as necessary - EPA Operational improvements - Owner, operator Owner implementation - Owner Planning controls - LAs, An Bord Plenala Preparation of Water Services Strategic Plans - Local Authority Regulatory approvals - DEHLG, EPA WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> Planning and Development Regulations 2001 - 2007 Bathing Water Quality Regulations (S.I. 79 of 2008) EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement EPA Guidance LA - Inspections LA Bye Laws, LA Planning - Licensing Agency Owner - Implementor 	<ul style="list-style-type: none"> Carry out septic system inspections and upgrades Further investigation/monitoring required 	<ul style="list-style-type: none"> Enforcement of new regulations/guidelines - Las Funding of pilot measures - DEHLG Legislation/guidance - DEHLG/EPA Local Authority Resources - DEHLG Natural recovery - Nature Owner funding - Owner Programme implementation sequencing - LAs Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> Planning and Development Regulations 2001 - 2007 EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) Foreshore Act (1933) 	<ul style="list-style-type: none"> An Bord Pleanala, LA, CFB - Inspections Courts - Enforcement DEHLG, DEMNR, OPW - Grant Funding EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency OPW, EPA, DCMNR - Regulatory Agency Owner - Funding Owner, OPW - Implementor 	<ul style="list-style-type: none"> Further investigation/monitoring required No Measure Required 	<ul style="list-style-type: none"> Definition of GEP - EPA Definition of needs - CFB, NPWS, OPW Enforcement of new regulations/guidelines - Las Funding for pilot measures implementation - DEHLG Implementation sequencing - all owners Implementation sequencing - LAs LA resources - DEHLG Legislation/guidance - DEHLG Natural recovery - Nature Planning - NPWS, LA, An Bord Plenala Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> National Water Pricing Policy Framework (1998) Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) Water Supplies Act 1942 	<ul style="list-style-type: none"> Abstractor - Implementor An Bord Plenala, LA, DEMNR - Planning Courts - Enforcement DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) EPA, DEMNR - Regulatory Agency EPA, LA - Inspections EPA, LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater Modernise Abstraction Legislation, including a system for licensing surface water abstractions 	<ul style="list-style-type: none"> Enforcement - EPA Evaluation methodology - DEHLG, EPA Funding - DEHLG Natural recovery time - Nature New Regulations - DEHLG Sequencing of implementation - All listed Agencies

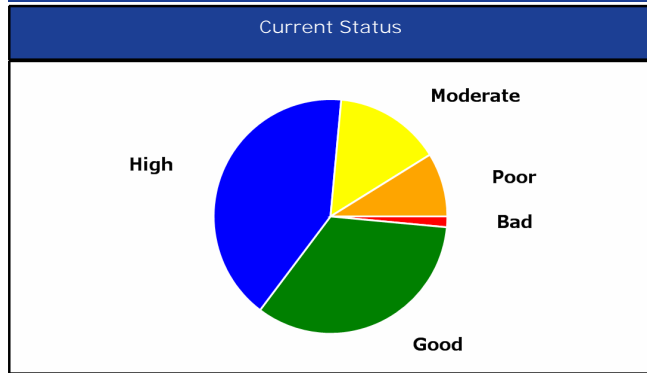
Liffey Water Management Unit



Symbols	Meaning
	County boundaries
	Water Management Unit of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Liffey Water Management Unit



Water Bodies in WMU	Current Status	Achieve Good Status by	Water Bodies in WMU	Current Status	Achieve Good Status by
LiffeyTRIB_Griffeen1_Lower	Bad	2027	LiffeyTRIB_Lugnalee	High	2009
Kings2_Mid	Good	2009	Liffey5_Upper	High	2009
LiffeyTRIB_BallysmuttanNorth	Good	2009	LiffeyTRIB_Woodend	High	2009
LiffeyTRIB_Ballylow2_Upper	Good	2009	LiffeyTRIB_Sraghoe	High	2009
LiffeyTRIB_Lemonstown1_Lower	Good	2009	LiffeyTRIB_Rundle	High	2009
LiffeyTRIB_Athdown	Good	2009	LiffeyTRIB_Blessington	High	2009
LiffeyTRIB_Griffeen2_Upper	Good	2009	BrittasTRIB_Aghfarrell	High	2009
LiffeyTRIB_BallysmuttanBridge	Good	2009	LiffeyTRIB_Dowdenstown	High	2009
PainestownTRIB_Quinsborough	Good	2009	KingsTRIB_Douglas1_Lower	High	2009
LiffeyTRIB_Lemonstown2_Mid	Good	2009	LiffeyTRIB_Kilcullen2_Upper	High	2009
BallywardTRIB_1	Good	2009	KingsTRIB_Douglas2_Upper	High	2009
LiffeyTRIB_Ballyward1_Lower	Good	2009	LiffeyTRIB_Lemonstown3_Upper	High	2009
LiffeyTRIB_Ballyward2_Upper	Good	2009	LiffeyTRIB_Shankill	High	2009
LiffeyTRIB_Morell4_Upper	Good	2009	BallylowTRIB_Ballydonnell	High	2009
LiffeyTRIB_Brittas1_Lower	Good	2009	BrittasTRIB_Knockbane2_Upper	High	2009
LiffeyTRIB_Morell1_Lower	Good	2009	LiffeyTRIB_Ballylow1_Lower	High	2009
PainestownTRIB_Slane	Good	2009	BrittasTRIB_KnockbaneTRIB_1	High	2009
LiffeyTRIB_Brittas2_Mid	Good	2009	LiffeyTRIB_Templeboodin	High	2009
KingsTRIB_Ballinagee	Good	2009	BrittasTRIB_Knockbane1_Lower	High	2009
LiffeyTRIB_Scurlocks	Good	2009	Liffey3	Moderate	2021
LemonstownTRIB_Longstone	Good	2009	LiffeyTRIB_Awillyinish	Moderate	2021
Liffey4	Good	2009	LiffeyTRIB_Morell2	Moderate	2021
Kings3_Upper	Good	2009	LiffeyTRIB_Morell3	Moderate	2021
LiffeyTRIB_Tinode	Good	2009	Liffey1_Lower	Moderate	2021
KingsTRIB_Annalecka	High	2009	LiffeyTRIB_Gollymochy	Moderate	2021
DouglasTRIB_Trether	High	2009	LiffeyTRIB_Westmanstown	Moderate	2027
Liffey2	High	2009	LiffeyTRIB_Wheatfield	Moderate	2021
LiffeyTRIB_Cock1_Lower	High	2009	LiffeyTRIB_Brittas3_Upper	Moderate	2027
CockTRIB_1	High	2009	LiffeyTRIB_Naas	Moderate	2021
LiffeyTRIB_Cock2_Upper	High	2009	MorellTRIB_Painestown	Poor	2021
LiffeyTRIB_BallysmuttanSouth	High	2009	LiffeyTRIB_GriffeenTRIB_Colmanstown	Poor	2021
Kings1_Lower	High	2009	LiffeyTRIB_Kilcullen1_Lower	Poor	2015
LiffeyTRIB_SallyGap	High	2009	MorellTRIB_Rathmore	Poor	2021
WMU to Achieve Good Status by 2027			KingsTRIB_Gleenreemore	Poor	2021

Wastewater Treatment Plants
Ballymore Eustace WwTW
Blessington WwTW

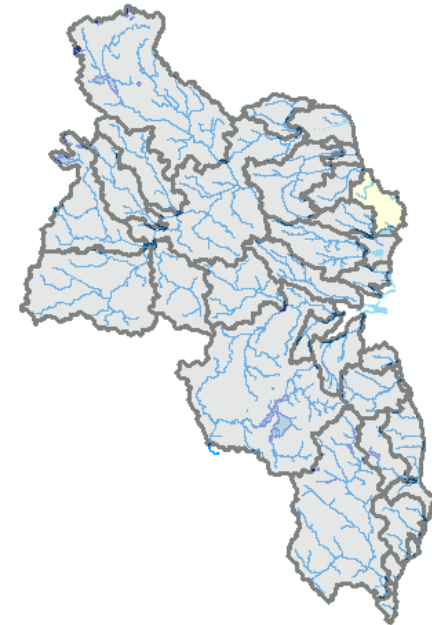
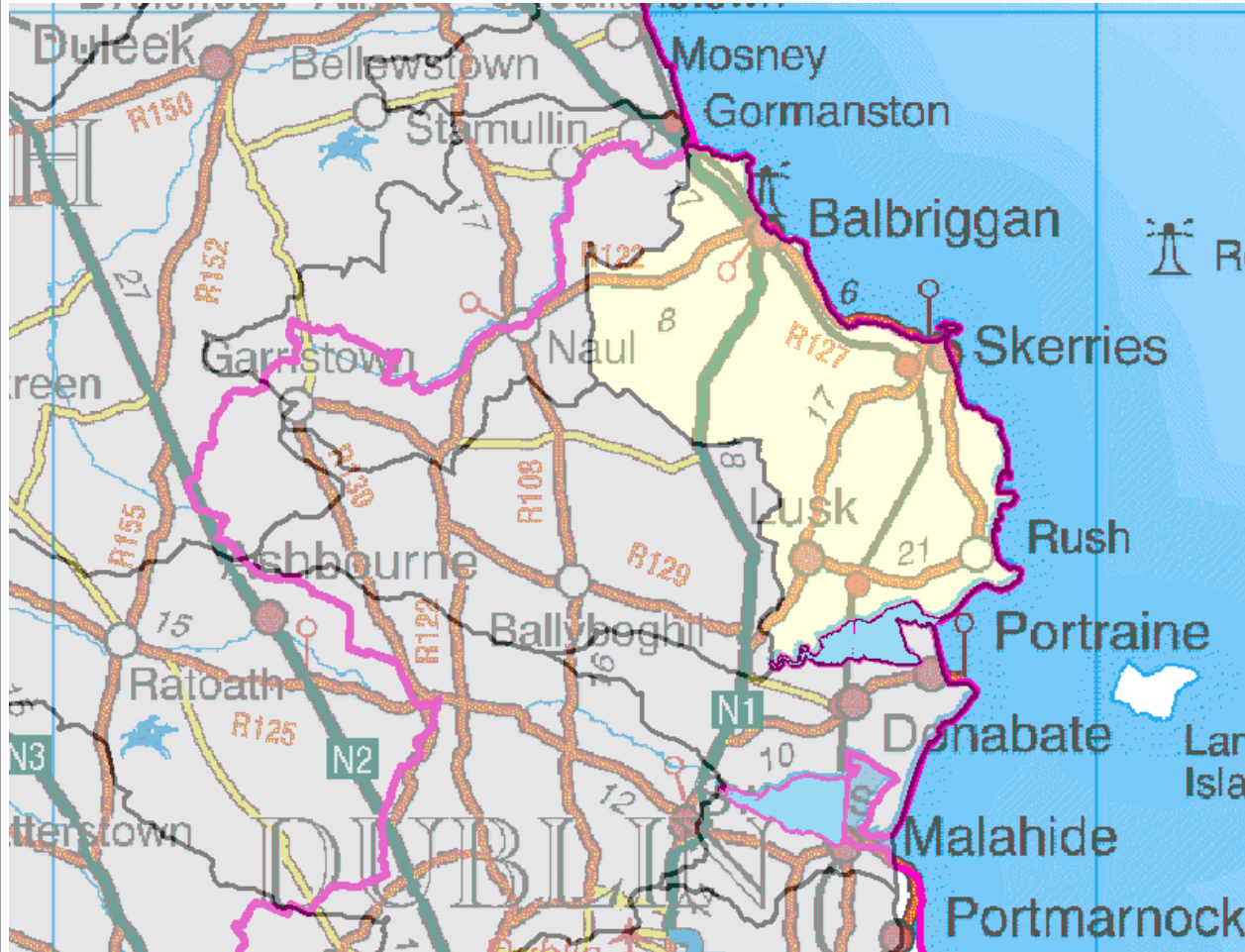
Wastewater Treatment Plants
Donore WwTW
Hollywood WwTW
Kilmeague WwTW
Leixlip WwTW
Osberstown WwTW



Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	20%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Implement upstream Programmes of Measures •Restrict cattle access to rivers - Create cattle drinking points 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Dangerous Substances (Physio- Chemical)	0%	<ul style="list-style-type: none"> •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EPA (Licensing) Regulations, 1994 & 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Protection of Groundwater Regulations (S.I. 41 of 1999) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Diffuse Runoff (Urban) - Gullies Management •Diffuse Runoff (Urban) - Implement SUDS (Including Green Roofs Guidance) •Diffuse Runoff (Urban) - Storm sewers separation and qualitative improvement •Diffuse Runoff (Urban) - Street Cleaning Programme •Further investigation/monitoring required •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Forestry (Physio- Chemical)	10%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Implement Forestry and Water Quality Guidelines •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio- Chemical)	10%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Implement upstream Programmes of Measures •Mitigate impact of quarry activities 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies
Wastewater / Industrial Discharges (Physio- Chemical)	50%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EPA (Licensing) Regulations, 1994 & 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Protection of Groundwater Regulations (S.I. 41 of 1999) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Assess CSO and Water Quality Impact from Urban Pressures •Collection system - Network management & operations programme •Collection System - Upgrades and rehabilitation •Diffuse Runoff (Urban) - Gullies Management •Diffuse Runoff (Urban) - Implement SUDS (Including Green Roofs Guidance) •Diffuse Runoff (Urban) - Storm sewers separation and qualitative improvement •Diffuse Runoff (Urban) - Street Cleaning Programme •Emphasise linkages between Planning, Water Services, Transport and Environmental Sections within Local Authorities for planning purposes •Further investigation/monitoring required •Implement community digestors for alternative energy •Implement Fats, Oils and Grease Programme •Implement upstream Programmes of Measures •Investigate and eliminate misconnections 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Pleanala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Develop septic system management programme •Enforce regulations on septic systems •Further investigation/monitoring required •Implement upstream Programmes of Measures •Increase public awareness 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - LAs •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> •EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) •Planning and Development Regulations 2001 - 2007 •Foreshore Act (1933) 	<ul style="list-style-type: none"> •An Bord Pleanala, LA, CFB - Inspections •Courts - Enforcement •DEHLG, DEMNR, OPW - Grant Funding •EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency •OPW, EPA, DCMNR - Regulatory Agency •Owner - Funding •Owner, OPW - Implementor 	<ul style="list-style-type: none"> •Apply Heavily Modified Waterbody Measures (See External Document) •Facilitate fish migration •Further investigation/monitoring required •No Measure Required 	<ul style="list-style-type: none"> •Definition of GEP - EPA •Definition of needs - CFB, NPWS, OPW •Enforcement of new regulations/guidelines - Las •Funding for pilot measures implementation - DEHLG •Implementation sequencing - all owners •Implementation sequencing - Las •LA resources - DEHLG •Legislation/guidance - DEHLG •Natural recovery - Nature •Planning - NPWS, LA, An Bord Pleanala •Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Pleanala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •Alter the availability of supply through conjunctive use or integrated water resources management, water reuse, implementing SUDS in developed areas, implementation of abstraction controls, use of additional storage or alternative water source •Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater •Develop and employ demand reduction measures •Develop Habitat Suitability Curves for coarse fish and other important aquatic organisms •Develop Habitat Suitability Curves for salmonids in Irish rivers •In flow regulated rivers, establish guidance on flow variations to support ecology •Investigate implementation of smaller water schemes to reduce demand on other resources •Modernise Abstraction Legislation, including a system for licensing surface water abstractions •No Measure Needed •Record daily abstraction rates 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

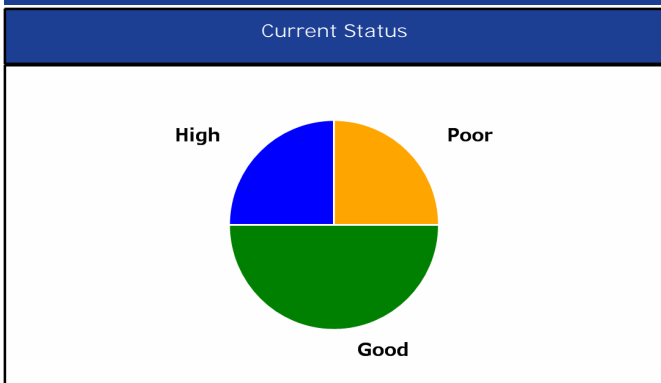
Lusk Water Management Unit



Symbols	Meaning
	County boundaries
	Water Management Unit of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Lusk Water Management Unit



Water Bodies in WMU	Current Status	Achieve Good Status by
Skerries1	Good	2009
Balbriggan1	Good	2009
Lusk2_Upper	High	2009
Lusk1_Lower	Poor	2027
WMU to Achieve Good Status by 2027		

Wastewater Treatment Plants

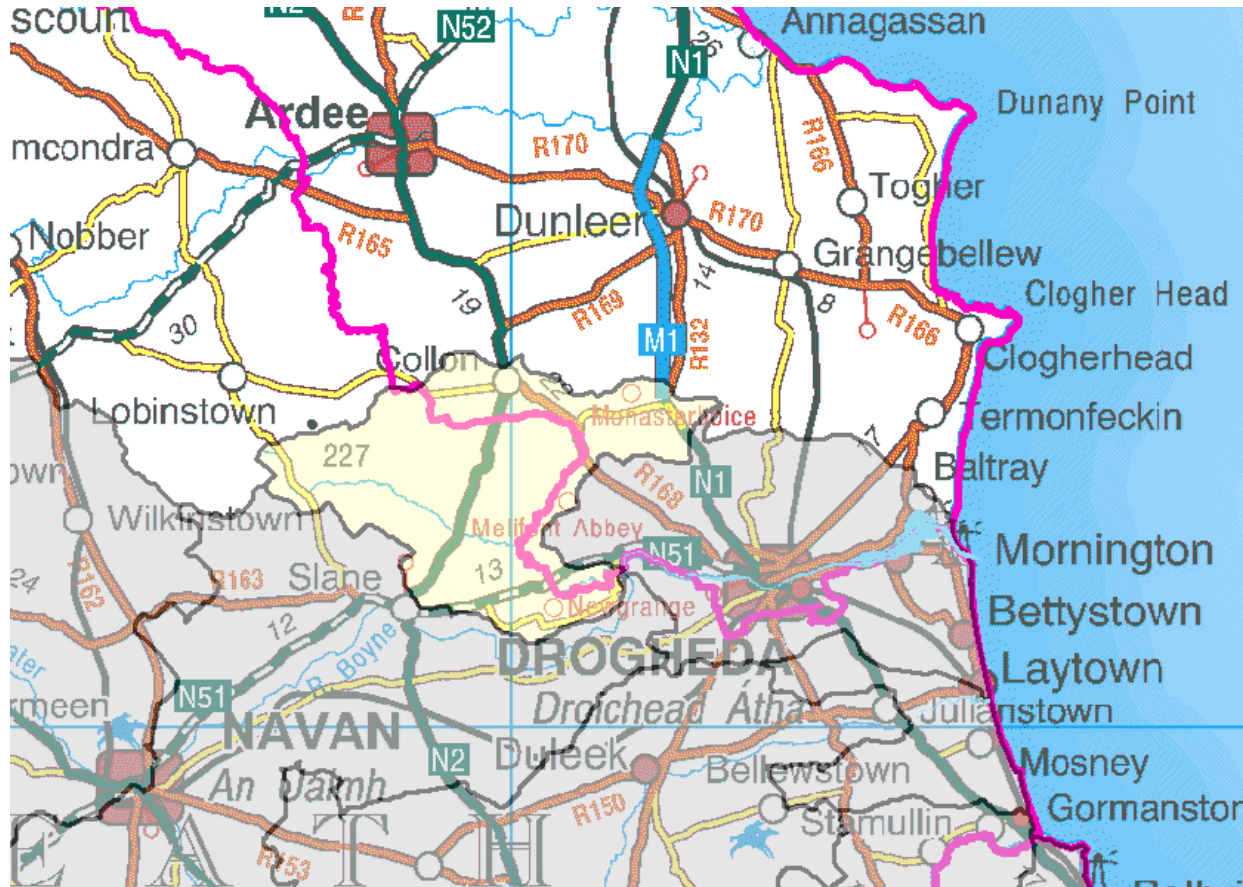
None.



Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio-Chemical)	60%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Restrict cattle access to rivers - Create cattle drinking points 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	20%	<ul style="list-style-type: none"> •Local Government (Water Pollution) Act 1 of 1977 and amendments •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Emphasise linkages between Planning, Water Services, Transport and Environmental Sections within Local Authorities for planning purposes •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	20%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Develop septic system management programme •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> •EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) •Foreshore Act (1933) •Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> •An Bord Pleanala, LA, CFB - Inspections •Courts - Enforcement •DEHLG, DEMNR, OPW - Grant Funding •EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency •OPW, EPA, DCMNR - Regulatory Agency •Owner - Funding •Owner, OPW - Implementor 		<ul style="list-style-type: none"> •Definition of GEP - EPA •Definition of needs - CFB, NPWS, OPW •Enforcement of new regulations/guidelines - Las •Funding for pilot measures implementation - DEHLG •Implementation sequencing - all owners •Implementation sequencing - LAs •LA resources - DEHLG •Legislation/guidance - DEHLG •Natural recovery - Nature •Planning - NPWS, LA, An Bord Plenala •Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater •Modernise Abstraction Legislation, including a system for licensing surface water abstractions 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

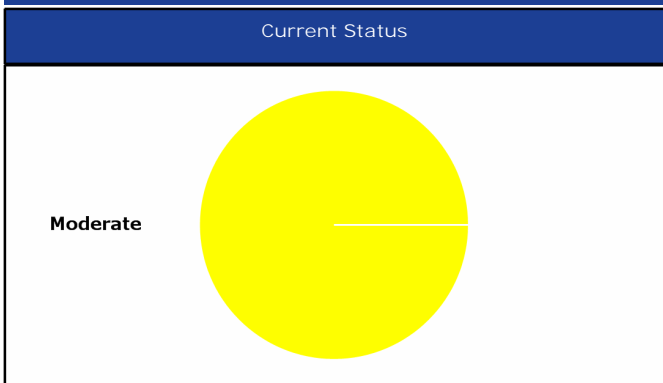
Mattock Water Management Unit



Symbols	Meaning
	County boundaries
	Water Management Unit of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Devlin (Mattock) Water Management Unit



Water Bodies in WMU	Current Status	Achieve Good Status by
Mattock1_Lower	Moderate	2021
Mattock3_Upper	Moderate	2021
MattockTRIB_Devlins	Moderate	2015
MattockTRIB_Monasterboice	Moderate	2027
MattockTRIB_Proudfootstown	Moderate	2027
MattockTRIB_Mooretown	Moderate	2027
Mattock2_Mid	Moderate	2021
WMU to Achieve Good Status by 2027		

Wastewater Treatment Plants

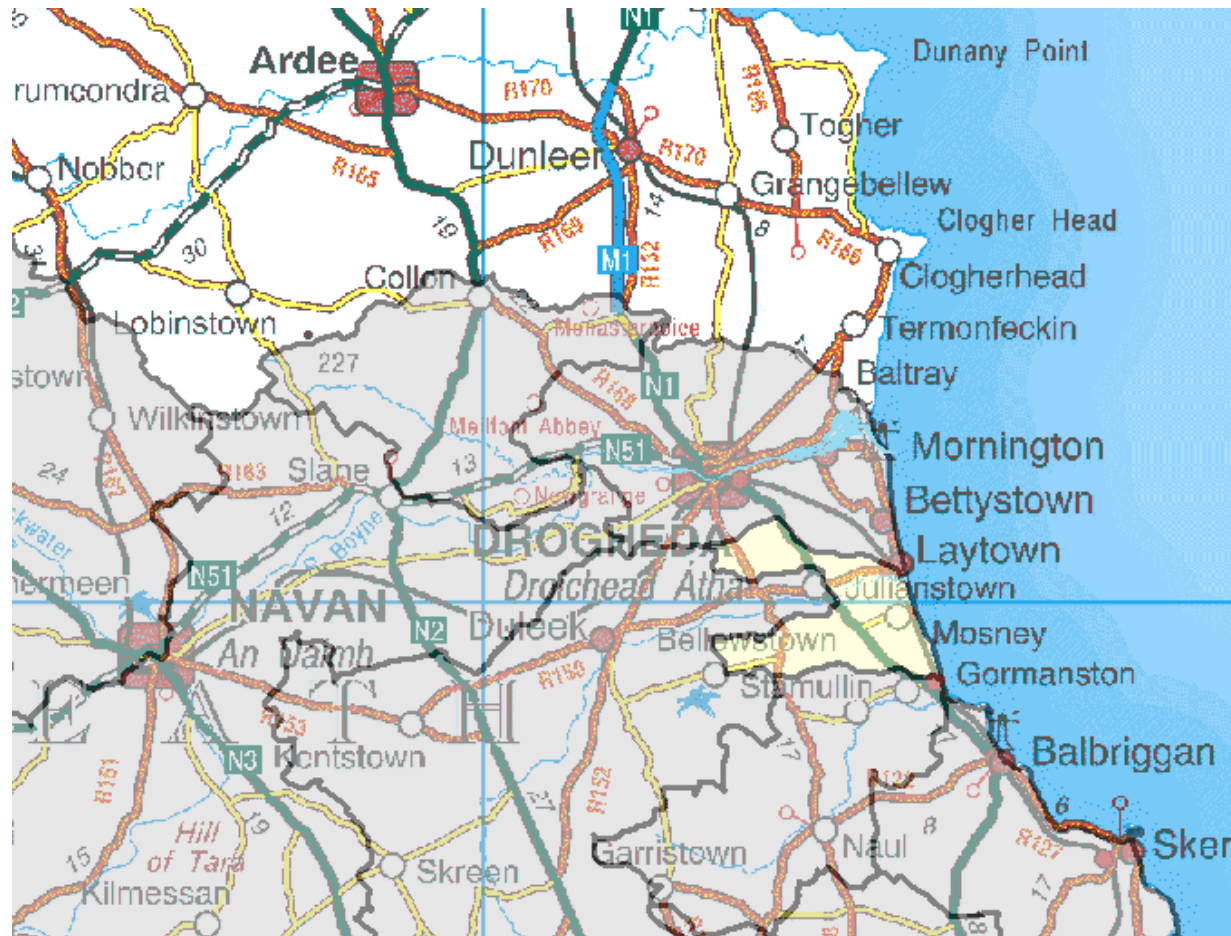
Collon WwTW



Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	70%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •DEHLG - Code of Good Practice and Guidelines on the use of Biosolids in Agriculture, 1999 •Further investigation/monitoring required •Restrict cattle access to rivers - Create cattle drinking points 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Cross Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Water Quality Dangerous Substances Regulations, 2001 •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	20%	<ul style="list-style-type: none"> •Local Government (Water Pollution) Act 1 of 1977 and amendments •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Emphasise linkages between Planning, Water Services, Transport and Environmental Sections within Local Authorities for planning purposes •Further investigation/monitoring required •Implement community digestors for alternative energy •Upgrade WWTW and Collecting Systems <2000 PE 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Carry out septic system inspections and upgrades •Enforce regulations on septic systems •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> •EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) •Foreshore Act (1933) •Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> •An Bord Pleanala, LA, CFB - Inspections •Courts - Enforcement •DEHLG, DEMNR, OPW - Grant Funding •EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency •OPW, EPA, DCMNR - Regulatory Agency •Owner - Funding •Owner, OPW - Implementor 	<ul style="list-style-type: none"> •Ensure compliance with OPW Environmental Drainage Maintenance Guidance Notes 	<ul style="list-style-type: none"> •Definition of GEP - EPA •Definition of needs - CFB, NPWS, OPW •Enforcement of new regulations/guidelines - Las •Funding for pilot measures implementation - DEHLG •Implementation sequencing - all owners •Implementation sequencing - LAs •LA resources - DEHLG •Legislation/guidance - DEHLG •Natural recovery - Nature •Planning - NPWS, LA, An Bord Plenala •Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater •Modernise Abstraction Legislation, including a system for licensing surface water abstractions •Record daily abstraction rates •Record daily water level 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

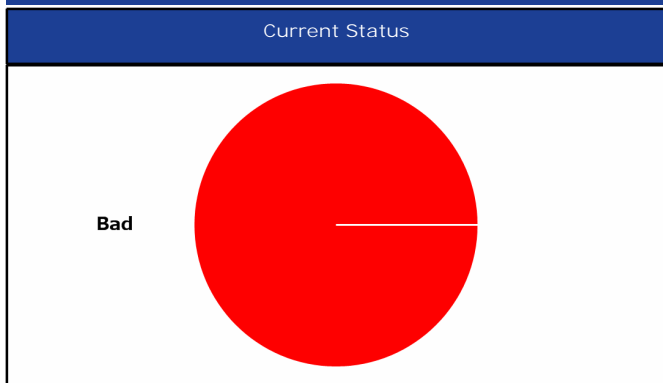
Mosney Water Management Unit



Symbols	Meaning
	County boundaries
	Water Management Unit of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Mosney Water Management Unit



Water Bodies in WMU	Current Status	Achieve Good Status by
Mosney1	Bad	2021
WMU to Achieve Good Status by 2021		

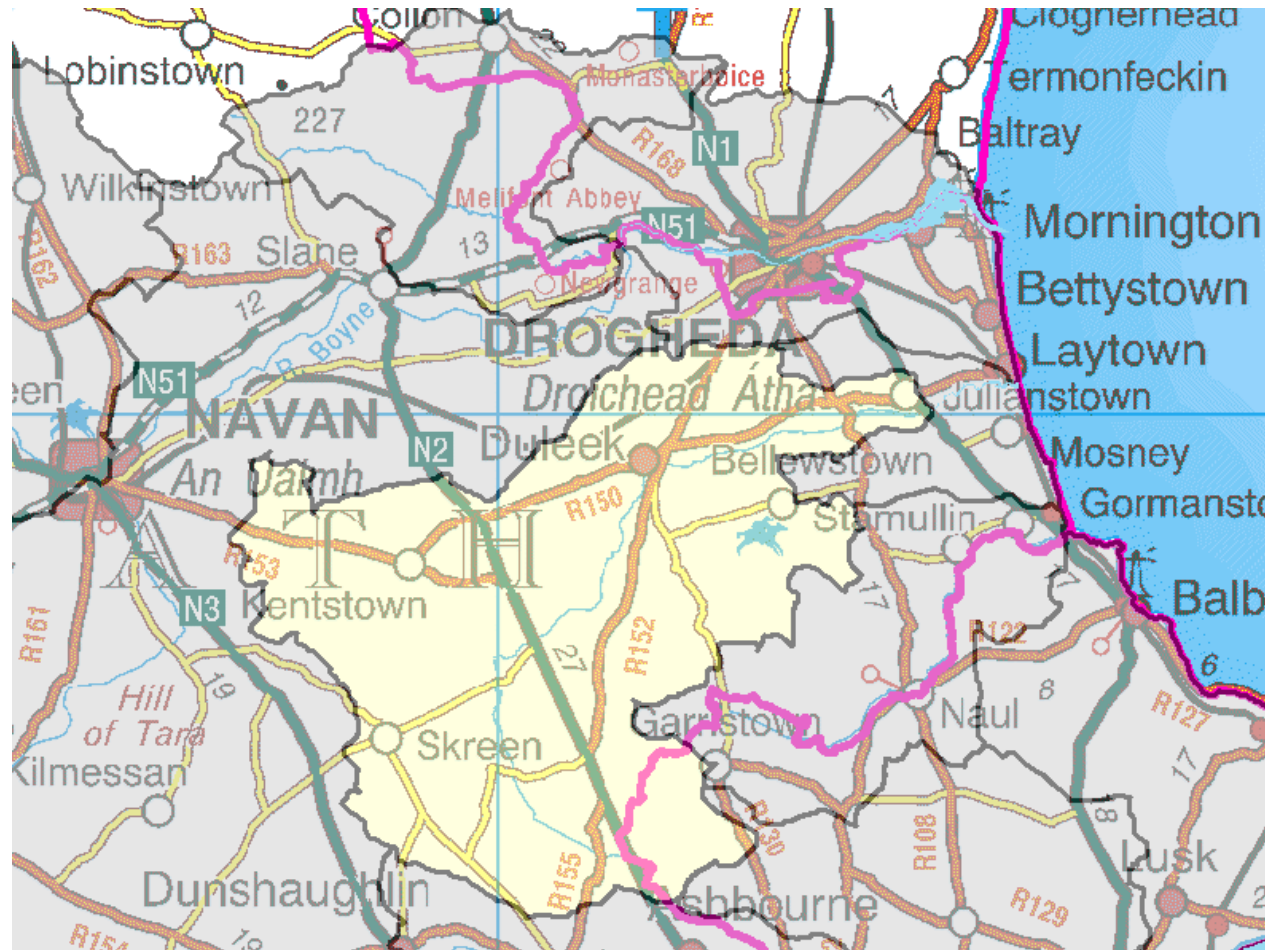
Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio-Chemical)	80%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •DEHLG - Code of Good Practice and Guidelines on the use of Biosolids in Agriculture, 1999 •Restrict cattle access to rivers - Create cattle drinking points 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •PCS - Principles for Good Plant Protection Practice 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 		<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 		<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

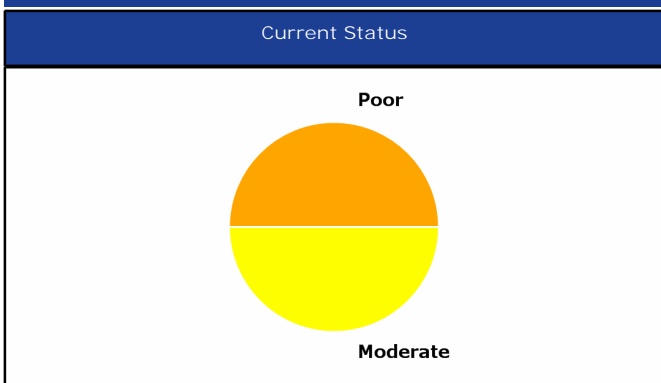
Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Local Government (Water Pollution) Act 1 of 1977 and amendments •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Emphasise linkages between Planning, Water Services, Transport and Environmental Sections within Local Authorities for planning purposes •Implement community digestors for alternative energy 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	20%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Enforce regulations on septic systems 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> •EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) •Foreshore Act (1933) •Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> •An Bord Pleanala, LA, CFB - Inspections •Courts - Enforcement •DEHLG, DEMNR, OPW - Grant Funding •EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency •OPW, EPA, DCMNR - Regulatory Agency •Owner - Funding •Owner, OPW - Implementor 		<ul style="list-style-type: none"> •Definition of GEP - EPA •Definition of needs - CFB, NPWS, OPW •Enforcement of new regulations/guidelines - Las •Funding for pilot measures implementation - DEHLG •Implementation sequencing - all owners •Implementation sequencing - LAs •LA resources - DEHLG •Legislation/guidance - DEHLG •Natural recovery - Nature •Planning - NPWS, LA, An Bord Plenala •Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater •Modernise Abstraction Legislation, including a system for licensing surface water abstractions 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Nanny Water Management Unit



Eastern River Basin Management Plan – Programme of Measures Summary Report

Nanny Water Management Unit



Water Bodies in WMU	Current Status	Achieve Good Status by	Water Bodies in WMU	Current Status	Achieve Good Status by
NannyTRIB_Bellewstown2_Upper	Moderate	2027	HurleyTRIB_Cushinstown1_Lower	Moderate	2027
NannyTRIB_Bellewstown1_Lower	Moderate	2027	Nanny3_Upper	Poor	2027
NannyTRIB_Hurley1_Lower	Moderate	2027	NannyTRIB_Hurley2_Mid	Poor	2027
HurleyTRIB_Scatternagh	Moderate	2027	NannyTRIB_Burtonstown	Poor	2027
Nanny2_Mid	Moderate	2027	NannyTRIB_Duleek	Poor	2027
NannyTRIB_Hurley3_Upper	Moderate	2027	NannyTRIB_Veldonstown	Poor	2027
WMU to Achieve Good Status by 2027			HurleyTRIB_Cushinstown2_Upper	Poor	2027

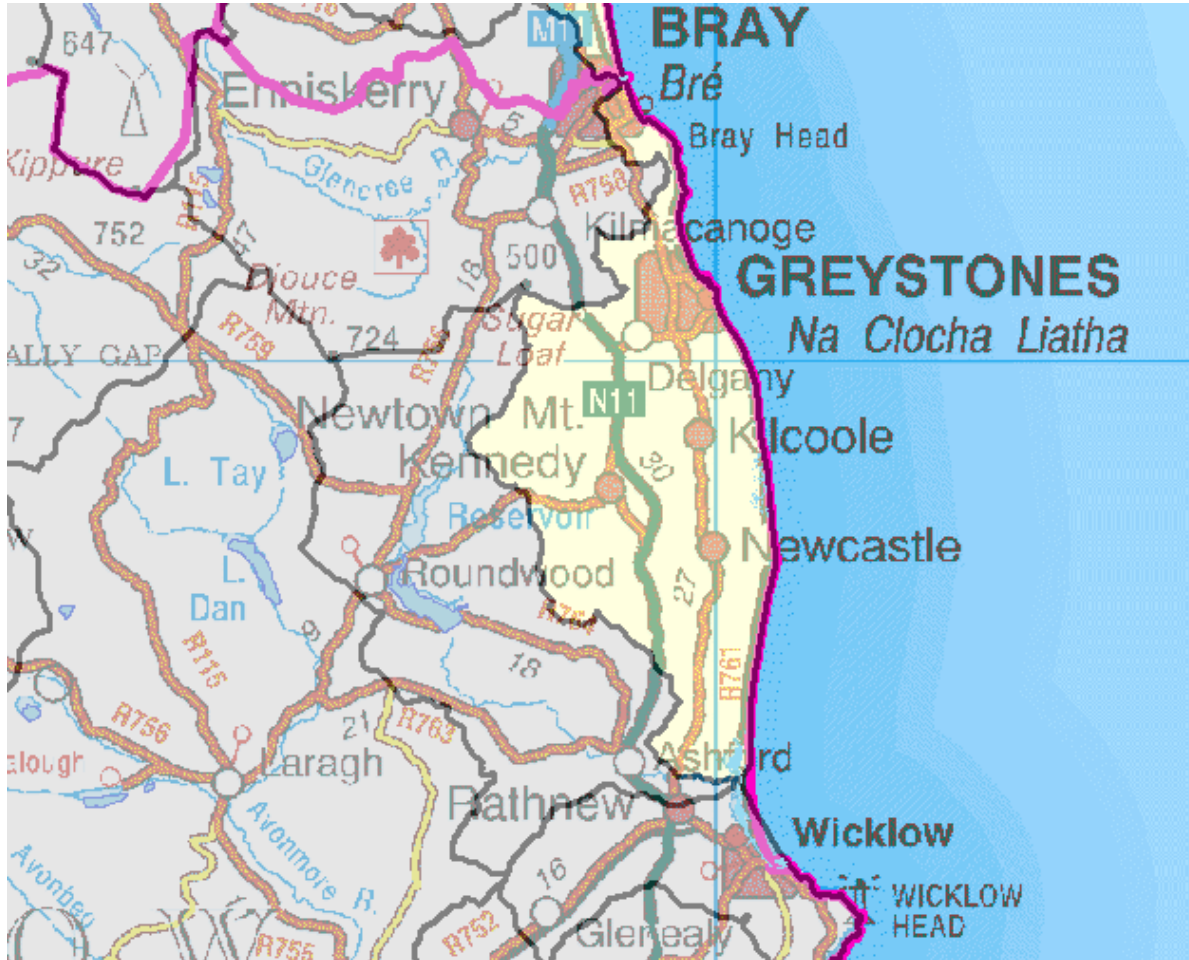
Wastewater Treatment Plants
Duleek WwTW
Julianstown WwTW
Kentstown WwTW



Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	60%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •DEHLG - Code of Good Practice and Guidelines on the use of Biosolids in Agriculture, 1999 •Further investigation/monitoring required •Restrict cattle access to rivers - Create cattle drinking points 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •PCS - Principles for Good Plant Protection Practice 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	20%	<ul style="list-style-type: none"> Local Government (Water Pollution) Act 1 of 1977 and amendments Urban Waste Water Treatment Regulations, 2001 - 2004 Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) Bathing Water Quality Regulations (S.I. 79 of 2008) Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) EPA (Licensing) Regulations, 1994 & 2004 EPA Waste (Licensing) Regulations, 2004 Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) Water Services Act 2007 	<ul style="list-style-type: none"> Courts - Enforcement DEHLG - Grant Funding (WSIP) DEHLG, EPA - Regulatory Agency EPA, LA - Inspections EPA, LA - Licensing Agency Plant owner - Funding Plant owner - Implementor 	<ul style="list-style-type: none"> Emphasise linkages between Planning, Water Services, Transport and Environmental Sections within Local Authorities for planning purposes Further investigation/monitoring required Implement community digestors for alternative energy Tertiary Treatment Upgrade WWTW and Collecting Systems <2000 PE 	<ul style="list-style-type: none"> Contract approval - DEHLG WSIP Funding, Owner funding Funding for pilot implementation - DEHLG Inclusion on WSIP planning list - DEHLG Licensing as necessary - EPA Operational improvements - Owner, operator Owner implementation - Owner Planning controls - LAs, An Bord Plenala Preparation of Water Services Strategic Plans - Local Authority Regulatory approvals - DEHLG, EPA WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	10%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement EPA Guidance LA - Inspections LA Bye Laws, LA Planning - Licensing Agency Owner - Implementor 	<ul style="list-style-type: none"> Develop septic system management programme Enforce regulations on septic systems Further investigation/monitoring required LAs to adopt a common register of approved site assessors and common code of practice for maintaining register LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections OSWTS risk matrices to be integrated into Development Plans and Local Area Plans 	<ul style="list-style-type: none"> Enforcement of new regulations/guidelines - Las Funding of pilot measures - DEHLG Legislation/guidance - DEHLG/EPA Local Authority Resources - DEHLG Natural recovery - Nature Owner funding - Owner Programme implementation sequencing - LAs Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) Foreshore Act (1933) Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> An Bord Pleanala, LA, CFB - Inspections Courts - Enforcement DEHLG, DEMNR, OPW - Grant Funding EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency OPW, EPA, DCMNR - Regulatory Agency Owner - Funding Owner, OPW - Implementor 		<ul style="list-style-type: none"> Definition of GEP - EPA Definition of needs - CFB, NPWS, OPW Enforcement of new regulations/guidelines - Las Funding for pilot measures implementation - DEHLG Implementation sequencing - all owners Implementation sequencing - LAs LA resources - DEHLG Legislation/guidance - DEHLG Natural recovery - Nature Planning - NPWS, LA, An Bord Plenala Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> National Water Pricing Policy Framework (1998) Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) Water Supplies Act 1942 	<ul style="list-style-type: none"> Abstractor - Implementor An Bord Plenala, LA, DEMNR - Planning Courts - Enforcement DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) EPA, DEMNR - Regulatory Agency EPA, LA - Inspections EPA, LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater Modernise Abstraction Legislation, including a system for licensing surface water abstractions 	<ul style="list-style-type: none"> Enforcement - EPA Evaluation methodology - DEHLG, EPA Funding - DEHLG Natural recovery time - Nature New Regulations - DEHLG Sequencing of implementation - All listed Agencies

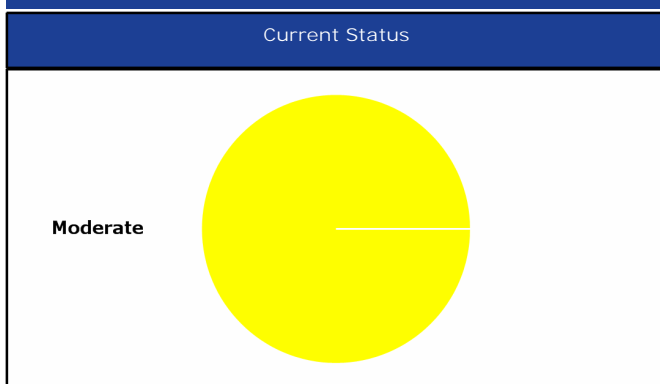
Newcastle Water Management Unit



Symbols	Meaning
	County boundaries
	Water Management Unit of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Newcastle Water Management Unit



Water Bodies in WMU	Current Status	Achieve Good Status by
Kilmartin2_Upper	Moderate	2027
Delgany1	Moderate	2021
Newtownmountkennedy1	Moderate	2021
Newcastle1	Moderate	2021
Kilmartin1_Lower	Moderate	2027
WMU to Achieve Good Status by 2027		

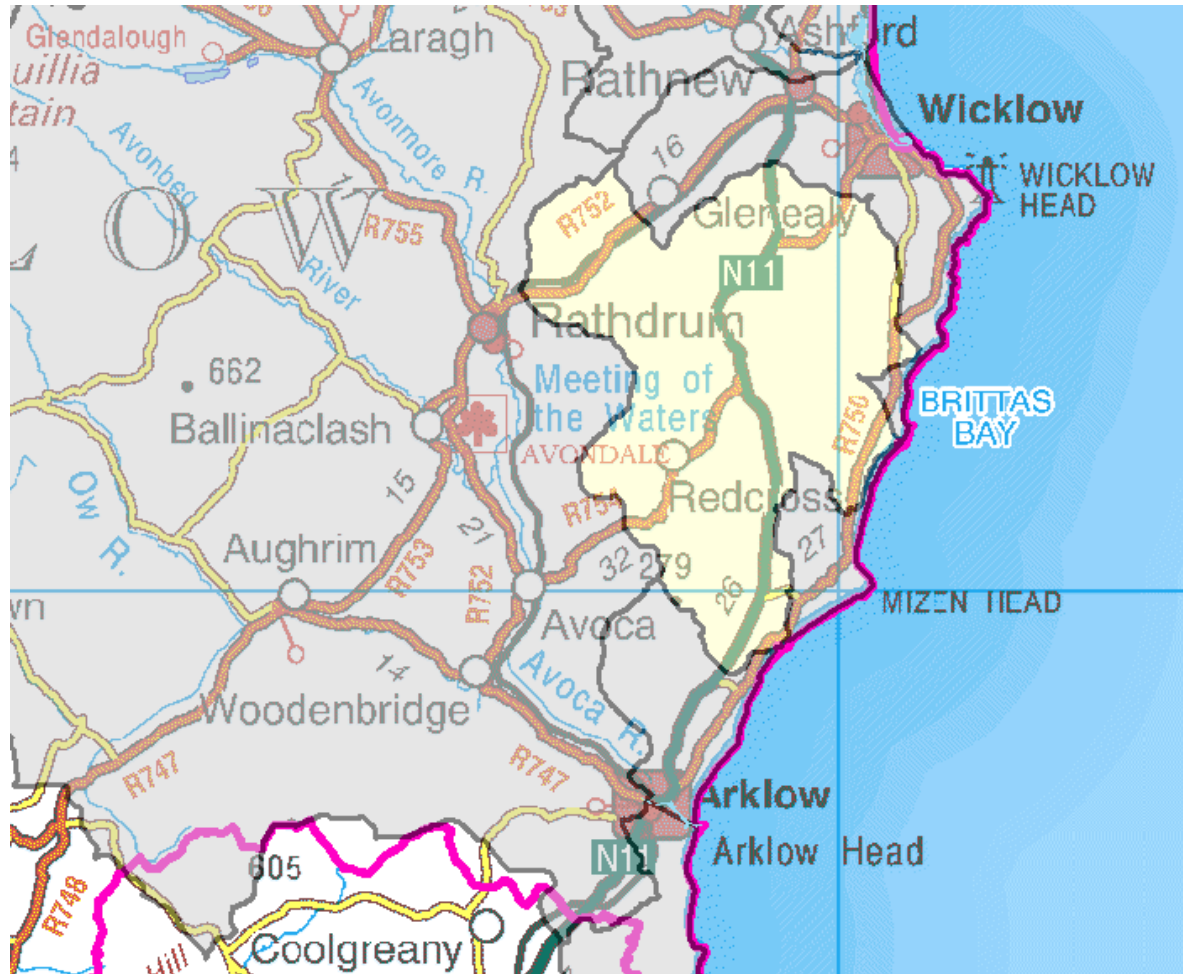
Wastewater Treatment Plants
Newcastle WwTW



Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Restrict cattle access to rivers - Create cattle drinking points 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Diffuse Runoff (Urban) - Gullies Management •Diffuse Runoff (Urban) - Implement SUDS (Including Green Roofs Guidance) •Diffuse Runoff (Urban) - Street Cleaning Programme •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	80%	<ul style="list-style-type: none"> Local Government (Water Pollution) Act 1 of 1977 and amendments Bathing Water Quality Regulations (S.I. 79 of 2008) Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) EPA (Licensing) Regulations, 1994 & 2004 EPA Waste (Licensing) Regulations, 2004 Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) Urban Waste Water Treatment Regulations, 2001 - 2004 Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) Water Services Act 2007 	<ul style="list-style-type: none"> Courts - Enforcement DEHLG - Grant Funding (WSIP) DEHLG, EPA - Regulatory Agency EPA, LA - Inspections EPA, LA - Licensing Agency Plant owner - Funding Plant owner - Implementor 	<ul style="list-style-type: none"> Assess CSO and Water Quality Impact from Urban Pressures Collection System - Upgrades and rehabilitation Diffuse Runoff (Urban) - Gullies Management Diffuse Runoff (Urban) - Implement SUDS (Including Green Roofs Guidance) Diffuse Runoff (Urban) - Street Cleaning Programme Emphasise linkages between Planning, Water Services, Transport and Environmental Sections within Local Authorities for planning purposes Further investigation/monitoring required Implement community digestors for alternative energy Investigate and eliminate misconnections Upgrade WWTW and Collecting Systems <2000 PE 	<ul style="list-style-type: none"> Contract approval - DEHLG WSIP Funding, Owner funding Funding for pilot implementation - DEHLG Inclusion on WSIP planning list - DEHLG Licensing as necessary - EPA Operational improvements - Owner, operator Owner implementation - Owner Planning controls - LAs, An Bord Plenala Preparation of Water Services Strategic Plans - Local Authority Regulatory approvals - DEHLG, EPA WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement EPA Guidance LA - Inspections LA Bye Laws, LA Planning - Licensing Agency Owner - Implementor 	<ul style="list-style-type: none"> Carry out septic system inspections and upgrades Further investigation/monitoring required 	<ul style="list-style-type: none"> Enforcement of new regulations/guidelines - Las Funding of pilot measures - DEHLG Legislation/guidance - DEHLG/EPA Local Authority Resources - DEHLG Natural recovery - Nature Owner funding - Owner Programme implementation sequencing - LAs Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) Foreshore Act (1933) Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> An Bord Pleanala, LA, CFB - Inspections Courts - Enforcement DEHLG, DEMNR, OPW - Grant Funding EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency OPW, EPA, DCMNR - Regulatory Agency Owner - Funding Owner, OPW - Implementor 	<ul style="list-style-type: none"> Further investigation/monitoring required 	<ul style="list-style-type: none"> Definition of GEP - EPA Definition of needs - CFB, NPWS, OPW Enforcement of new regulations/guidelines - Las Funding for pilot measures implementation - DEHLG Implementation sequencing - all owners Implementation sequencing - LAs LA resources - DEHLG Legislation/guidance - DEHLG Natural recovery - Nature Planning - NPWS, LA, An Bord Plenala Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> National Water Pricing Policy Framework (1998) Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) Water Supplies Act 1942 	<ul style="list-style-type: none"> Abstractor - Implementor An Bord Plenala, LA, DEMNR - Planning Courts - Enforcement DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) EPA, DEMNR - Regulatory Agency EPA, LA - Inspections EPA, LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater Modernise Abstraction Legislation, including a system for licensing surface water abstractions 	<ul style="list-style-type: none"> Enforcement - EPA Evaluation methodology - DEHLG, EPA Funding - DEHLG Natural recovery time - Nature New Regulations - DEHLG Sequencing of implementation - All listed Agencies

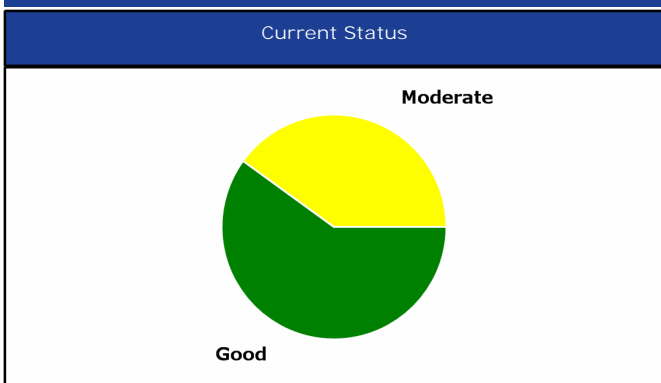
Potters Water Management Unit



Symbols	Meaning
	County boundaries
	Water Management Unit of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Potters Water Management Unit



Water Bodies in WMU	Current Status	Achieve Good Status by
ThreeMileWater1	Good	2009
Potters1	Good	2009
RedcrossTRIB_Ballymoyle	Good	2009
Redcross1_Lower	Moderate	2021
Redcross2_Upper	Moderate	2021
WMU to Achieve Good Status by 2021		

Wastewater Treatment Plants

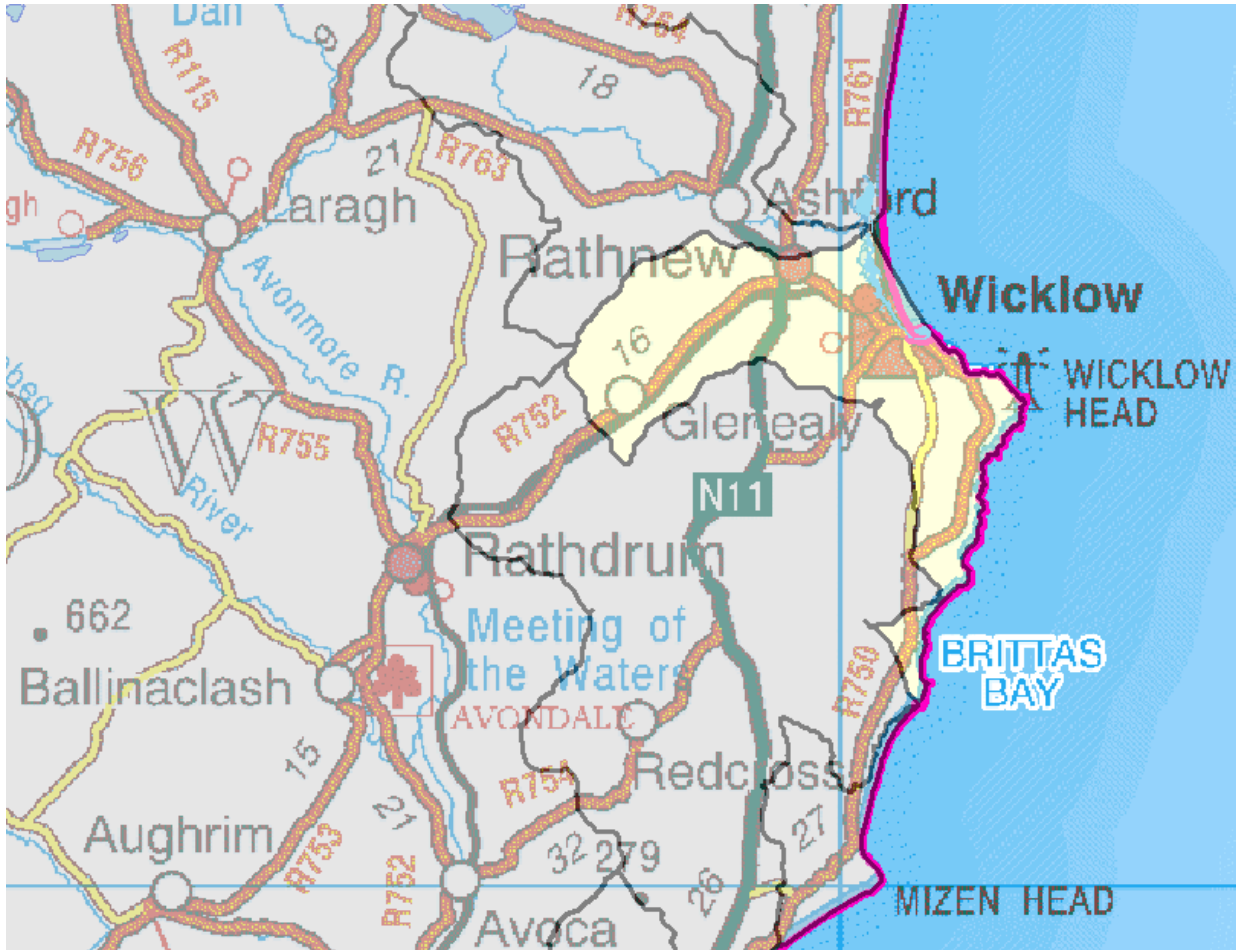
Barndarrig WwTW
Redcross WwTW



Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio-Chemical)	50%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Restrict cattle access to rivers - Create cattle drinking points 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio- Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Diffuse Runoff (Urban) - Implement SUDS (Including Green Roofs Guidance) •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio- Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio- Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Mitigate impact of quarry activities 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	40%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Diffuse Runoff (Urban) - Implement SUDS (Including Green Roofs Guidance) •Emphasise linkages between Planning, Water Services, Transport and Environmental Sections within Local Authorities for planning purposes •Further investigation/monitoring required •Implement community digestors for alternative energy •Upgrade WWTW and Collecting Systems <2000 PE 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	10%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Carry out septic system inspections and upgrades •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> •EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) •Foreshore Act (1933) •Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> •An Bord Pleanala, LA, CFB - Inspections •Courts - Enforcement •DEHLG, DEMNR, OPW - Grant Funding •EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency •OPW, EPA, DCMNR - Regulatory Agency •Owner - Funding •Owner, OPW - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Definition of GEP - EPA •Definition of needs - CFB, NPWS, OPW •Enforcement of new regulations/guidelines - Las •Funding for pilot measures implementation - DEHLG •Implementation sequencing - all owners •Implementation sequencing - LAs •LA resources - DEHLG •Legislation/guidance - DEHLG •Natural recovery - Nature •Planning - NPWS, LA, An Bord Plenala •Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater •Modernise Abstraction Legislation, including a system for licensing surface water abstractions 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

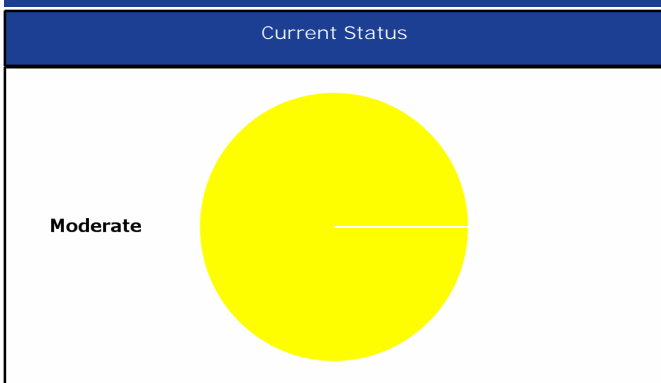
Rathnew Water Management Unit



Symbols	Meaning
	County boundaries
	Water Management Unit of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Rathnew Water Management Unit



Water Bodies in WMU	Current Status	Achieve Good Status by
RathnewTRIB_Ballinalea	Moderate	2027
Rathnew1_Lower	Moderate	2027
Rathnew2_Upper	Moderate	2021
WMU to Achieve Good Status by 2027		

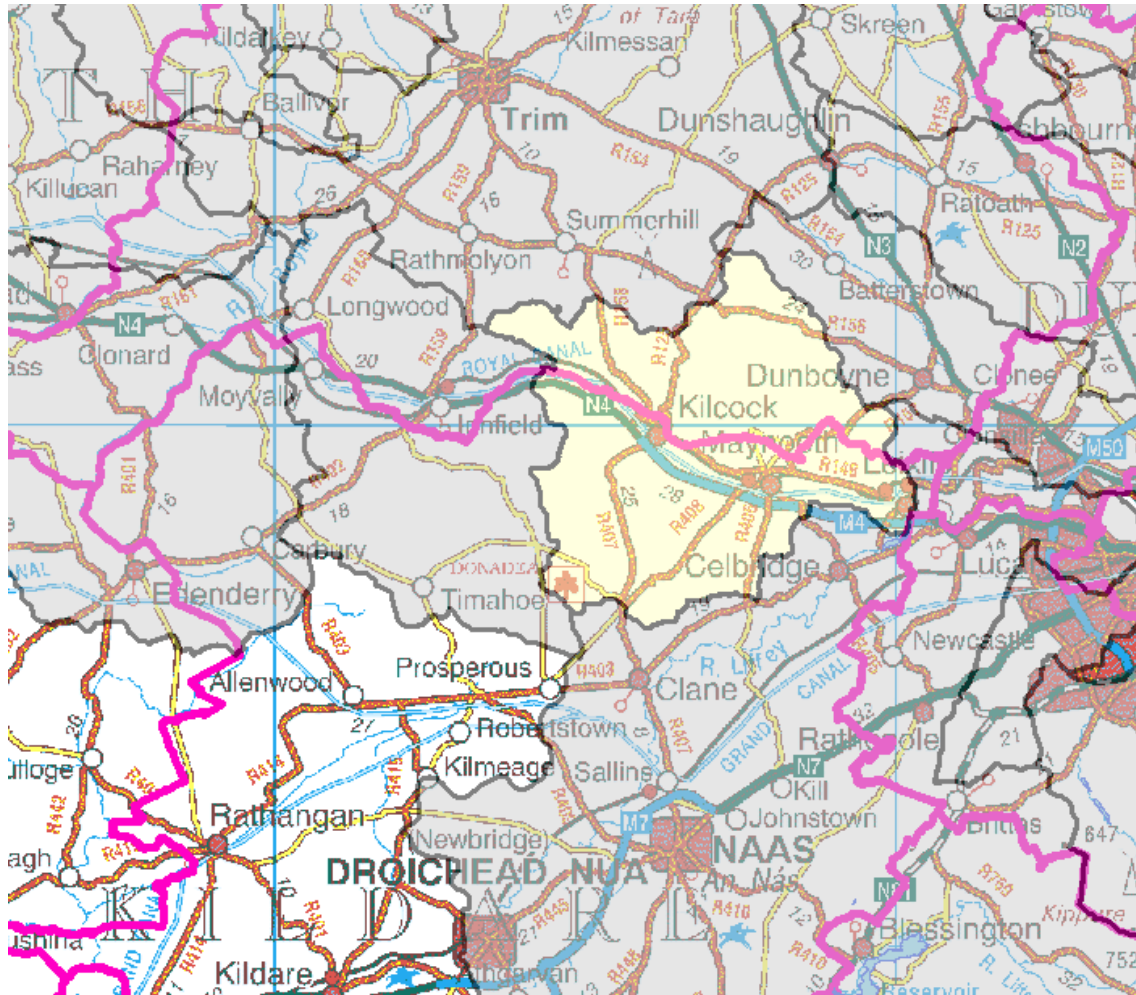
Wastewater Treatment Plants
Glenealy WwTW
Rathnew WwTW



Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio-Chemical)	10%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Restrict cattle access to rivers - Create cattle drinking points 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	80%	<ul style="list-style-type: none"> •Local Government (Water Pollution) Act 1 of 1977 and amendments •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Emphasise linkages between Planning, Water Services, Transport and Environmental Sections within Local Authorities for planning purposes •Further investigation/monitoring required •Implement community digestors for alternative energy •Implement SUDS •Upgrade WWTW and Collecting Systems <2000 PE 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Carry out septic system inspections and upgrades •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> •EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) •Foreshore Act (1933) •Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> •An Bord Pleanala, LA, CFB - Inspections •Courts - Enforcement •DEHLG, DEMNR, OPW - Grant Funding •EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency •OPW, EPA, DCMNR - Regulatory Agency •Owner - Funding •Owner, OPW - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Definition of GEP - EPA •Definition of needs - CFB, NPWS, OPW •Enforcement of new regulations/guidelines - Las •Funding for pilot measures implementation - DEHLG •Implementation sequencing - all owners •Implementation sequencing - LAs •LA resources - DEHLG •Legislation/guidance - DEHLG •Natural recovery - Nature •Planning - NPWS, LA, An Bord Plenala •Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater •Modernise Abstraction Legislation, including a system for licensing surface water abstractions 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

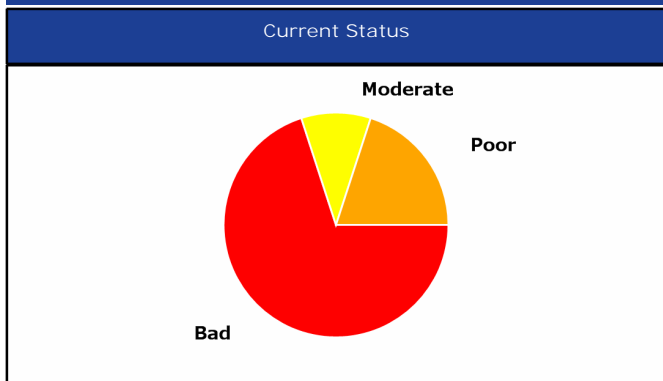
Ryewater Water Management Unit



Symbols	Meaning
	County boundaries
	Water Management Unit of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Ryewater Water Management Unit



Water Bodies in WMU	Current Status	Achieve Good Status by	Water Bodies in WMU	Current Status	Achieve Good Status by
RyeWaterTRIB_Porterstown	Bad	2027	RyeWater1_Lower	Bad	2027
LyreenTRIB_Clonshanbo	Bad	2021	RyeWaterTRIB_Carton	Bad	2027
RyeWaterTRIB_Kellystown	Bad	2027	RyeWaterTRIB_Lyreen1_Lower	Bad	2021
RyeWater3_Upper	Bad	2027	RyeWaterTRIB_Lyreen2_Upper	Moderate	2021
WMU to Achieve Good Status by 2027			RyeWaterTRIB_Brides	Poor	2021

Wastewater Treatment Plants

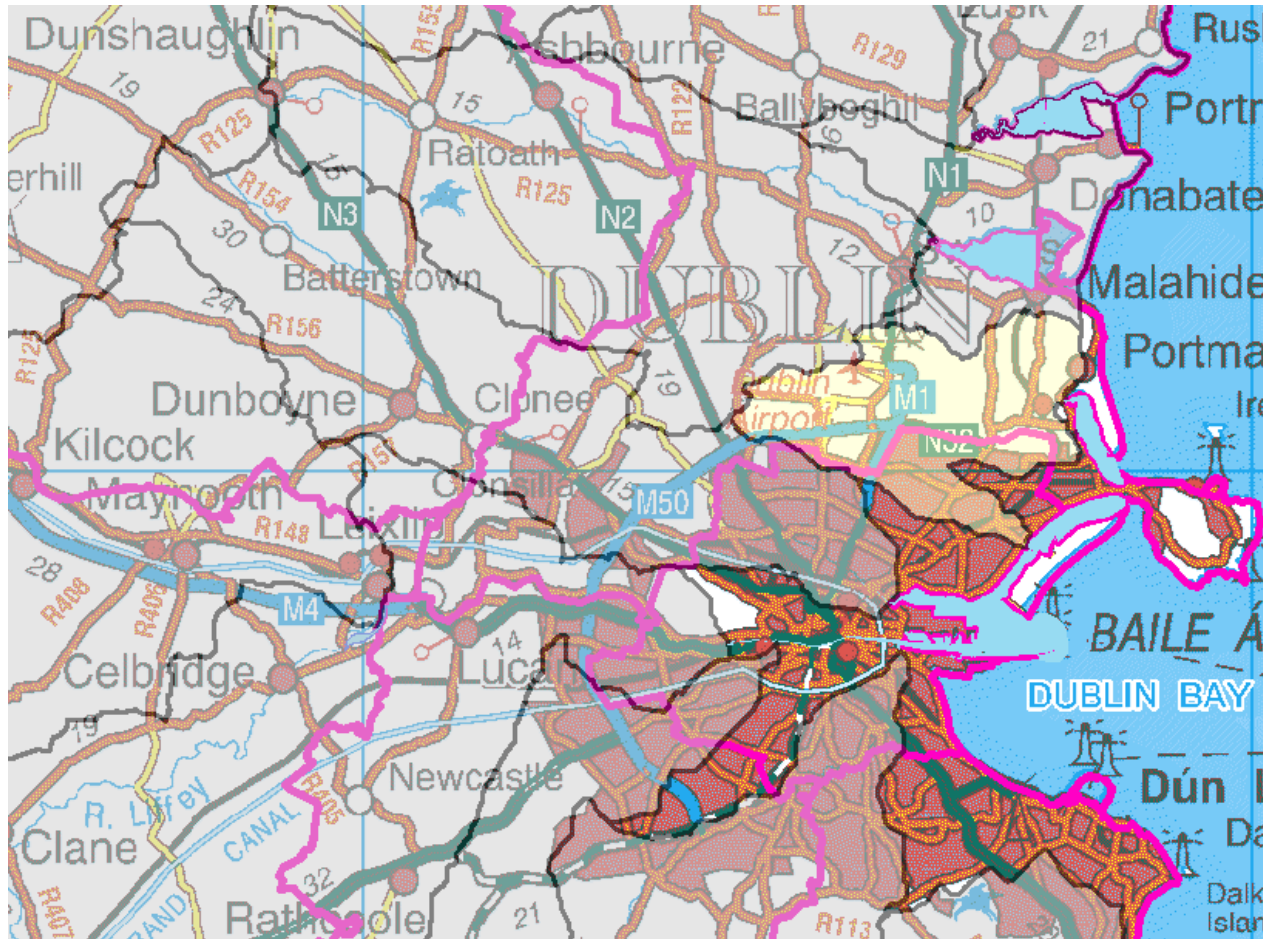
Rathcoffey WwTW



Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	70%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Planning Development Acts 2000 - 2006 •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •DEHLG - Code of Good Practice and Guidelines on the use of Biosolids in Agriculture, 1999 •Further investigation/monitoring required •Restrict cattle access to rivers - Create cattle drinking points 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Planning Development Acts 2000 - 2006 •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •Planning Development Acts 2000 - 2006 •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •Planning Development Acts 2000 - 2006 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	20%	<ul style="list-style-type: none"> Local Government (Water Pollution) Act 1 of 1977 and amendments Planning Development Acts 2000 - 2006 Urban Waste Water Treatment Regulations, 2001 - 2004 Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) Bathing Water Quality Regulations (S.I. 79 of 2008) Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) EPA (Licensing) Regulations, 1994 & 2004 EPA Waste (Licensing) Regulations, 2004 Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) Planning and Development Regulations 2001 - 2007 Protection of Groundwater Regulations (S.I. 41 of 1999) Water Services Act 2007 	<ul style="list-style-type: none"> Courts - Enforcement DEHLG - Grant Funding (WSIP) DEHLG, EPA - Regulatory Agency EPA, LA - Inspections EPA, LA - Licensing Agency Plant owner - Funding Plant owner - Implementor 	<ul style="list-style-type: none"> Emphasise linkages between Planning, Water Services, Transport and Environmental Sections within Local Authorities for planning purposes Further investigation/monitoring required Implement community digestors for alternative energy Implement Fats, Oils and Grease Programme 	<ul style="list-style-type: none"> Contract approval - DEHLG WSIP Funding, Owner funding Funding for pilot implementation - DEHLG Inclusion on WSIP planning list - DEHLG Licensing as necessary - EPA Operational improvements - Owner, operator Owner implementation - Owner Planning controls - LAs, An Bord Plenala Preparation of Water Services Strategic Plans - Local Authority Regulatory approvals - DEHLG, EPA WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	10%	<ul style="list-style-type: none"> Planning Development Acts 2000 - 2006 Bathing Water Quality Regulations (S.I. 79 of 2008) EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) Planning and Development Regulations 2001 - 2007 Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement EPA Guidance LA - Inspections LA Bye Laws, LA Planning - Licensing Agency Owner - Implementor 	<ul style="list-style-type: none"> Enforce regulations on septic systems Further investigation/monitoring required Increase public awareness LAs to adopt a common register of approved site assessors and common code of practice for maintaining register LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections OSWTS risk matrices to be integrated into Development Plans and Local Area Plans 	<ul style="list-style-type: none"> Enforcement of new regulations/guidelines - Las Funding of pilot measures - DEHLG Legislation/guidance - DEHLG/EPA Local Authority Resources - DEHLG Natural recovery - Nature Owner funding - Owner Programme implementation sequencing - LAs Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) Foreshore Act (1933) Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> An Bord Pleanala, LA, CFB - Inspections Courts - Enforcement DEHLG, DEMNR, OPW - Grant Funding EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency OPW, EPA, DCMNR - Regulatory Agency Owner - Funding Owner, OPW - Implementor 	<ul style="list-style-type: none"> Ensure compliance with OPW Environmental Drainage Maintenance Guidance Notes 	<ul style="list-style-type: none"> Definition of GEP - EPA Definition of needs - CFB, NPWS, OPW Enforcement of new regulations/guidelines - Las Funding for pilot measures implementation - DEHLG Implementation sequencing - all owners Implementation sequencing - LAs LA resources - DEHLG Legislation/guidance - DEHLG Natural recovery - Nature Planning - NPWS, LA, An Bord Plenala Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> National Water Pricing Policy Framework (1998) Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) Water Supplies Act 1942 	<ul style="list-style-type: none"> Abstractor - Implementor An Bord Plenala, LA, DEMNR - Planning Courts - Enforcement DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) EPA, DEMNR - Regulatory Agency EPA, LA - Inspections EPA, LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater Modernise Abstraction Legislation, including a system for licensing surface water abstractions 	<ul style="list-style-type: none"> Enforcement - EPA Evaluation methodology - DEHLG, EPA Funding - DEHLG Natural recovery time - Nature New Regulations - DEHLG Sequencing of implementation - All listed Agencies

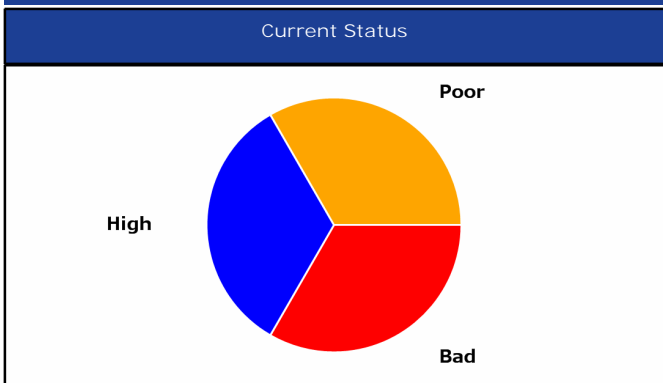
Santry Mayne Sluice Water Management Unit



Symbols	Meaning
	County boundaries
	Water Management Unit of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Santry_Mayne_Sluice Water Management Unit



Water Bodies in WMU	Current Status	Achieve Good Status by
Santry1	Bad	2027
Sluice1	High	2009
Mayne1	Poor	2027
WMU to Achieve Good Status by 2027		

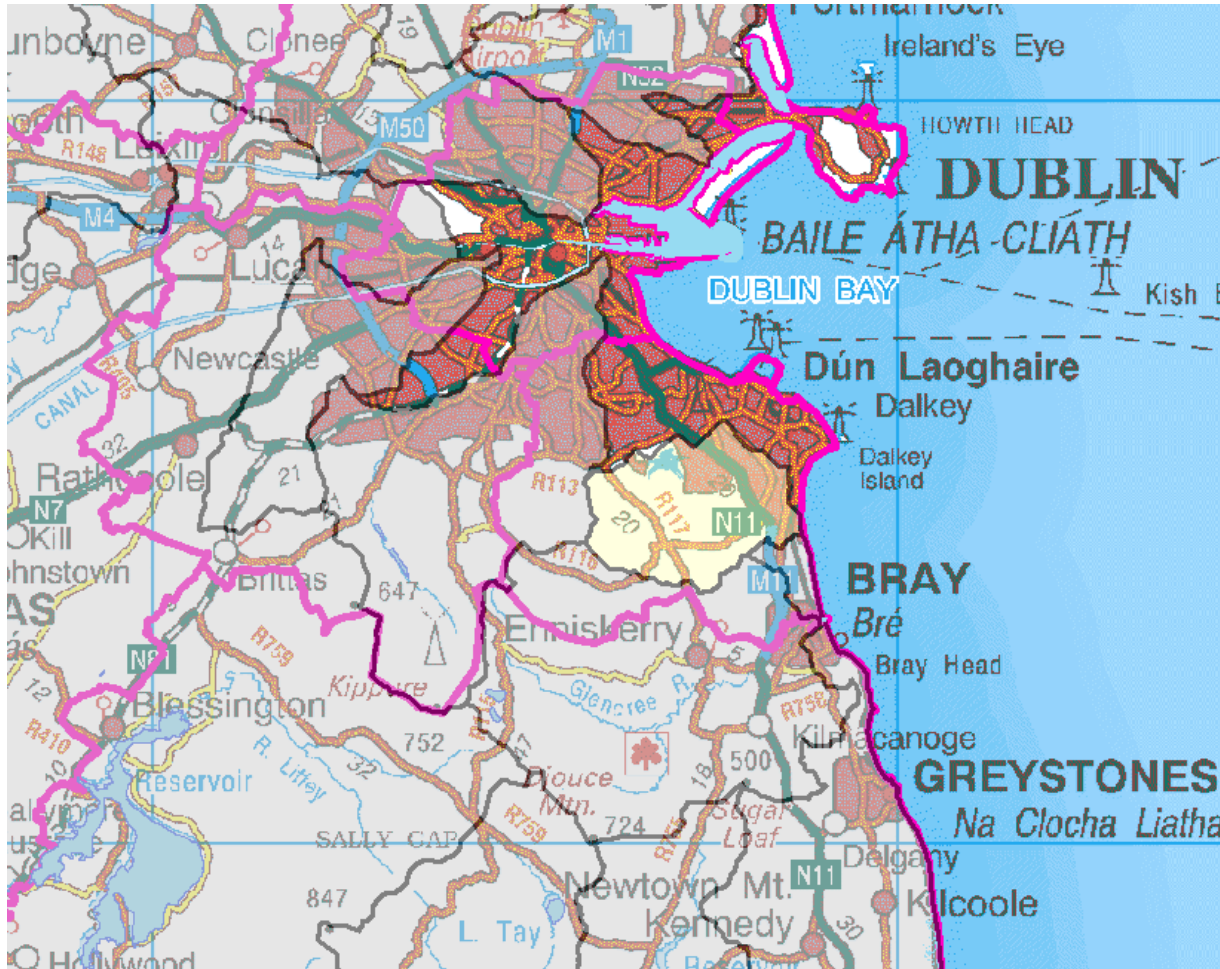
Wastewater Treatment Plants
Balgriffin WwTW



Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	20%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Planning and Development Regulations 2001 - 2007 •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Implement upstream Programmes of Measures •Restrict cattle access to rivers - Create cattle drinking points 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EPA (Licensing) Regulations, 1994 & 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Planning and Development Regulations 2001 - 2007 •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Diffuse Runoff (Urban) - Gullies Management •Diffuse Runoff (Urban) - Implement SUDS (Including Green Roofs Guidance) •Diffuse Runoff (Urban) - Storm sewers separation and qualitative improvement •Further investigation/monitoring required •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •Planning and Development Regulations 2001 - 2007 •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •Planning and Development Regulations 2001 - 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	60%	<ul style="list-style-type: none"> EPA (Licensing) Regulations, 1994 & 2004 Local Government (Water Pollution) Act 1 of 1977 and amendments Planning and Development Regulations 2001 - 2007 Urban Waste Water Treatment Regulations, 2001 - 2004 Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) Bathing Water Quality Regulations (S.I. 79 of 2008) Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) EPA Waste (Licensing) Regulations, 2004 Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) Water Services Act 2007 	<ul style="list-style-type: none"> Courts - Enforcement DEHLG - Grant Funding (WSIP) DEHLG, EPA - Regulatory Agency EPA, LA - Inspections EPA, LA - Licensing Agency Plant owner - Funding Plant owner - Implementor 	<ul style="list-style-type: none"> Assess CSO and Water Quality Impact from Urban Pressures Collection system - Network management & operations programme Collection System - Upgrades and rehabilitation Diffuse Runoff (Urban) - Gullies Management Diffuse Runoff (Urban) - Implement SUDS (Including Green Roofs Guidance) Diffuse Runoff (Urban) - Storm sewers separation and qualitative improvement Emphasise linkages between Planning, Water Services, Transport and Environmental Sections within Local Authorities for planning purposes Further investigation/monitoring required Implement Fats, Oils and Grease Programme Implement upstream Programmes of Measures Investigate and eliminate misconnections 	<ul style="list-style-type: none"> Contract approval - DEHLG WSIP Funding, Owner funding Funding for pilot implementation - DEHLG Inclusion on WSIP planning list - DEHLG Licensing as necessary - EPA Operational improvements - Owner, operator Owner implementation - Owner Planning controls - LAs, An Bord Plenala Preparation of Water Services Strategic Plans - Local Authority Regulatory approvals - DEHLG, EPA WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	20%	<ul style="list-style-type: none"> Planning and Development Regulations 2001 - 2007 Bathing Water Quality Regulations (S.I. 79 of 2008) EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement EPA Guidance LA - Inspections LA Bye Laws, LA Planning - Licensing Agency Owner - Implementor 	<ul style="list-style-type: none"> Carry out septic system inspections and upgrades Develop septic system management programme Further investigation/monitoring required Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> Enforcement of new regulations/guidelines - Las Funding of pilot measures - DEHLG Legislation/guidance - DEHLG/EPA Local Authority Resources - DEHLG Natural recovery - Nature Owner funding - Owner Programme implementation sequencing - LAs Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> Planning and Development Regulations 2001 - 2007 EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) Foreshore Act (1933) 	<ul style="list-style-type: none"> An Bord Pleanala, LA, CFB - Inspections Courts - Enforcement DEHLG, DEMNR, OPW - Grant Funding EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency OPW, EPA, DCMNR - Regulatory Agency Owner - Funding Owner, OPW - Implementor 	<ul style="list-style-type: none"> Apply Heavily Modified Waterbody Measures (See External Document) 	<ul style="list-style-type: none"> Definition of GEP - EPA Definition of needs - CFB, NPWS, OPW Enforcement of new regulations/guidelines - Las Funding for pilot measures implementation - DEHLG Implementation sequencing - all owners Implementation sequencing - LAs LA resources - DEHLG Legislation/guidance - DEHLG Natural recovery - Nature Planning - NPWS, LA, An Bord Plenala Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> National Water Pricing Policy Framework (1998) Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) Water Supplies Act 1942 	<ul style="list-style-type: none"> Abstractor - Implementor An Bord Plenala, LA, DEMNR - Planning Courts - Enforcement DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) EPA, DEMNR - Regulatory Agency EPA, LA - Inspections EPA, LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater Modernise Abstraction Legislation, including a system for licensing surface water abstractions 	<ul style="list-style-type: none"> Enforcement - EPA Evaluation methodology - DEHLG, EPA Funding - DEHLG Natural recovery time - Nature New Regulations - DEHLG Sequencing of implementation - All listed Agencies

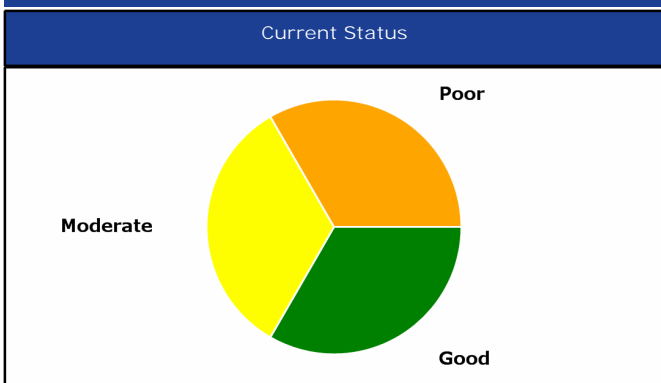
Shanganagh Water Management Unit



Symbols	Meaning
	County boundaries
	Water Management Unit of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Shanganagh Water Management Unit



Water Bodies in WMU	Current Status	Achieve Good Status by
Loughlinstown2_Upper	Good	2009
LoughlinstownTRIB_Carrickmines	Moderate	2021
Loughlinstown1_Lower	Poor	2021

WMU to Achieve Good Status by 2021

Wastewater Treatment Plants

None.

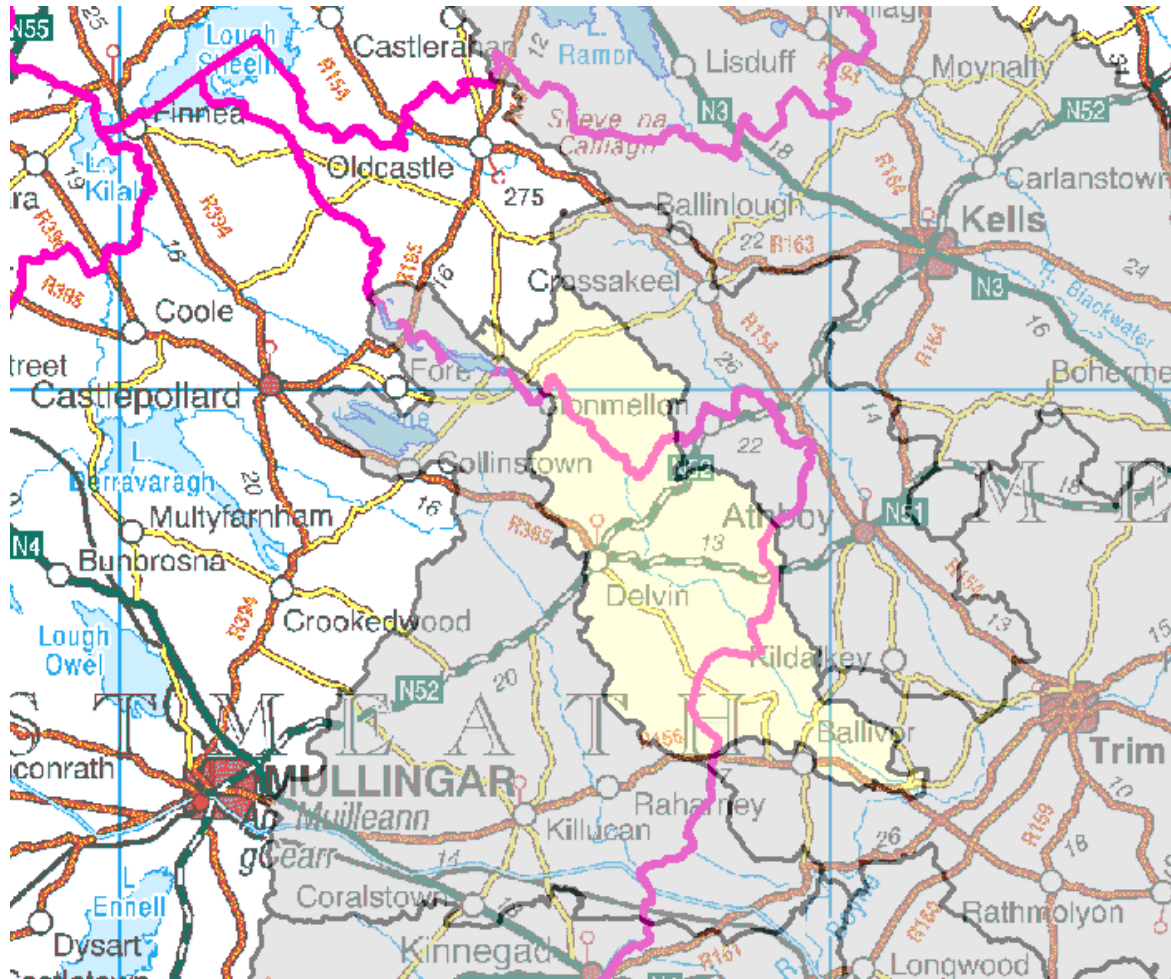
Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Planning and Development Regulations 2001 - 2007 •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •River Polishing - Reed Bed 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies



Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EPA (Licensing) Regulations, 1994 & 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Planning and Development Regulations 2001 - 2007 •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •River Polishing - Reed Bed 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •Planning and Development Regulations 2001 - 2007 •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •River Polishing - Reed Bed 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	10%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •Planning and Development Regulations 2001 - 2007 •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •River Polishing - Reed Bed 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	70%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EPA (Licensing) Regulations, 1994 & 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Planning and Development Regulations 2001 - 2007 •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •CSOs to comply with GSDSDS recommendations •Emphasise linkages between Planning, Water Services, Transport and Environmental Sections within Local Authorities for planning purposes •Implement Fats, Oils and Grease Programme •Investigate and eliminate misconnections •River Polishing - Reed Bed 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •Planning and Development Regulations 2001 - 2007 •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •River Polishing - Reed Bed 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> •EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) •Planning and Development Regulations 2001 - 2007 •Foreshore Act (1933) 	<ul style="list-style-type: none"> •An Bord Pleanala, LA, CFB - Inspections •Courts - Enforcement •DEHLG, DEMNR, OPW - Grant Funding •EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency •OPW, EPA, DCMNR - Regulatory Agency •Owner - Funding •Owner, OPW - Implementor 	<ul style="list-style-type: none"> •Address diffuse silt pollution from green field site development •Facilitate fish migration •Introduce soft edges to inferior habitats •Preserve and/or restore banks •Survey Banks/Coast 	<ul style="list-style-type: none"> •Definition of GEP - EPA •Definition of needs - CFB, NPWS, OPW •Enforcement of new regulations/guidelines - Las •Funding for pilot measures implementation - DEHLG •Implementation sequencing - all owners •Implementation sequencing - LAs •LA resources - DEHLG •Legislation/guidance - DEHLG •Natural recovery - Nature •Planning - NPWS, LA, An Bord Plenala •Public Awareness - DEHLG

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •Alter the availability of supply through conjunctive use or integrated water resources management, water reuse, implementing SUDS in developed areas, implementation of abstraction controls, use of additional storage or alternative water source •Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater •Develop and employ demand reduction measures •Develop Habitat Suitability Curves for coarse fish and other important aquatic organisms •Develop Habitat Suitability Curves for salmonids in Irish rivers •In flow regulated rivers, establish guidance on flow variations to support ecology •Investigate implementation of smaller water schemes to reduce demand on other resources •Modernise Abstraction Legislation, including a system for licensing surface water abstractions •Record daily abstraction rates 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

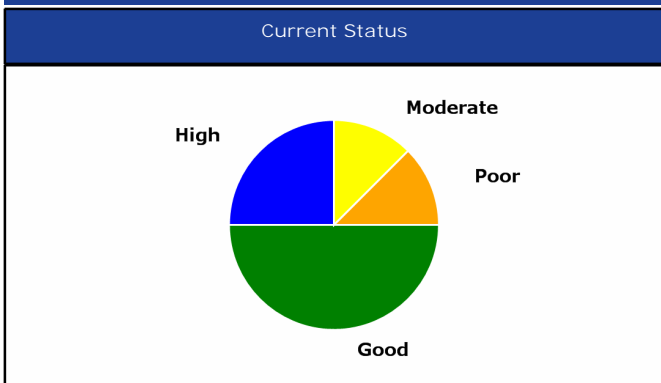
Stonyford Water Management Unit



Symbols	Meaning
	County boundaries
	Water Management Unit of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Stonyford Water Management Unit



Water Bodies in WMU	Current Status	Achieve Good Status by
StonyfordTRIB_Delvin	Good	2009
StonyfordTRIB_CoolironanTRIB_Robbersbus h	Good	2009
StonyfordTRIB_CrossKeysStream1_Lower	Good	2009
StonyfordTRIB_Coolironan	Good	2009
StonyfordTRIB_DarcysCrossroadsStream2_Upper	High	2009
StonyfordTRIB_CrossKeysStream2_Upper	High	2009
Stonyford1	Moderate	2021
StonyfordTRIB_DarcysCrossroadsStream1_Lower	Poor	2021

WMU to Achieve Good Status by 2021

Wastewater Treatment Plants

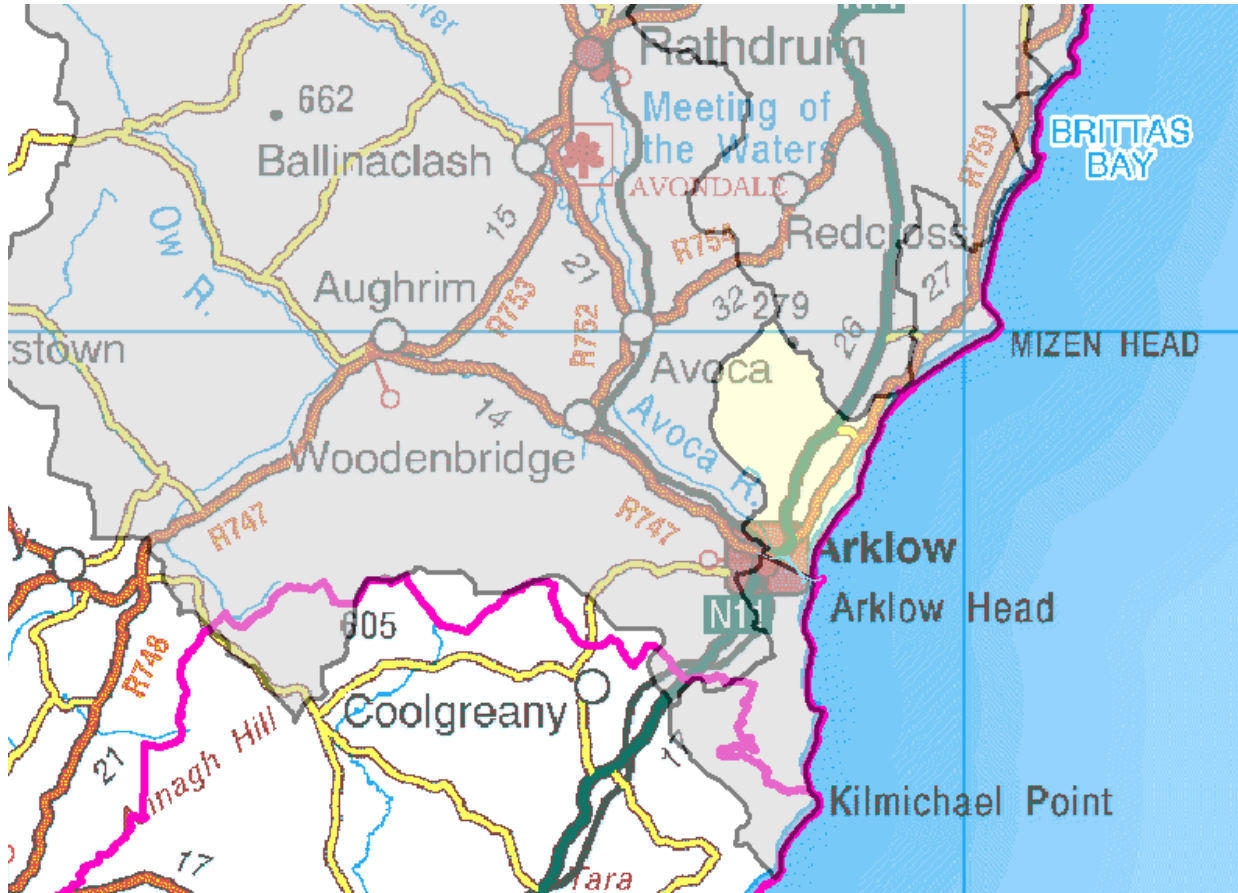
Delvin WwTW



Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio-Chemical)	80%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •DEHLG - Code of Good Practice and Guidelines on the use of Biosolids in Agriculture, 1999 •Further investigation/monitoring required •Restrict cattle access to rivers - Create cattle drinking points 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	10%	<ul style="list-style-type: none"> Local Government (Water Pollution) Act 1 of 1977 and amendments Urban Waste Water Treatment Regulations, 2001 - 2004 Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) Bathing Water Quality Regulations (S.I. 79 of 2008) Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) EPA (Licensing) Regulations, 1994 & 2004 EPA Waste (Licensing) Regulations, 2004 Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) Water Services Act 2007 	<ul style="list-style-type: none"> Courts - Enforcement DEHLG - Grant Funding (WSIP) DEHLG, EPA - Regulatory Agency EPA, LA - Inspections EPA, LA - Licensing Agency Plant owner - Funding Plant owner - Implementor 	<ul style="list-style-type: none"> Emphasise linkages between Planning, Water Services, Transport and Environmental Sections within Local Authorities for planning purposes Further investigation/monitoring required Implement community digestors for alternative energy 	<ul style="list-style-type: none"> Contract approval - DEHLG WSIP Funding, Owner funding Funding for pilot implementation - DEHLG Inclusion on WSIP planning list - DEHLG Licensing as necessary - EPA Operational improvements - Owner, operator Owner implementation - Owner Planning controls - LAs, An Bord Plenala Preparation of Water Services Strategic Plans - Local Authority Regulatory approvals - DEHLG, EPA WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	10%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement EPA Guidance LA - Inspections LA Bye Laws, LA Planning - Licensing Agency Owner - Implementor 	<ul style="list-style-type: none"> Enforce regulations on septic systems Further investigation/monitoring required 	<ul style="list-style-type: none"> Enforcement of new regulations/guidelines - Las Funding of pilot measures - DEHLG Legislation/guidance - DEHLG/EPA Local Authority Resources - DEHLG Natural recovery - Nature Owner funding - Owner Programme implementation sequencing - LAs Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) Foreshore Act (1933) Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> An Bord Pleanala, LA, CFB - Inspections Courts - Enforcement DEHLG, DEMNR, OPW - Grant Funding EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency OPW, EPA, DCMNR - Regulatory Agency Owner - Funding Owner, OPW - Implementor 		<ul style="list-style-type: none"> Definition of GEP - EPA Definition of needs - CFB, NPWS, OPW Enforcement of new regulations/guidelines - Las Funding for pilot measures implementation - DEHLG Implementation sequencing - all owners Implementation sequencing - LAs LA resources - DEHLG Legislation/guidance - DEHLG Natural recovery - Nature Planning - NPWS, LA, An Bord Plenala Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> National Water Pricing Policy Framework (1998) Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) Water Supplies Act 1942 	<ul style="list-style-type: none"> Abstractor - Implementor An Bord Plenala, LA, DEMNR - Planning Courts - Enforcement DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) EPA, DEMNR - Regulatory Agency EPA, LA - Inspections EPA, LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater Modernise Abstraction Legislation, including a system for licensing surface water abstractions 	<ul style="list-style-type: none"> Enforcement - EPA Evaluation methodology - DEHLG, EPA Funding - DEHLG Natural recovery time - Nature New Regulations - DEHLG Sequencing of implementation - All listed Agencies

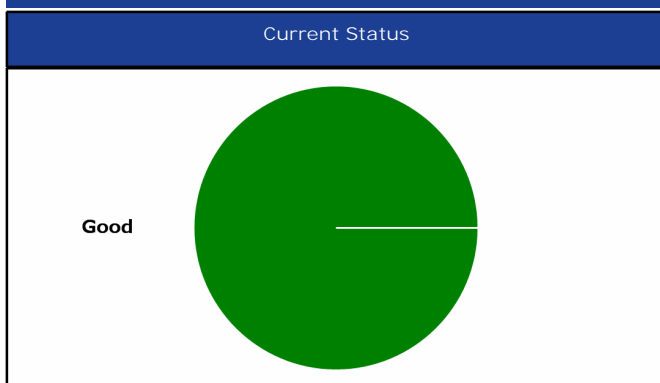
Tenpelrainy Water Management Unit



Symbols	Meaning
	County boundaries
	Water Management Unit of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Tempelrainy Water Management Unit



Water Bodies in WMU	Current Status	Achieve Good Status by
Tempelrainy1	Good	2009
WMU to Achieve Good Status by 2009		

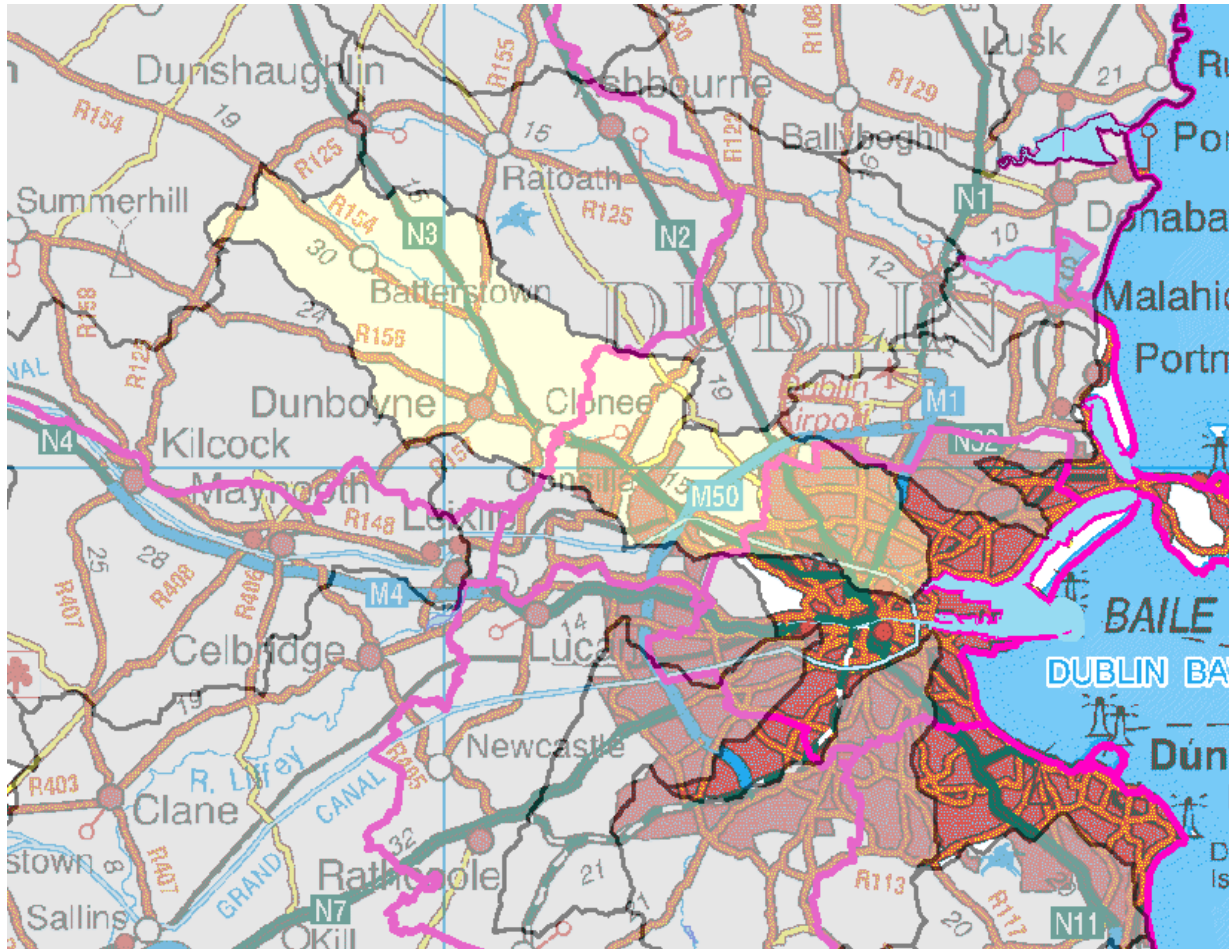
Wastewater Treatment Plants
None.



Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	80%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Restrict cattle access to rivers - Create cattle drinking points 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Diffuse Runoff (Urban) - Implement SUDS (Including Green Roofs Guidance) 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 		<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 		<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	10%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) EPA (Licensing) Regulations, 1994 & 2004 EPA Waste (Licensing) Regulations, 2004 Local Government (Water Pollution) Act 1 of 1977 and amendments Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) Urban Waste Water Treatment Regulations, 2001 - 2004 Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) Water Services Act 2007 	<ul style="list-style-type: none"> Courts - Enforcement DEHLG - Grant Funding (WSIP) DEHLG, EPA - Regulatory Agency EPA, LA - Inspections EPA, LA - Licensing Agency Plant owner - Funding Plant owner - Implementor 	<ul style="list-style-type: none"> Collection System - Upgrades and rehabilitation Diffuse Runoff (Urban) - Implement SUDS (Including Green Roofs Guidance) Emphasise linkages between Planning, Water Services, Transport and Environmental Sections within Local Authorities for planning purposes Implement community digestors for alternative energy 	<ul style="list-style-type: none"> Contract approval - DEHLG WSIP Funding, Owner funding Funding for pilot implementation - DEHLG Inclusion on WSIP planning list - DEHLG Licensing as necessary - EPA Operational improvements - Owner, operator Owner implementation - Owner Planning controls - LAs, An Bord Plenala Preparation of Water Services Strategic Plans - Local Authority Regulatory approvals - DEHLG, EPA WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement EPA Guidance LA - Inspections LA Bye Laws, LA Planning - Licensing Agency Owner - Implementor 	<ul style="list-style-type: none"> Carry out septic system inspections and upgrades 	<ul style="list-style-type: none"> Enforcement of new regulations/guidelines - Las Funding of pilot measures - DEHLG Legislation/guidance - DEHLG/EPA Local Authority Resources - DEHLG Natural recovery - Nature Owner funding - Owner Programme implementation sequencing - LAs Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) Foreshore Act (1933) Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> An Bord Pleanala, LA, CFB - Inspections Courts - Enforcement DEHLG, DEMNR, OPW - Grant Funding EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency OPW, EPA, DCMNR - Regulatory Agency Owner - Funding Owner, OPW - Implementor 	<ul style="list-style-type: none"> Further investigation/monitoring required 	<ul style="list-style-type: none"> Definition of GEP - EPA Definition of needs - CFB, NPWS, OPW Enforcement of new regulations/guidelines - Las Funding for pilot measures implementation - DEHLG Implementation sequencing - all owners Implementation sequencing - LAs LA resources - DEHLG Legislation/guidance - DEHLG Natural recovery - Nature Planning - NPWS, LA, An Bord Plenala Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> National Water Pricing Policy Framework (1998) Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) Water Supplies Act 1942 	<ul style="list-style-type: none"> Abstractor - Implementor An Bord Plenala, LA, DEMNR - Planning Courts - Enforcement DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) EPA, DEMNR - Regulatory Agency EPA, LA - Inspections EPA, LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater Modernise Abstraction Legislation, including a system for licensing surface water abstractions 	<ul style="list-style-type: none"> Enforcement - EPA Evaluation methodology - DEHLG, EPA Funding - DEHLG Natural recovery time - Nature New Regulations - DEHLG Sequencing of implementation - All listed Agencies

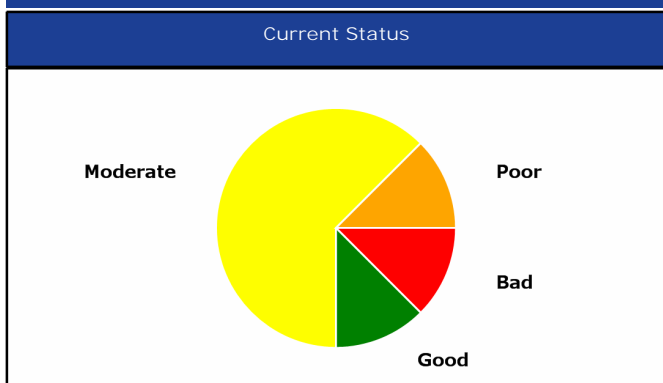
Tolka Water Management Unit



Symbols	Meaning
	County boundaries
	Water Management Unit of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Tolka Water Management Unit



Water Bodies in WMU	Current Status	Achieve Good Status by
TolkaTRIB_Pinkeen	Bad	2027
TolkaTRIB_Mulhuddart	Good	2009
Tolka3_Upper	Moderate	2027
TolkaTRIB_DunboyneStream	Moderate	2027
Tolka2_Mid	Moderate	2027
TolkaTRIB_Colliersland	Moderate	2027
TolkaTRIB_Batterstown	Moderate	2027
Tolka1_Lower	Poor	2027
WMU to Achieve Good Status by 2027		

Wastewater Treatment Plants

None.

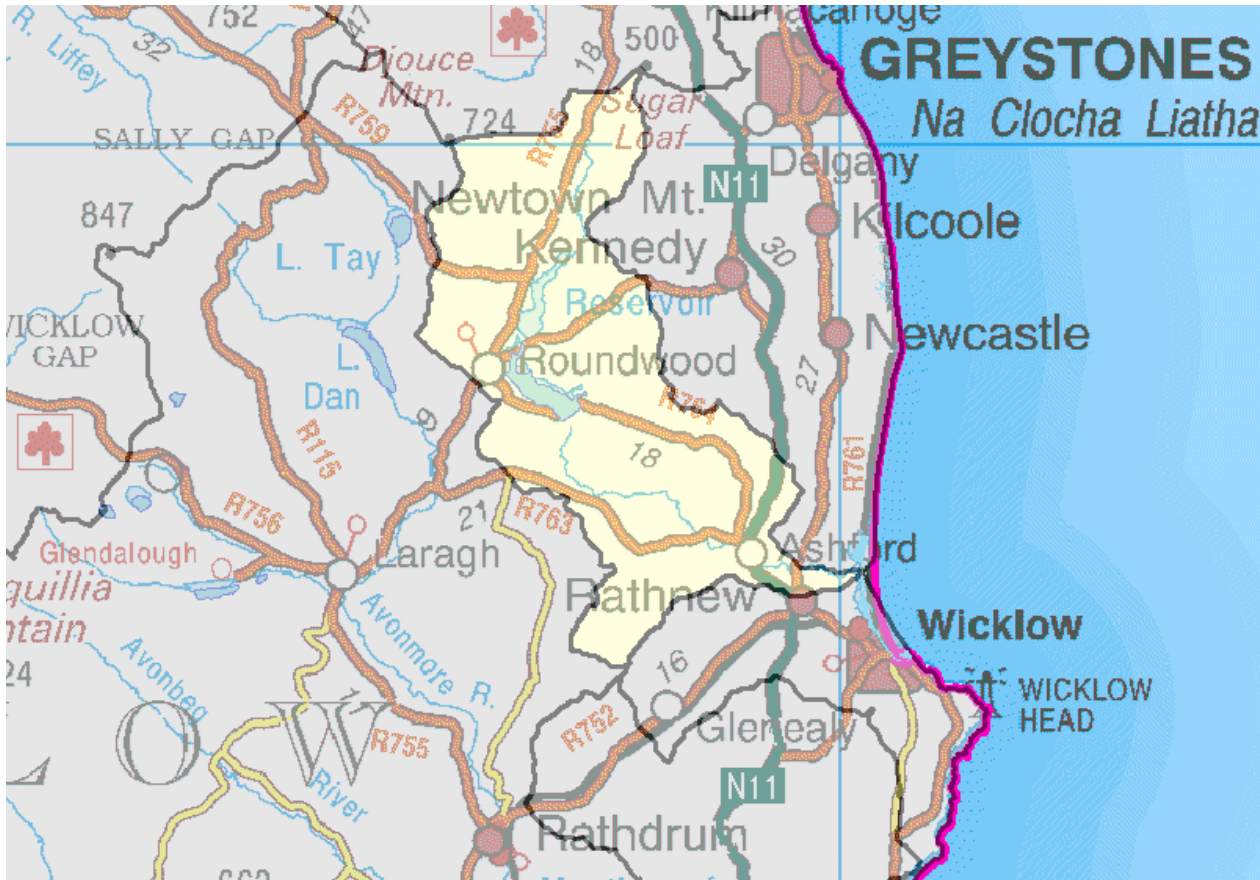
Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio-Chemical)	40%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Planning and Development Regulations 2001 - 2007 •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •DEHLG - Code of Good Practice and Guidelines on the use of Biosolids in Agriculture, 1999 •Further investigation/monitoring required •Implement upstream Programmes of Measures •Restrict cattle access to rivers - Create cattle drinking points 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies



Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EPA (Licensing) Regulations, 1994 & 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Planning and Development Regulations 2001 - 2007 •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Diffuse Runoff (Urban) - Gullies Management •Diffuse Runoff (Urban) - Implement SUDS (Including Green Roofs Guidance) •Diffuse Runoff (Urban) - Storm sewers separation and qualitative improvement •Further investigation/monitoring required •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •Planning and Development Regulations 2001 - 2007 •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •Planning and Development Regulations 2001 - 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	30%	<ul style="list-style-type: none"> EPA (Licensing) Regulations, 1994 & 2004 Local Government (Water Pollution) Act 1 of 1977 and amendments Planning and Development Regulations 2001 - 2007 Urban Waste Water Treatment Regulations, 2001 - 2004 Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) Bathing Water Quality Regulations (S.I. 79 of 2008) Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) EPA Waste (Licensing) Regulations, 2004 Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) Water Services Act 2007 	<ul style="list-style-type: none"> Courts - Enforcement DEHLG - Grant Funding (WSIP) DEHLG, EPA - Regulatory Agency EPA, LA - Inspections EPA, LA - Licensing Agency Plant owner - Funding Plant owner - Implementor 	<ul style="list-style-type: none"> Assess CSO and Water Quality Impact from Urban Pressures Collection system - Network management & operations programme Collection System - Upgrades and rehabilitation Diffuse Runoff (Urban) - Gullies Management Diffuse Runoff (Urban) - Implement SUDS (Including Green Roofs Guidance) Diffuse Runoff (Urban) - Storm sewers separation and qualitative improvement Emphasise linkages between Planning, Water Services, Transport and Environmental Sections within Local Authorities for planning purposes Further investigation/monitoring required Implement community digestors for alternative energy Implement Fats, Oils and Grease Programme Implement upstream Programmes of Measures Investigate and eliminate misconnections Upgrade WWTW and Collecting Systems <2000 PE 	<ul style="list-style-type: none"> Contract approval - DEHLG WSIP Funding, Owner funding Funding for pilot implementation - DEHLG Inclusion on WSIP planning list - DEHLG Licensing as necessary - EPA Operational improvements - Owner, operator Owner implementation - Owner Planning controls - LAs, An Bord Plenala Preparation of Water Services Strategic Plans - Local Authority Regulatory approvals - DEHLG, EPA WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	20%	<ul style="list-style-type: none"> Planning and Development Regulations 2001 - 2007 Bathing Water Quality Regulations (S.I. 79 of 2008) EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement EPA Guidance LA - Inspections LA Bye Laws, LA Planning - Licensing Agency Owner - Implementor 	<ul style="list-style-type: none"> Carry out septic system inspections and upgrades Develop septic system management programme Enforce regulations on septic systems Further investigation/monitoring required Implement upstream Programmes of Measures LAs to adopt a common register of approved site assessors and common code of practice for maintaining register LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections OSWTS risk matrices to be integrated into Development Plans and Local Area Plans 	<ul style="list-style-type: none"> Enforcement of new regulations/guidelines - Las Funding of pilot measures - DEHLG Legislation/guidance - DEHLG/EPA Local Authority Resources - DEHLG Natural recovery - Nature Owner funding - Owner Programme implementation sequencing - LAs Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> Planning and Development Regulations 2001 - 2007 EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) Foreshore Act (1933) 	<ul style="list-style-type: none"> An Bord Pleanala, LA, CFB - Inspections Courts - Enforcement DEHLG, DEMNR, OPW - Grant Funding EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency OPW, EPA, DCMNR - Regulatory Agency Owner - Funding Owner, OPW - Implementor 	<ul style="list-style-type: none"> Apply Heavily Modified Waterbody Measures (See External Document) 	<ul style="list-style-type: none"> Definition of GEP - EPA Definition of needs - CFB, NPWS, OPW Enforcement of new regulations/guidelines - Las Funding for pilot measures implementation - DEHLG Implementation sequencing - all owners Implementation sequencing - LAs LA resources - DEHLG Legislation/guidance - DEHLG Natural recovery - Nature Planning - NPWS, LA, An Bord Plenala Public Awareness - DEHLG

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater •Modernise Abstraction Legislation, including a system for licensing surface water abstractions 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

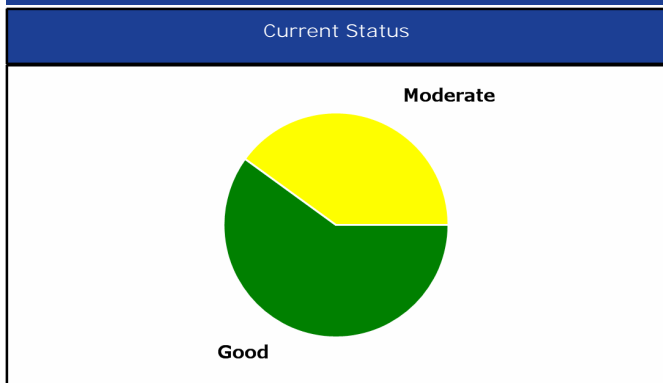
Vartry Water Management Unit



Symbols	Meaning
	County boundaries
	Water Management Unit of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Vartry Water Management Unit



Water Bodies in WMU	Current Status	Achieve Good Status by
Vartry3	Good	2009
Vartry4_Upper	Good	2009
Vartry2	Good	2009
Vartry1_Lower	Moderate	2015
VartryTRIB_Ashford	Moderate	2021
WMU to Achieve Good Status by 2021		

Wastewater Treatment Plants

Ashford WwTW

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	20%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Restrict cattle access to rivers - Create cattle drinking points 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Diffuse Runoff (Urban) - Implement SUDS (Including Green Roofs Guidance) •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	10%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Implement Forestry and Water Quality Guidelines 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Mitigate impact of quarry activities 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	70%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Diffuse Runoff (Urban) - Implement SUDS (Including Green Roofs Guidance) •Emphasise linkages between Planning, Water Services, Transport and Environmental Sections within Local Authorities for planning purposes •Further investigation/monitoring required •Implement community digestors for alternative energy •Upgrade WWTW and Collecting Systems <2000 PE 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	10%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Carry out septic system inspections and upgrades •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> •EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) •Foreshore Act (1933) •Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> •An Bord Pleanala, LA, CFB - Inspections •Courts - Enforcement •DEHLG, DEMNR, OPW - Grant Funding •EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency •OPW, EPA, DCMNR - Regulatory Agency •Owner - Funding •Owner, OPW - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Definition of GEP - EPA •Definition of needs - CFB, NPWS, OPW •Enforcement of new regulations/guidelines - Las •Funding for pilot measures implementation - DEHLG •Implementation sequencing - all owners •Implementation sequencing - LAs •LA resources - DEHLG •Legislation/guidance - DEHLG •Natural recovery - Nature •Planning - NPWS, LA, An Bord Plenala •Public Awareness - DEHLG

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •Alter the availability of supply through conjunctive use or integrated water resources management, water reuse, implementing SUDS in developed areas, implementation of abstraction controls, use of additional storage or alternative water source •Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater •Develop and employ demand reduction measures •Develop Habitat Suitability Curves for coarse fish and other important aquatic organisms •Develop Habitat Suitability Curves for salmonids in Irish rivers •Establish minimum instream flow conditions and requirements for compensation releases to allow flow variations •In flow regulated rivers, establish guidance on flow variations to support ecology •Investigate implementation of smaller water schemes to reduce demand on other resources •Modernise Abstraction Legislation, including a system for licensing surface water abstractions •Record daily abstraction rates 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

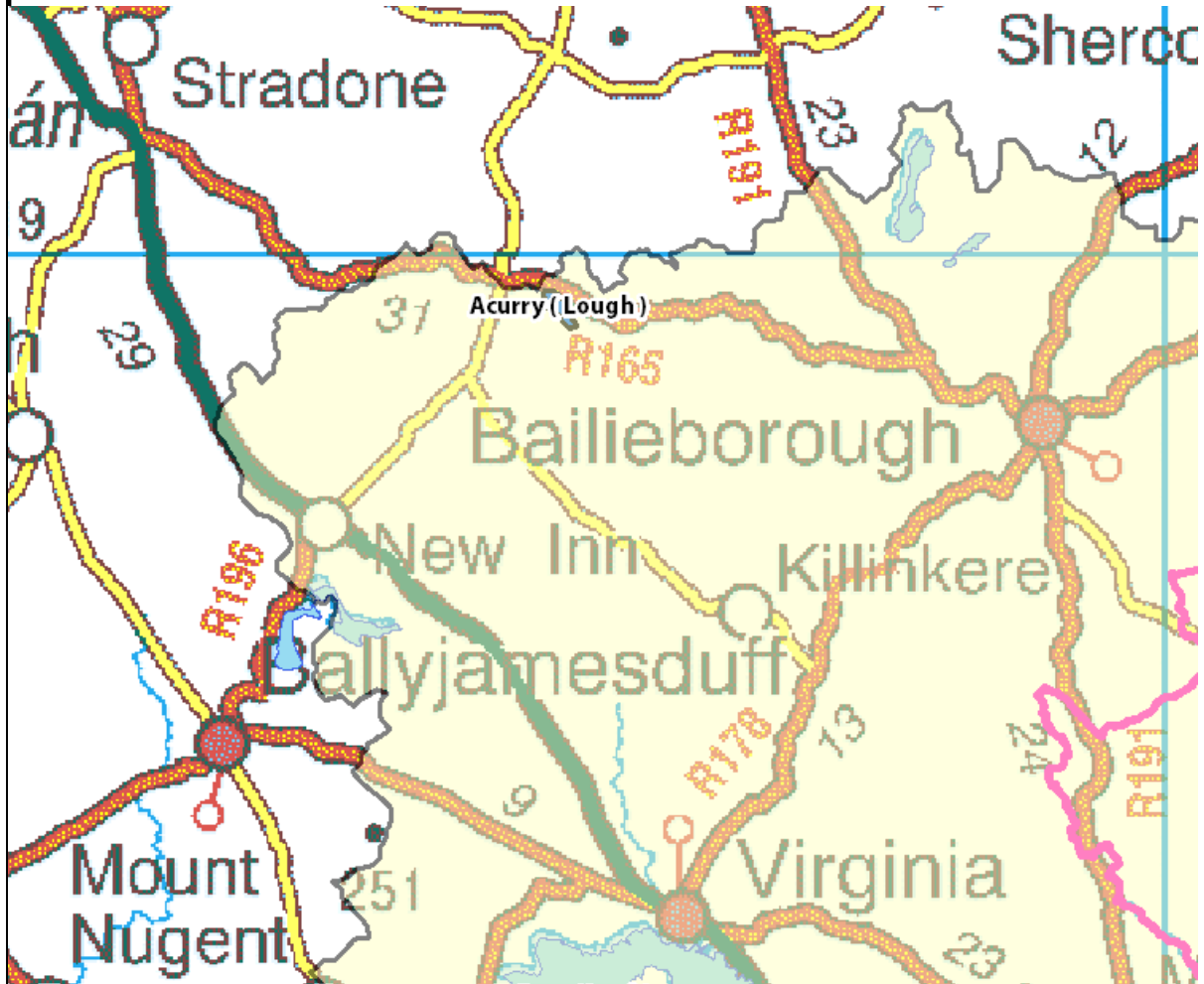





Lake Water Bodies



eastern
river basin district

Accury Lough



Symbols	Meaning
	County boundaries
	Water Management Unit
	Lake of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Acurry (Lough)

Water Bodies in WMU	Current Status	Achieve Good Status by
Acurry (Lough)	Good	2009

Wastewater Treatment Plants

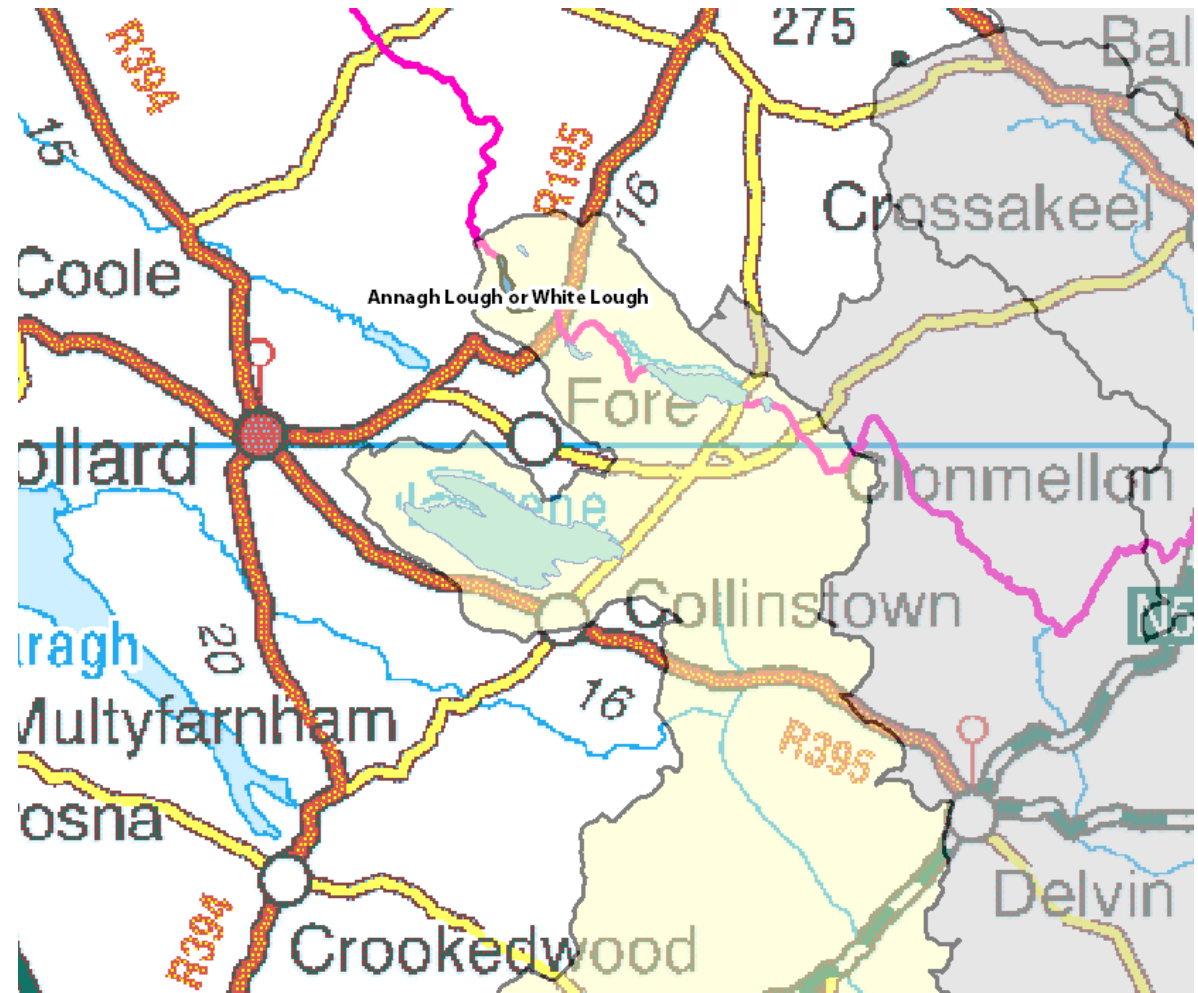
None.




Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio-Chemical)	100%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 		<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 		<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 		<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 		<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) EPA (Licensing) Regulations, 1994 & 2004 EPA Waste (Licensing) Regulations, 2004 Local Government (Water Pollution) Act 1 of 1977 and amendments Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) Urban Waste Water Treatment Regulations, 2001 - 2004 Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) Water Services Act 2007 	<ul style="list-style-type: none"> Courts - Enforcement DEHLG - Grant Funding (WSIP) DEHLG, EPA - Regulatory Agency EPA, LA - Inspections EPA, LA - Licensing Agency Plant owner - Funding Plant owner - Implementor 		<ul style="list-style-type: none"> Contract approval - DEHLG WSIP Funding, Owner funding Funding for pilot implementation - DEHLG Inclusion on WSIP planning list - DEHLG Licensing as necessary - EPA Operational improvements - Owner, operator Owner implementation - Owner Planning controls - LAs, An Bord Plenala Preparation of Water Services Strategic Plans - Local Authority Regulatory approvals - DEHLG, EPA WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement EPA Guidance LA - Inspections LA Bye Laws, LA Planning - Licensing Agency Owner - Implementor 		<ul style="list-style-type: none"> Enforcement of new regulations/guidelines - Las Funding of pilot measures - DEHLG Legislation/guidance - DEHLG/EPA Local Authority Resources - DEHLG Natural recovery - Nature Owner funding - Owner Programme implementation sequencing - LAs Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) Foreshore Act (1933) Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> An Bord Pleanala, LA, CFB - Inspections Courts - Enforcement DEHLG, DEMNR, OPW - Grant Funding EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency OPW, EPA, DCMNR - Regulatory Agency Owner - Funding Owner, OPW - Implementor 	•No Measure Required	<ul style="list-style-type: none"> Definition of GEP - EPA Definition of needs - CFB, NPWS, OPW Enforcement of new regulations/guidelines - Las Funding for pilot measures implementation - DEHLG Implementation sequencing - all owners Implementation sequencing - LAs LA resources - DEHLG Legislation/guidance - DEHLG Natural recovery - Nature Planning - NPWS, LA, An Bord Pleanala Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> National Water Pricing Policy Framework (1998) Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) Water Supplies Act 1942 	<ul style="list-style-type: none"> Abstractor - Implementor An Bord Pleanala, LA, DEMNR - Planning Courts - Enforcement DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) EPA, DEMNR - Regulatory Agency EPA, LA - Inspections EPA, LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> Modernise Abstraction Legislation, including a system for licensing surface water abstractions Record daily abstraction rates Record daily water level 	<ul style="list-style-type: none"> Enforcement - EPA Evaluation methodology - DEHLG, EPA Funding - DEHLG Natural recovery time - Nature New Regulations - DEHLG Sequencing of implementation - All listed Agencies

Annagh Lough



Symbols	Meaning
	County boundaries
	Water Management Unit
	Lake of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Annagh Lough or White Lough

Water Bodies in WMU	Current Status	Achieve Good Status by
Annagh Lough or White Lough	Good	2009

Wastewater Treatment Plants
None.




Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 		<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 		<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	100%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •Forestry Act 1946 and 1988 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Forest Service - Forestry and Aerial Fertilisation Guidelines •Implement Forestry and Water Quality Guidelines •Update Forest Service Guidance document on new EQS standards, Aerial Fertilisation Regulations, Updated Acidification protocol. 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 		<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) EPA (Licensing) Regulations, 1994 & 2004 EPA Waste (Licensing) Regulations, 2004 Local Government (Water Pollution) Act 1 of 1977 and amendments Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) Urban Waste Water Treatment Regulations, 2001 - 2004 Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) Water Services Act 2007 	<ul style="list-style-type: none"> Courts - Enforcement DEHLG - Grant Funding (WSIP) DEHLG, EPA - Regulatory Agency EPA, LA - Inspections EPA, LA - Licensing Agency Plant owner - Funding Plant owner - Implementor 		<ul style="list-style-type: none"> Contract approval - DEHLG WSIP Funding, Owner funding Funding for pilot implementation - DEHLG Inclusion on WSIP planning list - DEHLG Licensing as necessary - EPA Operational improvements - Owner, operator Owner implementation - Owner Planning controls - LAs, An Bord Plenala Preparation of Water Services Strategic Plans - Local Authority Regulatory approvals - DEHLG, EPA WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement EPA Guidance LA - Inspections LA Bye Laws, LA Planning - Licensing Agency Owner - Implementor 		<ul style="list-style-type: none"> Enforcement of new regulations/guidelines - Las Funding of pilot measures - DEHLG Legislation/guidance - DEHLG/EPA Local Authority Resources - DEHLG Natural recovery - Nature Owner funding - Owner Programme implementation sequencing - LAs Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) Foreshore Act (1933) Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> An Bord Pleanala, LA, CFB - Inspections Courts - Enforcement DEHLG, DEMNR, OPW - Grant Funding EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency OPW, EPA, DCMNR - Regulatory Agency Owner - Funding Owner, OPW - Implementor 	•No Measure Required	<ul style="list-style-type: none"> Definition of GEP - EPA Definition of needs - CFB, NPWS, OPW Enforcement of new regulations/guidelines - Las Funding for pilot measures implementation - DEHLG Implementation sequencing - all owners Implementation sequencing - LAs LA resources - DEHLG Legislation/guidance - DEHLG Natural recovery - Nature Planning - NPWS, LA, An Bord Plenala Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> National Water Pricing Policy Framework (1998) Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) Water Supplies Act 1942 	<ul style="list-style-type: none"> Abstractor - Implementor An Bord Pleanala, LA, DEMNR - Planning Courts - Enforcement DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) EPA, DEMNR - Regulatory Agency EPA, LA - Inspections EPA, LA, DEMNR - Licensing Agency 		<ul style="list-style-type: none"> Enforcement - EPA Evaluation methodology - DEHLG, EPA Funding - DEHLG Natural recovery time - Nature New Regulations - DEHLG Sequencing of implementation - All listed Agencies

Bane Lough



Symbols	Meaning
	County boundaries
	Water Management Unit
	Lake of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Bane (Lough)

Water Bodies in WMU	Current Status	Achieve Good Status by
Bane (Lough)	Moderate	2015

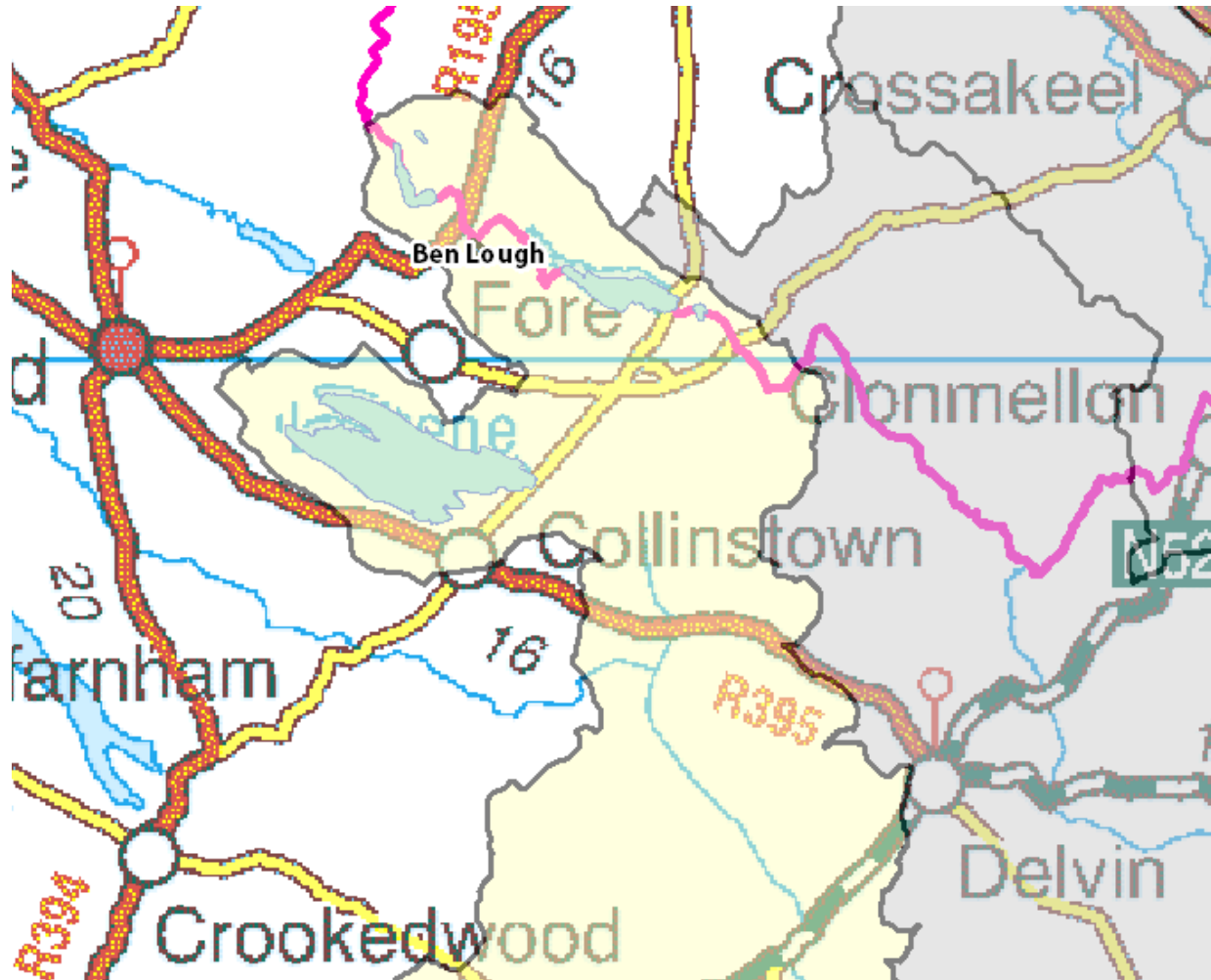
Wastewater Treatment Plants
None.




Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	20%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	10%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) EPA (Licensing) Regulations, 1994 & 2004 EPA Waste (Licensing) Regulations, 2004 Local Government (Water Pollution) Act 1 of 1977 and amendments Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) Urban Waste Water Treatment Regulations, 2001 - 2004 Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) Water Services Act 2007 	<ul style="list-style-type: none"> Courts - Enforcement DEHLG - Grant Funding (WSIP) DEHLG, EPA - Regulatory Agency EPA, LA - Inspections EPA, LA - Licensing Agency Plant owner - Funding Plant owner - Implementor 	<ul style="list-style-type: none"> No Measure Required 	<ul style="list-style-type: none"> Contract approval - DEHLG WSIP Funding, Owner funding Funding for pilot implementation - DEHLG Inclusion on WSIP planning list - DEHLG Licensing as necessary - EPA Operational improvements - Owner, operator Owner implementation - Owner Planning controls - LAs, An Bord Plenala Preparation of Water Services Strategic Plans - Local Authority Regulatory approvals - DEHLG, EPA WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	10%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement EPA Guidance LA - Inspections LA Bye Laws, LA Planning - Licensing Agency Owner - Implementor 	<ul style="list-style-type: none"> No Measure Required 	<ul style="list-style-type: none"> Enforcement of new regulations/guidelines - Las Funding of pilot measures - DEHLG Legislation/guidance - DEHLG/EPA Local Authority Resources - DEHLG Natural recovery - Nature Owner funding - Owner Programme implementation sequencing - LAs Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) Foreshore Act (1933) Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> An Bord Pleanala, LA, CFB - Inspections Courts - Enforcement DEHLG, DEMNR, OPW - Grant Funding EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency OPW, EPA, DCMNR - Regulatory Agency Owner - Funding Owner, OPW - Implementor 	<ul style="list-style-type: none"> No Measure Required 	<ul style="list-style-type: none"> Definition of GEP - EPA Definition of needs - CFB, NPWS, OPW Enforcement of new regulations/guidelines - Las Funding for pilot measures implementation - DEHLG Implementation sequencing - all owners Implementation sequencing - LAs LA resources - DEHLG Legislation/guidance - DEHLG Natural recovery - Nature Planning - NPWS, LA, An Bord Plenala Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> National Water Pricing Policy Framework (1998) Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) Water Supplies Act 1942 	<ul style="list-style-type: none"> Abstractor - Implementor An Bord Plenala, LA, DEMNR - Planning Courts - Enforcement DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) EPA, DEMNR - Regulatory Agency EPA, LA - Inspections EPA, LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> Further investigation/monitoring required Modernise Abstraction Legislation, including a system for licensing surface water abstractions Record daily abstraction rates Record daily water level 	<ul style="list-style-type: none"> Enforcement - EPA Evaluation methodology - DEHLG, EPA Funding - DEHLG Natural recovery time - Nature New Regulations - DEHLG Sequencing of implementation - All listed Agencies

Ben Lough



Symbols	Meaning
	County boundaries
	Water Management Unit
	Lake of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Ben Lough

Water Bodies in WMU	Current Status	Achieve Good Status by
Ben Lough	Moderate	2021

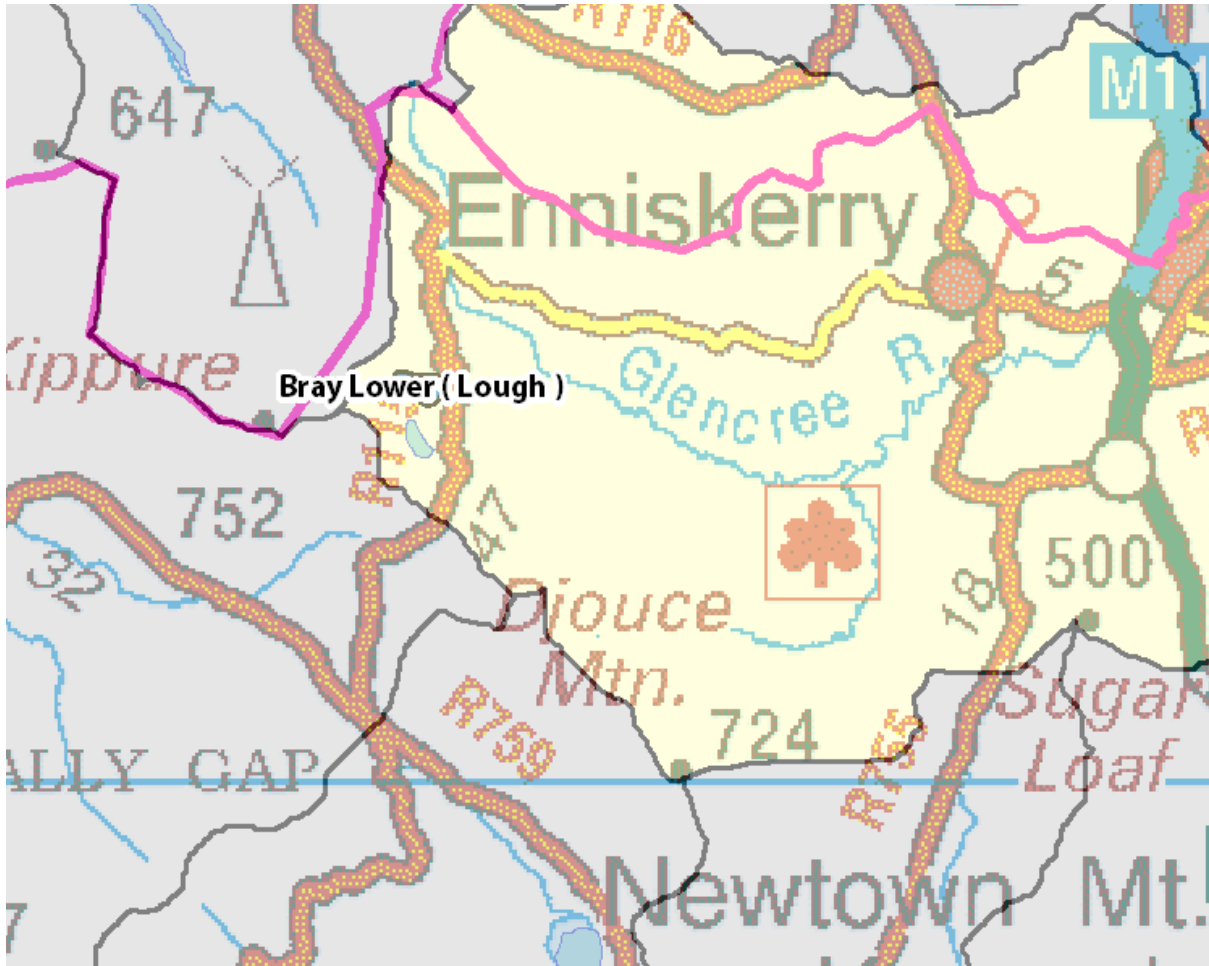
Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio-Chemical)	20%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	10%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	10%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> •EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) •Foreshore Act (1933) •Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> •An Bord Pleanala, LA, CFB - Inspections •Courts - Enforcement •DEHLG, DEMNR, OPW - Grant Funding •EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency •OPW, EPA, DCMNR - Regulatory Agency •Owner - Funding •Owner, OPW - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Definition of GEP - EPA •Definition of needs - CFB, NPWS, OPW •Enforcement of new regulations/guidelines - Las •Funding for pilot measures implementation - DEHLG •Implementation sequencing - all owners •Implementation sequencing - LAs •LA resources - DEHLG •Legislation/guidance - DEHLG •Natural recovery - Nature •Planning - NPWS, LA, An Bord Pleanala •Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Pleanala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 		<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Bray Lower Lough



Symbols	Meaning
	County boundaries
	Water Management Unit
	Lake of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Bray Lower (Lough)

Water Bodies in WMU	Current Status	Achieve Good Status by
Bray Lower (Lough)	Good	2009

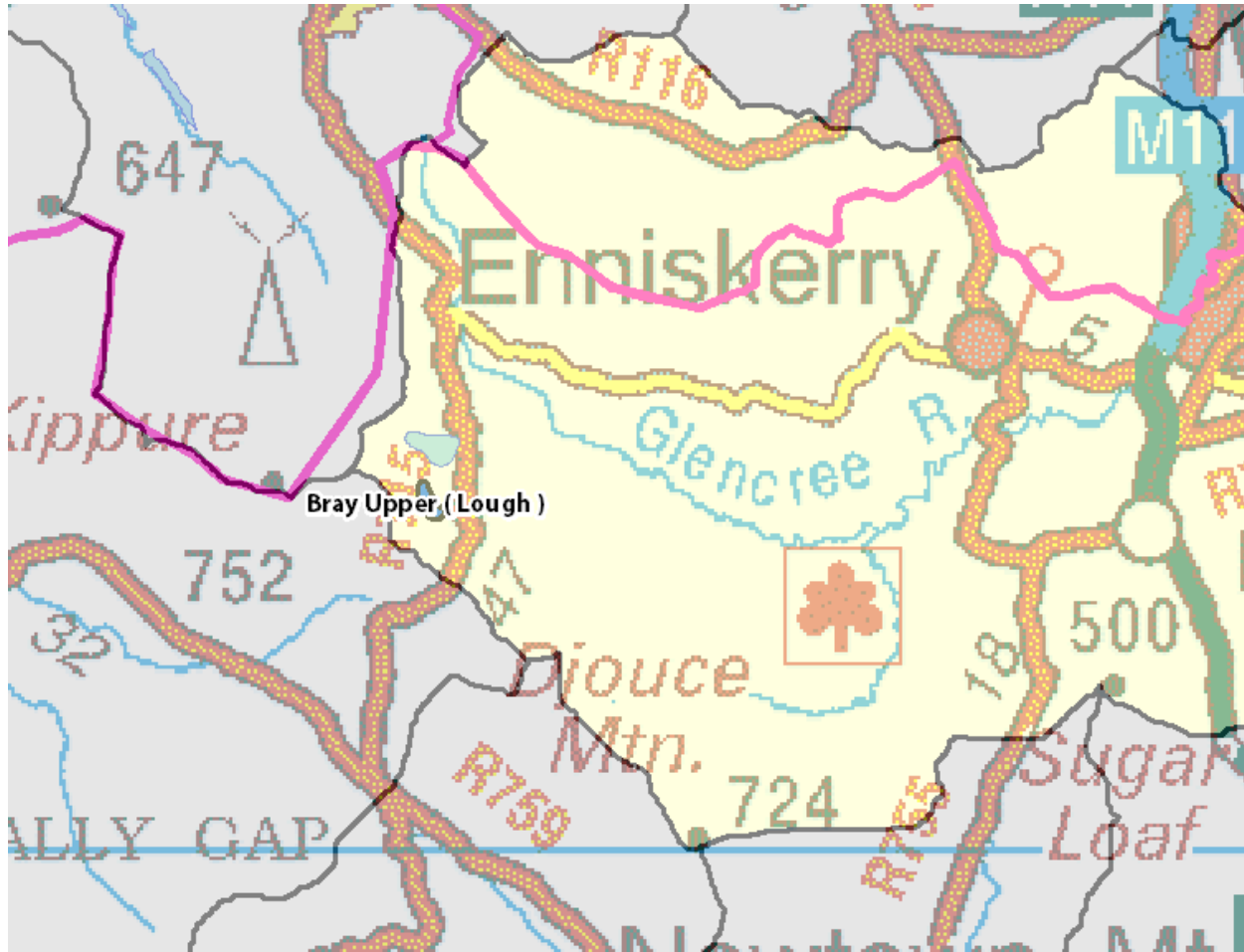
Wastewater Treatment Plants
None.




Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio-Chemical)	20%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •No Measure Required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Further investigation/monitoring required •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	10%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) EPA (Licensing) Regulations, 1994 & 2004 EPA Waste (Licensing) Regulations, 2004 Local Government (Water Pollution) Act 1 of 1977 and amendments Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) Urban Waste Water Treatment Regulations, 2001 - 2004 Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) Water Services Act 2007 	<ul style="list-style-type: none"> Courts - Enforcement DEHLG - Grant Funding (WSIP) DEHLG, EPA - Regulatory Agency EPA, LA - Inspections EPA, LA - Licensing Agency Plant owner - Funding Plant owner - Implementor 	<ul style="list-style-type: none"> Further investigation/monitoring required No Measure Required 	<ul style="list-style-type: none"> Contract approval - DEHLG WSIP Funding, Owner funding Funding for pilot implementation - DEHLG Inclusion on WSIP planning list - DEHLG Licensing as necessary - EPA Operational improvements - Owner, operator Owner implementation - Owner Planning controls - LAs, An Bord Plenala Preparation of Water Services Strategic Plans - Local Authority Regulatory approvals - DEHLG, EPA WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	10%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement EPA Guidance LA - Inspections LA Bye Laws, LA Planning - Licensing Agency Owner - Implementor 	<ul style="list-style-type: none"> Further investigation/monitoring required No Measure Required 	<ul style="list-style-type: none"> Enforcement of new regulations/guidelines - Las Funding of pilot measures - DEHLG Legislation/guidance - DEHLG/EPA Local Authority Resources - DEHLG Natural recovery - Nature Owner funding - Owner Programme implementation sequencing - LAs Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) Foreshore Act (1933) Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> An Bord Pleanala, LA, CFB - Inspections Courts - Enforcement DEHLG, DEMNR, OPW - Grant Funding EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency OPW, EPA, DCMNR - Regulatory Agency Owner - Funding Owner, OPW - Implementor 	<ul style="list-style-type: none"> No Measure Required 	<ul style="list-style-type: none"> Definition of GEP - EPA Definition of needs - CFB, NPWS, OPW Enforcement of new regulations/guidelines - Las Funding for pilot measures implementation - DEHLG Implementation sequencing - all owners Implementation sequencing - LAs LA resources - DEHLG Legislation/guidance - DEHLG Natural recovery - Nature Planning - NPWS, LA, An Bord Pleanala Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> National Water Pricing Policy Framework (1998) Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) Water Supplies Act 1942 	<ul style="list-style-type: none"> Abstractor - Implementor An Bord Pleanala, LA, DEMNR - Planning Courts - Enforcement DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) EPA, DEMNR - Regulatory Agency EPA, LA - Inspections EPA, LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> No Measure Needed 	<ul style="list-style-type: none"> Enforcement - EPA Evaluation methodology - DEHLG, EPA Funding - DEHLG Natural recovery time - Nature New Regulations - DEHLG Sequencing of implementation - All listed Agencies

Bray Upper Lough



Symbols	Meaning
	County boundaries
	Water Management Unit
	Lake of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Bray Upper (Lough)

Water Bodies in WMU	Current Status	Achieve Good Status by
Bray Upper (Lough)	High	2009

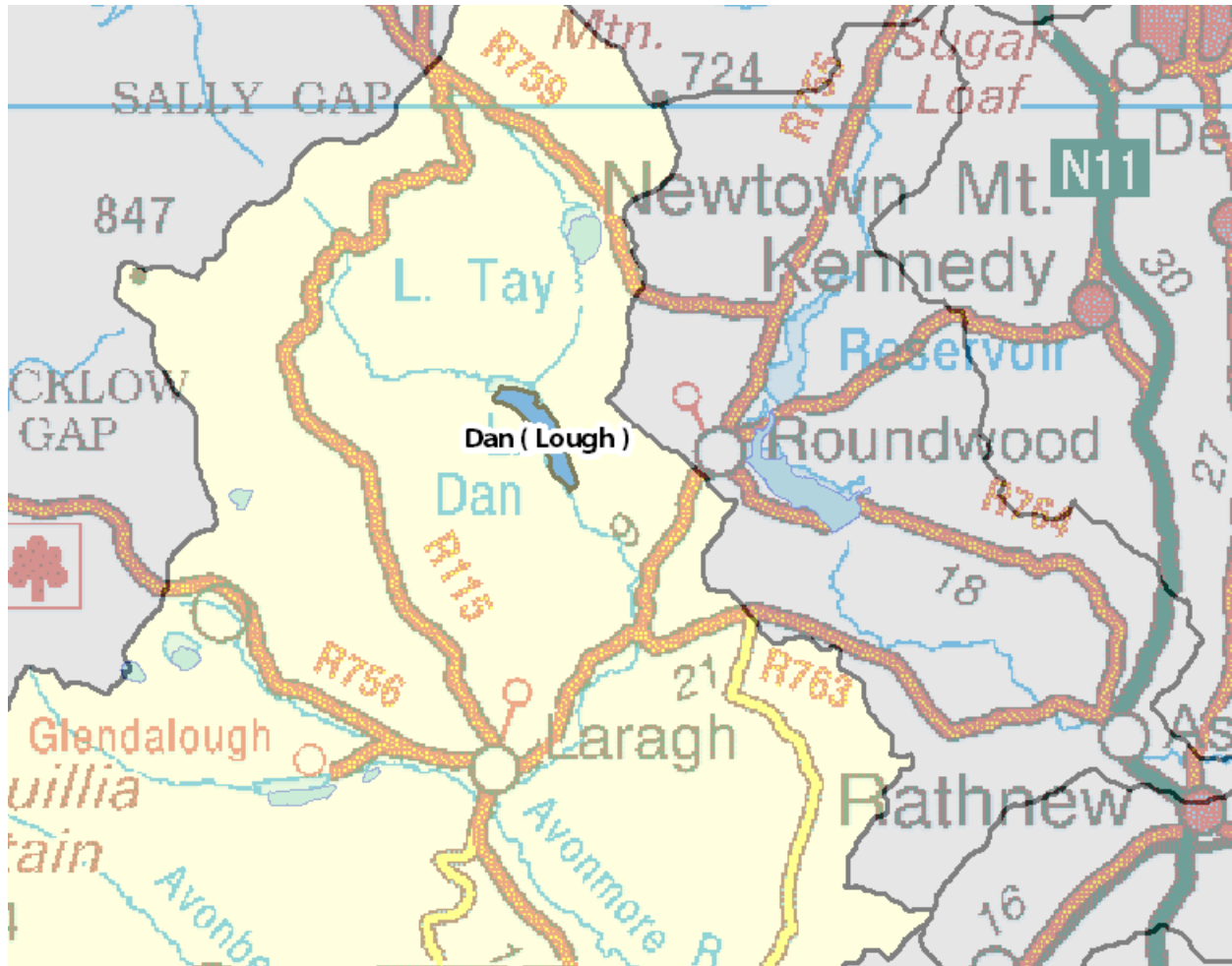
Wastewater Treatment Plants
None.




Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	20%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •No Measure Required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Further investigation/monitoring required •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	10%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) EPA (Licensing) Regulations, 1994 & 2004 EPA Waste (Licensing) Regulations, 2004 Local Government (Water Pollution) Act 1 of 1977 and amendments Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) Urban Waste Water Treatment Regulations, 2001 - 2004 Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) Water Services Act 2007 	<ul style="list-style-type: none"> Courts - Enforcement DEHLG - Grant Funding (WSIP) DEHLG, EPA - Regulatory Agency EPA, LA - Inspections EPA, LA - Licensing Agency Plant owner - Funding Plant owner - Implementor 	<ul style="list-style-type: none"> Further investigation/monitoring required No Measure Required 	<ul style="list-style-type: none"> Contract approval - DEHLG WSIP Funding, Owner funding Funding for pilot implementation - DEHLG Inclusion on WSIP planning list - DEHLG Licensing as necessary - EPA Operational improvements - Owner, operator Owner implementation - Owner Planning controls - LAs, An Bord Plenala Preparation of Water Services Strategic Plans - Local Authority Regulatory approvals - DEHLG, EPA WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	10%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement EPA Guidance LA - Inspections LA Bye Laws, LA Planning - Licensing Agency Owner - Implementor 	<ul style="list-style-type: none"> Further investigation/monitoring required No Measure Required 	<ul style="list-style-type: none"> Enforcement of new regulations/guidelines - Las Funding of pilot measures - DEHLG Legislation/guidance - DEHLG/EPA Local Authority Resources - DEHLG Natural recovery - Nature Owner funding - Owner Programme implementation sequencing - LAs Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) Foreshore Act (1933) Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> An Bord Pleanala, LA, CFB - Inspections Courts - Enforcement DEHLG, DEMNR, OPW - Grant Funding EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency OPW, EPA, DCMNR - Regulatory Agency Owner - Funding Owner, OPW - Implementor 	<ul style="list-style-type: none"> No Measure Required 	<ul style="list-style-type: none"> Definition of GEP - EPA Definition of needs - CFB, NPWS, OPW Enforcement of new regulations/guidelines - Las Funding for pilot measures implementation - DEHLG Implementation sequencing - all owners Implementation sequencing - LAs LA resources - DEHLG Legislation/guidance - DEHLG Natural recovery - Nature Planning - NPWS, LA, An Bord Pleanala Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> National Water Pricing Policy Framework (1998) Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) Water Supplies Act 1942 	<ul style="list-style-type: none"> Abstractor - Implementor An Bord Pleanala, LA, DEMNR - Planning Courts - Enforcement DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) EPA, DEMNR - Regulatory Agency EPA, LA - Inspections EPA, LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> No Measure Needed 	<ul style="list-style-type: none"> Enforcement - EPA Evaluation methodology - DEHLG, EPA Funding - DEHLG Natural recovery time - Nature New Regulations - DEHLG Sequencing of implementation - All listed Agencies

Dan Lough



Symbols	Meaning
	County boundaries
	Water Management Unit
	Lake of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Dan (Lough)

Water Bodies in WMU	Current Status	Achieve Good Status by
Dan (Lough)	High	2009

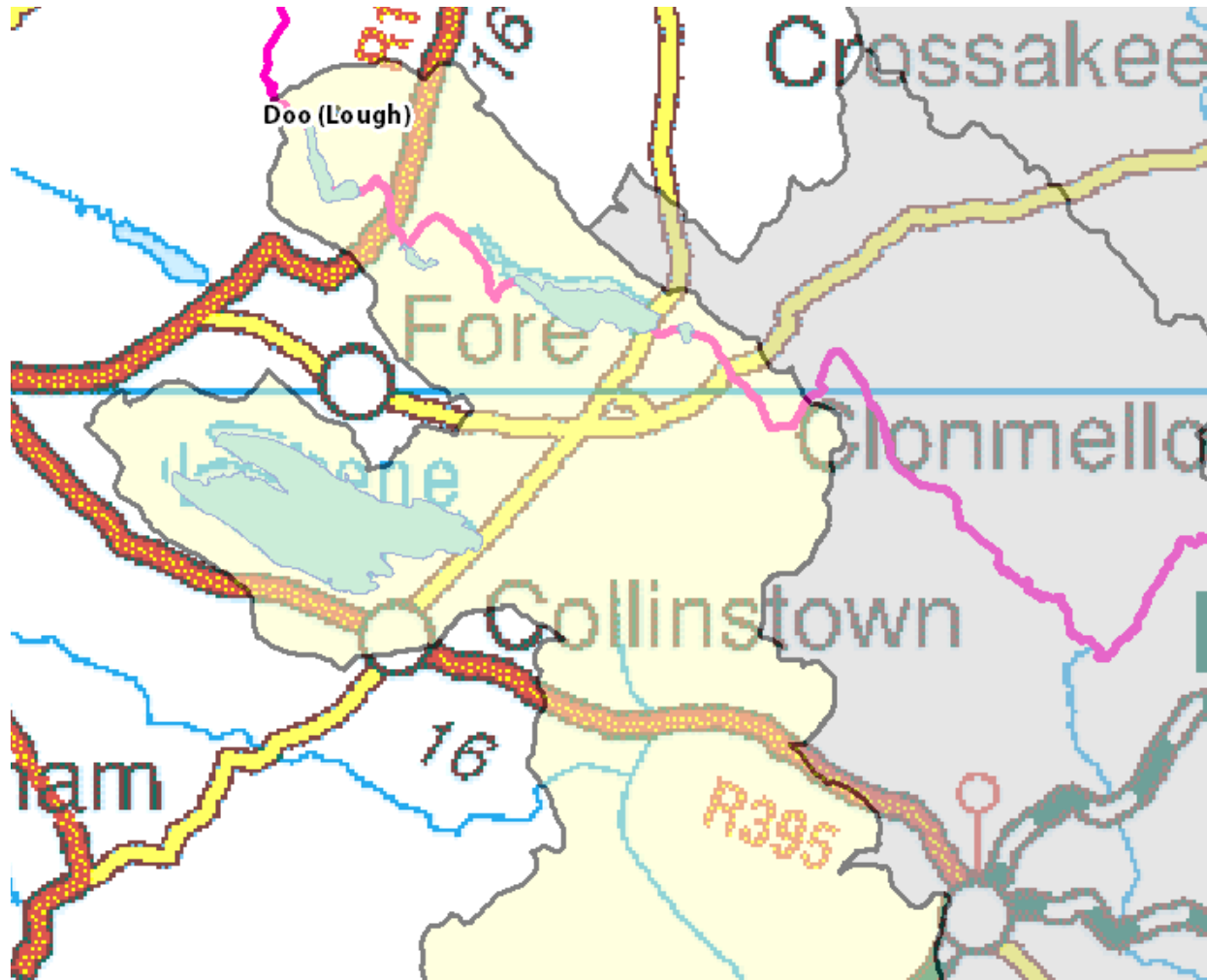
Wastewater Treatment Plants
None.




Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	20%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
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Wastewater/ Unsewered (Physio- Chemical)	10%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement EPA Guidance LA - Inspections LA Bye Laws, LA Planning - Licensing Agency Owner - Implementor 	<ul style="list-style-type: none"> No Measure Required 	<ul style="list-style-type: none"> Enforcement of new regulations/guidelines - Las Funding of pilot measures - DEHLG Legislation/guidance - DEHLG/EPA Local Authority Resources - DEHLG Natural recovery - Nature Owner funding - Owner Programme implementation sequencing - LAs Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) Foreshore Act (1933) Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> An Bord Pleanala, LA, CFB - Inspections Courts - Enforcement DEHLG, DEMNR, OPW - Grant Funding EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency OPW, EPA, DCMNR - Regulatory Agency Owner - Funding Owner, OPW - Implementor 		<ul style="list-style-type: none"> Definition of GEP - EPA Definition of needs - CFB, NPWS, OPW Enforcement of new regulations/guidelines - Las Funding for pilot measures implementation - DEHLG Implementation sequencing - all owners Implementation sequencing - LAs LA resources - DEHLG Legislation/guidance - DEHLG Natural recovery - Nature Planning - NPWS, LA, An Bord Plenala Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> National Water Pricing Policy Framework (1998) Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) Water Supplies Act 1942 	<ul style="list-style-type: none"> Abstractor - Implementor An Bord Plenala, LA, DEMNR - Planning Courts - Enforcement DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) EPA, DEMNR - Regulatory Agency EPA, LA - Inspections EPA, LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> No Measure Needed 	<ul style="list-style-type: none"> Enforcement - EPA Evaluation methodology - DEHLG, EPA Funding - DEHLG Natural recovery time - Nature New Regulations - DEHLG Sequencing of implementation - All listed Agencies

Doo Lough



Symbols	Meaning
	County boundaries
	Water Management Unit
	Lake of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Doo (Lough)

Water Bodies in WMU	Current Status	Achieve Good Status by
Doo (Lough)	High	2009

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	20%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •No Measure Required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Further investigation/monitoring required •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	10%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) EPA (Licensing) Regulations, 1994 & 2004 EPA Waste (Licensing) Regulations, 2004 Local Government (Water Pollution) Act 1 of 1977 and amendments Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) Urban Waste Water Treatment Regulations, 2001 - 2004 Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) Water Services Act 2007 	<ul style="list-style-type: none"> Courts - Enforcement DEHLG - Grant Funding (WSIP) DEHLG, EPA - Regulatory Agency EPA, LA - Inspections EPA, LA - Licensing Agency Plant owner - Funding Plant owner - Implementor 	<ul style="list-style-type: none"> Further investigation/monitoring required No Measure Required 	<ul style="list-style-type: none"> Contract approval - DEHLG WSIP Funding, Owner funding Funding for pilot implementation - DEHLG Inclusion on WSIP planning list - DEHLG Licensing as necessary - EPA Operational improvements - Owner, operator Owner implementation - Owner Planning controls - LAs, An Bord Plenala Preparation of Water Services Strategic Plans - Local Authority Regulatory approvals - DEHLG, EPA WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	10%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement EPA Guidance LA - Inspections LA Bye Laws, LA Planning - Licensing Agency Owner - Implementor 	<ul style="list-style-type: none"> Further investigation/monitoring required No Measure Required 	<ul style="list-style-type: none"> Enforcement of new regulations/guidelines - Las Funding of pilot measures - DEHLG Legislation/guidance - DEHLG/EPA Local Authority Resources - DEHLG Natural recovery - Nature Owner funding - Owner Programme implementation sequencing - LAs Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) Foreshore Act (1933) Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> An Bord Pleanala, LA, CFB - Inspections Courts - Enforcement DEHLG, DEMNR, OPW - Grant Funding EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency OPW, EPA, DCMNR - Regulatory Agency Owner - Funding Owner, OPW - Implementor 	<ul style="list-style-type: none"> No Measure Required 	<ul style="list-style-type: none"> Definition of GEP - EPA Definition of needs - CFB, NPWS, OPW Enforcement of new regulations/guidelines - Las Funding for pilot measures implementation - DEHLG Implementation sequencing - all owners Implementation sequencing - LAs LA resources - DEHLG Legislation/guidance - DEHLG Natural recovery - Nature Planning - NPWS, LA, An Bord Pleanala Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> National Water Pricing Policy Framework (1998) Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) Water Supplies Act 1942 	<ul style="list-style-type: none"> Abstractor - Implementor An Bord Pleanala, LA, DEMNR - Planning Courts - Enforcement DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) EPA, DEMNR - Regulatory Agency EPA, LA - Inspections EPA, LA, DEMNR - Licensing Agency 		<ul style="list-style-type: none"> Enforcement - EPA Evaluation methodology - DEHLG, EPA Funding - DEHLG Natural recovery time - Nature New Regulations - DEHLG Sequencing of implementation - All listed Agencies

Drumkeery Lough



Eastern River Basin Management Plan – Programme of Measures Summary Report

Drumkeery Lough

Water Bodies in WMU	Current Status	Achieve Good Status by
Drumkeery Lough	Poor	2015

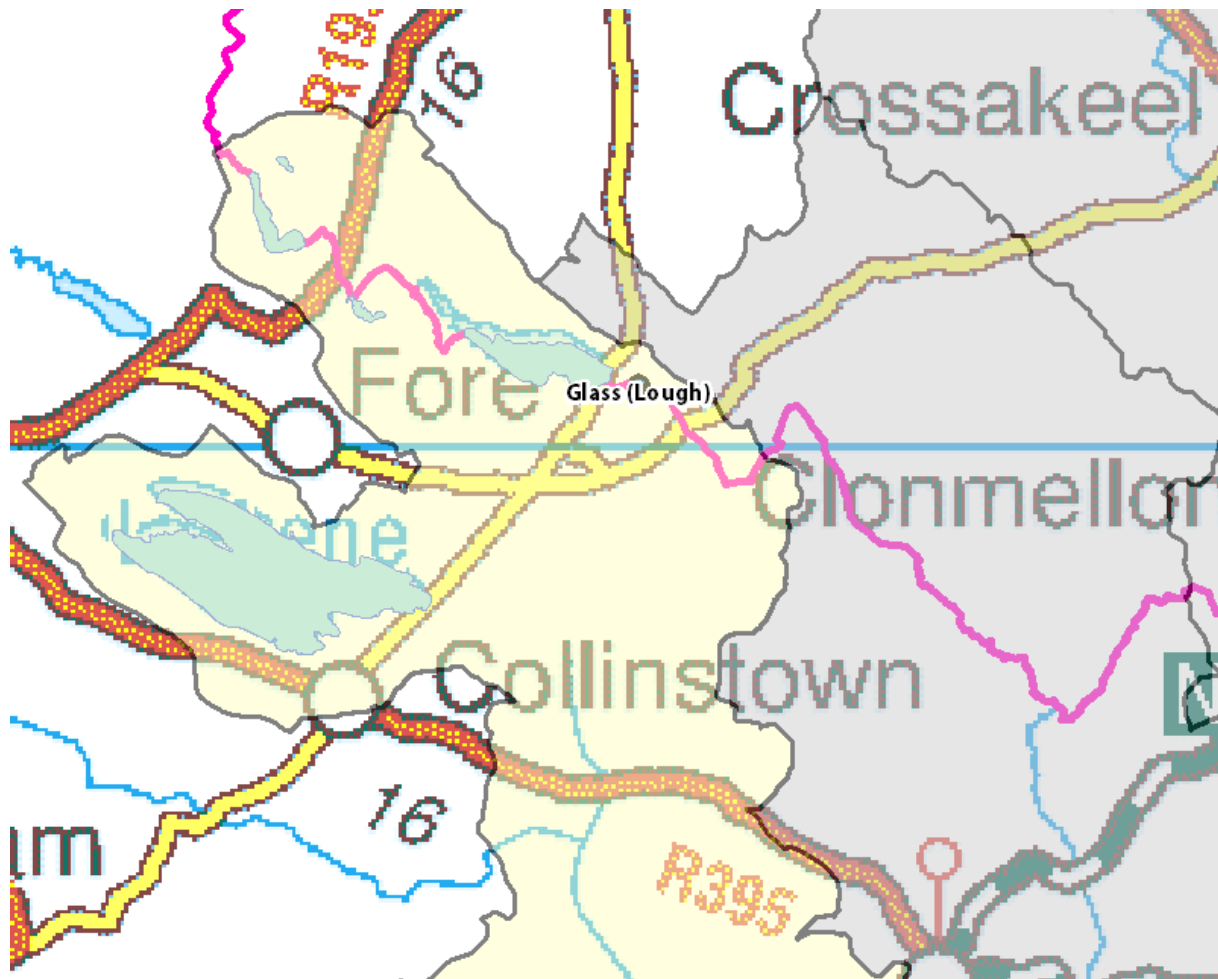
Wastewater Treatment Plants
None.




Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	70%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 		<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 		<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 		<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 		<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) EPA (Licensing) Regulations, 1994 & 2004 EPA Waste (Licensing) Regulations, 2004 Local Government (Water Pollution) Act 1 of 1977 and amendments Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) Urban Waste Water Treatment Regulations, 2001 - 2004 Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) Water Services Act 2007 	<ul style="list-style-type: none"> Courts - Enforcement DEHLG - Grant Funding (WSIP) DEHLG, EPA - Regulatory Agency EPA, LA - Inspections EPA, LA - Licensing Agency Plant owner - Funding Plant owner - Implementor 		<ul style="list-style-type: none"> Contract approval - DEHLG WSIP Funding, Owner funding Funding for pilot implementation - DEHLG Inclusion on WSIP planning list - DEHLG Licensing as necessary - EPA Operational improvements - Owner, operator Owner implementation - Owner Planning controls - LAs, An Bord Plenala Preparation of Water Services Strategic Plans - Local Authority Regulatory approvals - DEHLG, EPA WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	30%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement EPA Guidance LA - Inspections LA Bye Laws, LA Planning - Licensing Agency Owner - Implementor 	<ul style="list-style-type: none"> Develop septic system management programme Enforce regulations on septic systems EPA - Code of Practice for Wastewater Treatment Systems for Single Houses 	<ul style="list-style-type: none"> Enforcement of new regulations/guidelines - Las Funding of pilot measures - DEHLG Legislation/guidance - DEHLG/EPA Local Authority Resources - DEHLG Natural recovery - Nature Owner funding - Owner Programme implementation sequencing - LAs Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) Foreshore Act (1933) Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> An Bord Pleanala, LA, CFB - Inspections Courts - Enforcement DEHLG, DEMNR, OPW - Grant Funding EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency OPW, EPA, DCMNR - Regulatory Agency Owner - Funding Owner, OPW - Implementor 	<ul style="list-style-type: none"> No Measure Required 	<ul style="list-style-type: none"> Definition of GEP - EPA Definition of needs - CFB, NPWS, OPW Enforcement of new regulations/guidelines - Las Funding for pilot measures implementation - DEHLG Implementation sequencing - all owners Implementation sequencing - LAs LA resources - DEHLG Legislation/guidance - DEHLG Natural recovery - Nature Planning - NPWS, LA, An Bord Pleanala Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> National Water Pricing Policy Framework (1998) Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) Water Supplies Act 1942 	<ul style="list-style-type: none"> Abstractor - Implementor An Bord Pleanala, LA, DEMNR - Planning Courts - Enforcement DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) EPA, DEMNR - Regulatory Agency EPA, LA - Inspections EPA, LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> Further investigation/monitoring required Modernise Abstraction Legislation, including a system for licensing surface water abstractions Record daily abstraction rates Record daily water level 	<ul style="list-style-type: none"> Enforcement - EPA Evaluation methodology - DEHLG, EPA Funding - DEHLG Natural recovery time - Nature New Regulations - DEHLG Sequencing of implementation - All listed Agencies

Glass Lough



Symbols	Meaning
	County boundaries
	Water Management Unit
	Lake of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Glass (Lough)

Water Bodies in WMU	Current Status	Achieve Good Status by
Glass (Lough)	Good	2009

Wastewater Treatment Plants

None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	20%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •No Measure Required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Further investigation/monitoring required •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	10%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) EPA (Licensing) Regulations, 1994 & 2004 EPA Waste (Licensing) Regulations, 2004 Local Government (Water Pollution) Act 1 of 1977 and amendments Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) Urban Waste Water Treatment Regulations, 2001 - 2004 Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) Water Services Act 2007 	<ul style="list-style-type: none"> Courts - Enforcement DEHLG - Grant Funding (WSIP) DEHLG, EPA - Regulatory Agency EPA, LA - Inspections EPA, LA - Licensing Agency Plant owner - Funding Plant owner - Implementor 	<ul style="list-style-type: none"> Further investigation/monitoring required No Measure Required 	<ul style="list-style-type: none"> Contract approval - DEHLG WSIP Funding, Owner funding Funding for pilot implementation - DEHLG Inclusion on WSIP planning list - DEHLG Licensing as necessary - EPA Operational improvements - Owner, operator Owner implementation - Owner Planning controls - LAs, An Bord Plenala Preparation of Water Services Strategic Plans - Local Authority Regulatory approvals - DEHLG, EPA WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	10%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement EPA Guidance LA - Inspections LA Bye Laws, LA Planning - Licensing Agency Owner - Implementor 	<ul style="list-style-type: none"> Further investigation/monitoring required No Measure Required 	<ul style="list-style-type: none"> Enforcement of new regulations/guidelines - Las Funding of pilot measures - DEHLG Legislation/guidance - DEHLG/EPA Local Authority Resources - DEHLG Natural recovery - Nature Owner funding - Owner Programme implementation sequencing - LAs Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) Foreshore Act (1933) Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> An Bord Pleanala, LA, CFB - Inspections Courts - Enforcement DEHLG, DEMNR, OPW - Grant Funding EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency OPW, EPA, DCMNR - Regulatory Agency Owner - Funding Owner, OPW - Implementor 		<ul style="list-style-type: none"> Definition of GEP - EPA Definition of needs - CFB, NPWS, OPW Enforcement of new regulations/guidelines - Las Funding for pilot measures implementation - DEHLG Implementation sequencing - all owners Implementation sequencing - LAs LA resources - DEHLG Legislation/guidance - DEHLG Natural recovery - Nature Planning - NPWS, LA, An Bord Plenala Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> National Water Pricing Policy Framework (1998) Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) Water Supplies Act 1942 	<ul style="list-style-type: none"> Abstractor - Implementor An Bord Plenala, LA, DEMNR - Planning Courts - Enforcement DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) EPA, DEMNR - Regulatory Agency EPA, LA - Inspections EPA, LA, DEMNR - Licensing Agency 		<ul style="list-style-type: none"> Enforcement - EPA Evaluation methodology - DEHLG, EPA Funding - DEHLG Natural recovery time - Nature New Regulations - DEHLG Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Glenasmole Reservoirs (O68)

Water Bodies in WMU	Current Status	Achieve Good Status by
Glenasmole Reservoirs	Good	2009

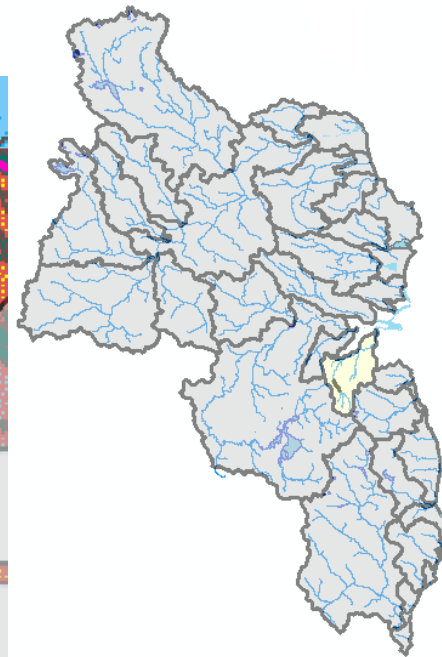
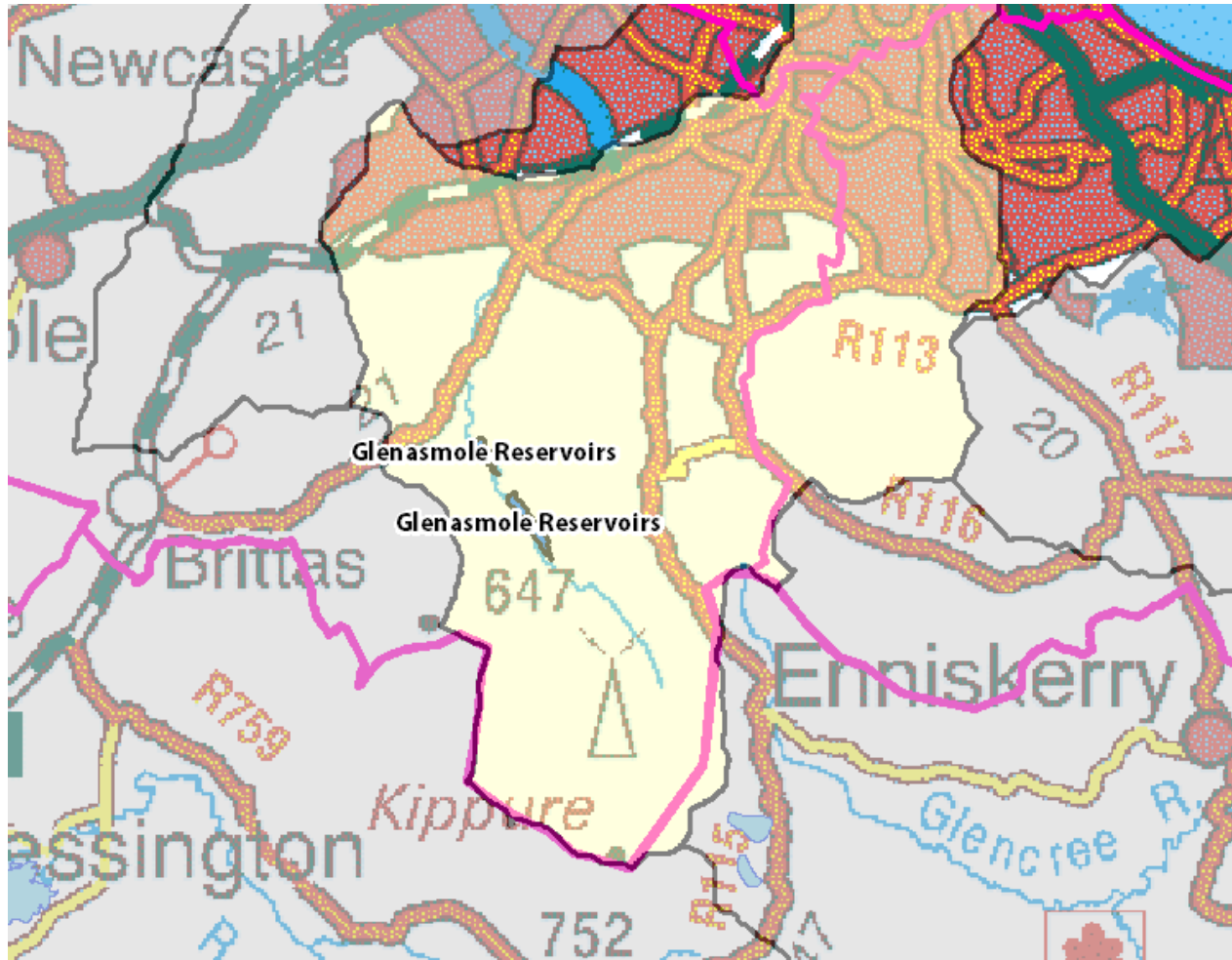
Wastewater Treatment Plants
None.




Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	40%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 		<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	10%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Water Services Act 2007 •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 		<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	10%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 		<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 		<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	40%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Water Services Act 2007 •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 		<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 		<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> •EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) •Foreshore Act (1933) •Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> •An Bord Pleanala, LA, CFB - Inspections •Courts - Enforcement •DEHLG, DEMNR, OPW - Grant Funding •EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency •OPW, EPA, DCMNR - Regulatory Agency •Owner - Funding •Owner, OPW - Implementor 	<ul style="list-style-type: none"> •Apply Heavily Modified Waterbody Measures (See External Document) 	<ul style="list-style-type: none"> •Definition of GEP - EPA •Definition of needs - CFB, NPWS, OPW •Enforcement of new regulations/guidelines - Las •Funding for pilot measures implementation - DEHLG •Implementation sequencing - all owners •Implementation sequencing - LAs •LA resources - DEHLG •Legislation/guidance - DEHLG •Natural recovery - Nature •Planning - NPWS, LA, An Bord Plenala •Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •Maintain good hydrological status •Modernise Abstraction Legislation, including a system for licensing surface water abstractions •Record daily abstraction rates •Record daily water level 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Glenasmole Reservoirs



Symbols	Meaning
	County boundaries
	Water Management Unit
	Lake of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Glenasmole Reservoirs (070)

Water Bodies in WMU	Current Status	Achieve Good Status by
Glenasmole Reservoirs	Good	2009

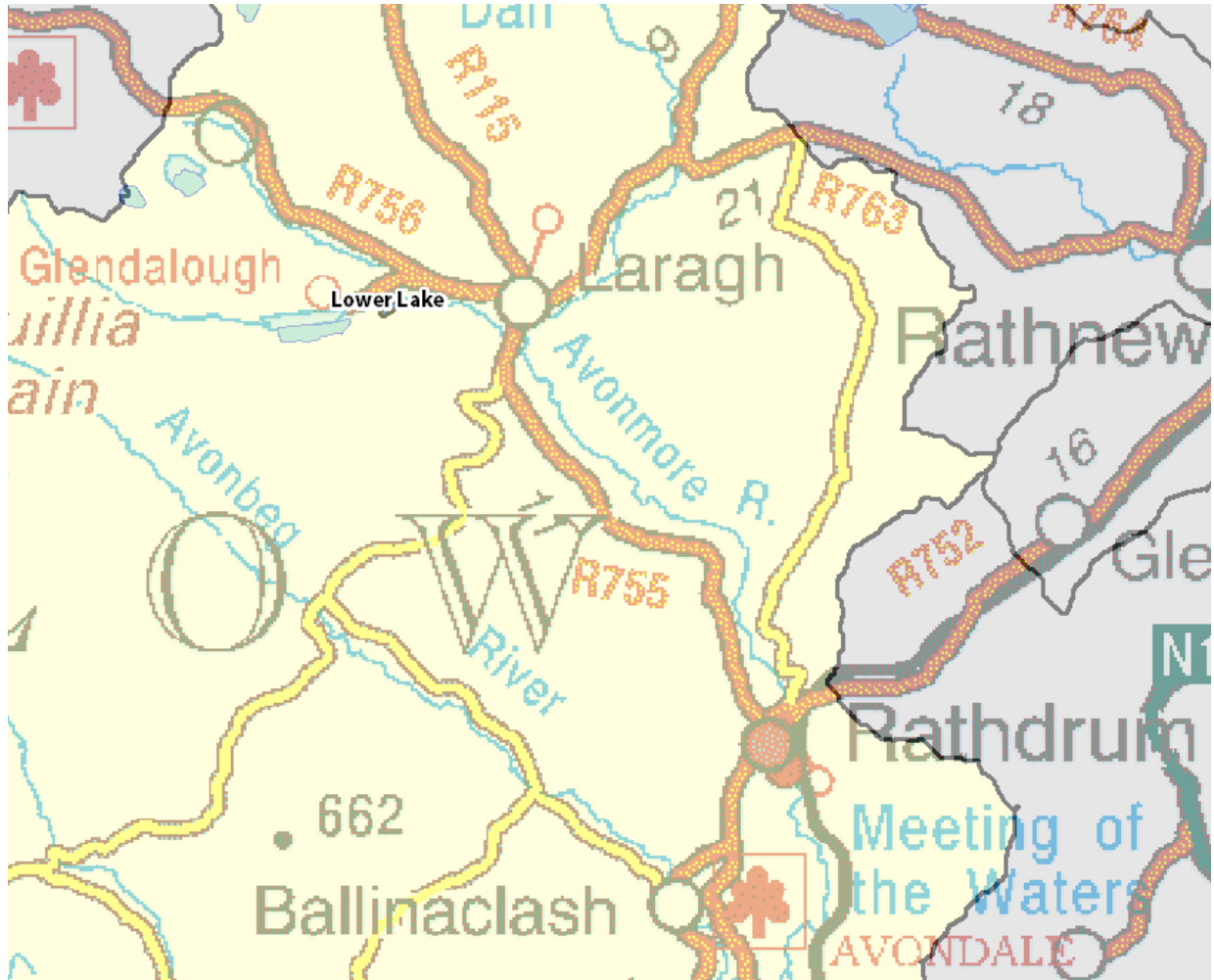
Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	40%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 		<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Water Services Act 2007 •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 		<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 		<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 		<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	40%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Water Services Act 2007 •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 		<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 		<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> •EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) •Foreshore Act (1933) •Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> •An Bord Pleanala, LA, CFB - Inspections •Courts - Enforcement •DEHLG, DEMNR, OPW - Grant Funding •EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency •OPW, EPA, DCMNR - Regulatory Agency •Owner - Funding •Owner, OPW - Implementor 	<ul style="list-style-type: none"> •Apply Heavily Modified Waterbody Measures (See External Document) 	<ul style="list-style-type: none"> •Definition of GEP - EPA •Definition of needs - CFB, NPWS, OPW •Enforcement of new regulations/guidelines - Las •Funding for pilot measures implementation - DEHLG •Implementation sequencing - all owners •Implementation sequencing - LAs •LA resources - DEHLG •Legislation/guidance - DEHLG •Natural recovery - Nature •Planning - NPWS, LA, An Bord Plenala •Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •Modernise Abstraction Legislation, including a system for licensing surface water abstractions •Record daily abstraction rates •Record daily water level 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Lower Lake



Symbols	Meaning
	County boundaries
	Water Management Unit
	Lake of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Glendalough Lower Lake

Water Bodies in WMU	Current Status	Achieve Good Status by
Glendalough Lower Lake	Good	2009

Wastewater Treatment Plants
None.




Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 		<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 		<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	100%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •Forestry Act 1946 and 1988 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Forest Service - Forestry and Aerial Fertilisation Guidelines •Forest Service - Protocol on acid sensitive areas •Implement Forestry and Water Quality Guidelines •Update Forest Service Guidance document on new EQS standards, Aerial Fertilisation Regulations, Updated Acidification protocol. •Update protocol on acid sensitive areas based on acid sensitive areas map and research 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 		<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) EPA (Licensing) Regulations, 1994 & 2004 EPA Waste (Licensing) Regulations, 2004 Local Government (Water Pollution) Act 1 of 1977 and amendments Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) Urban Waste Water Treatment Regulations, 2001 - 2004 Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) Water Services Act 2007 	<ul style="list-style-type: none"> Courts - Enforcement DEHLG - Grant Funding (WSIP) DEHLG, EPA - Regulatory Agency EPA, LA - Inspections EPA, LA - Licensing Agency Plant owner - Funding Plant owner - Implementor 		<ul style="list-style-type: none"> Contract approval - DEHLG WSIP Funding, Owner funding Funding for pilot implementation - DEHLG Inclusion on WSIP planning list - DEHLG Licensing as necessary - EPA Operational improvements - Owner, operator Owner implementation - Owner Planning controls - LAs, An Bord Plenala Preparation of Water Services Strategic Plans - Local Authority Regulatory approvals - DEHLG, EPA WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement EPA Guidance LA - Inspections LA Bye Laws, LA Planning - Licensing Agency Owner - Implementor 		<ul style="list-style-type: none"> Enforcement of new regulations/guidelines - Las Funding of pilot measures - DEHLG Legislation/guidance - DEHLG/EPA Local Authority Resources - DEHLG Natural recovery - Nature Owner funding - Owner Programme implementation sequencing - LAs Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) Foreshore Act (1933) Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> An Bord Pleanala, LA, CFB - Inspections Courts - Enforcement DEHLG, DEMNR, OPW - Grant Funding EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency OPW, EPA, DCMNR - Regulatory Agency Owner - Funding Owner, OPW - Implementor 		<ul style="list-style-type: none"> Definition of GEP - EPA Definition of needs - CFB, NPWS, OPW Enforcement of new regulations/guidelines - Las Funding for pilot measures implementation - DEHLG Implementation sequencing - all owners Implementation sequencing - LAs LA resources - DEHLG Legislation/guidance - DEHLG Natural recovery - Nature Planning - NPWS, LA, An Bord Plenala Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> National Water Pricing Policy Framework (1998) Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) Water Supplies Act 1942 	<ul style="list-style-type: none"> Abstractor - Implementor An Bord Plenala, LA, DEMNR - Planning Courts - Enforcement DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) EPA, DEMNR - Regulatory Agency EPA, LA - Inspections EPA, LA, DEMNR - Licensing Agency 	•No Measure Needed	<ul style="list-style-type: none"> Enforcement - EPA Evaluation methodology - DEHLG, EPA Funding - DEHLG Natural recovery time - Nature New Regulations - DEHLG Sequencing of implementation - All listed Agencies

Upper Lake



Symbols	Meaning
	County boundaries
	Water Management Unit
	Lake of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Glendalough Upper Lake

Water Bodies in WMU	Current Status	Achieve Good Status by
Glendalough Upper Lake	High	2009

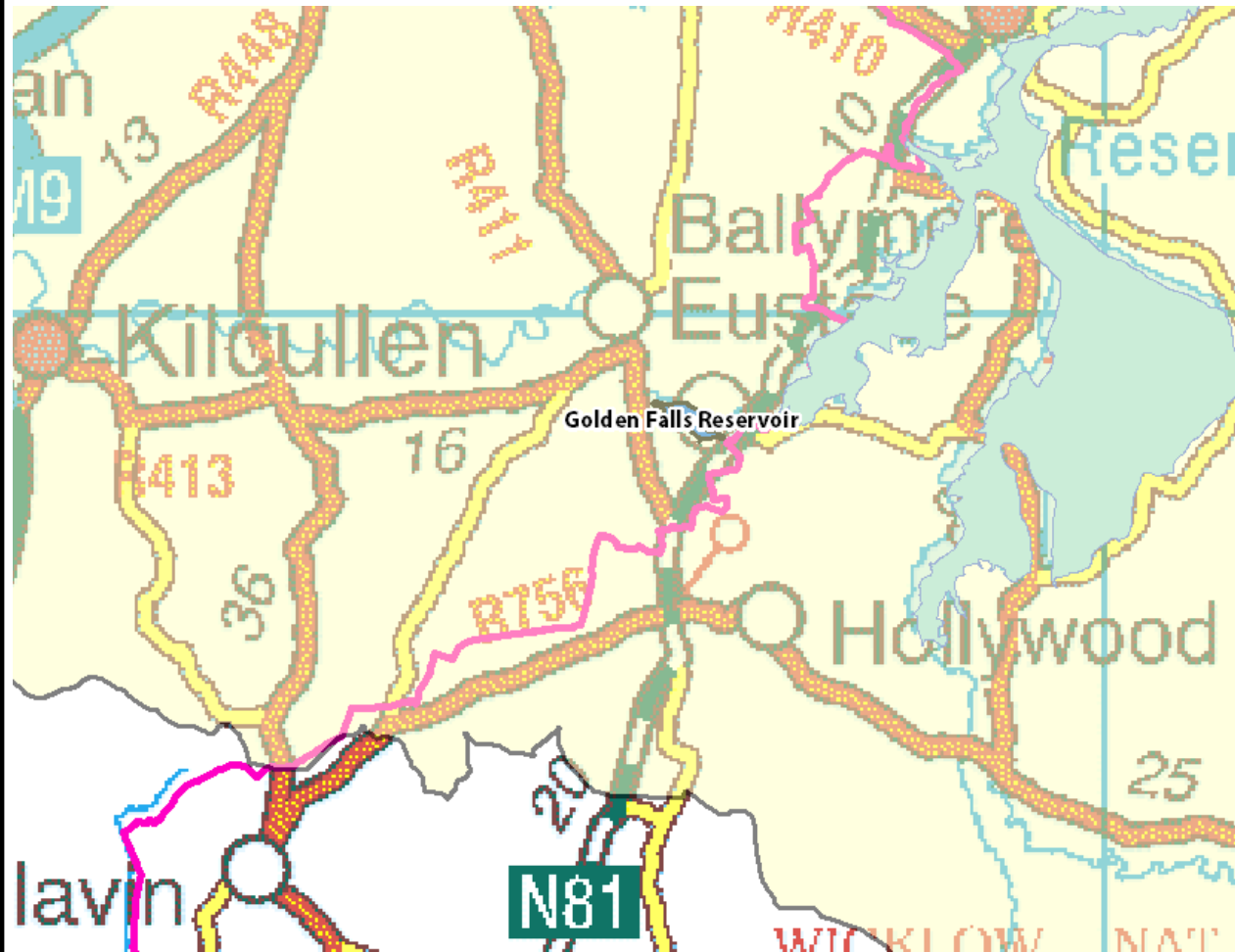
Wastewater Treatment Plants
None.




Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	100%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •Forestry Act 1946 and 1988 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Forest Service - Forestry and Aerial Fertilisation Guidelines •Forest Service - Protocol on acid sensitive areas •Further investigation/monitoring required •Implement Forestry and Water Quality Guidelines •Update Forest Service Guidance document on new EQS standards, Aerial Fertilisation Regulations, Updated Acidification protocol. •Update protocol on acid sensitive areas based on acid sensitive areas map and research 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) EPA (Licensing) Regulations, 1994 & 2004 EPA Waste (Licensing) Regulations, 2004 Local Government (Water Pollution) Act 1 of 1977 and amendments Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) Urban Waste Water Treatment Regulations, 2001 - 2004 Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) Water Services Act 2007 	<ul style="list-style-type: none"> Courts - Enforcement DEHLG - Grant Funding (WSIP) DEHLG, EPA - Regulatory Agency EPA, LA - Inspections EPA, LA - Licensing Agency Plant owner - Funding Plant owner - Implementor 	<ul style="list-style-type: none"> Further investigation/monitoring required 	<ul style="list-style-type: none"> Contract approval - DEHLG WSIP Funding, Owner funding Funding for pilot implementation - DEHLG Inclusion on WSIP planning list - DEHLG Licensing as necessary - EPA Operational improvements - Owner, operator Owner implementation - Owner Planning controls - LAs, An Bord Plenala Preparation of Water Services Strategic Plans - Local Authority Regulatory approvals - DEHLG, EPA WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement EPA Guidance LA - Inspections LA Bye Laws, LA Planning - Licensing Agency Owner - Implementor 	<ul style="list-style-type: none"> Further investigation/monitoring required 	<ul style="list-style-type: none"> Enforcement of new regulations/guidelines - Las Funding of pilot measures - DEHLG Legislation/guidance - DEHLG/EPA Local Authority Resources - DEHLG Natural recovery - Nature Owner funding - Owner Programme implementation sequencing - LAs Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) Foreshore Act (1933) Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> An Bord Pleanala, LA, CFB - Inspections Courts - Enforcement DEHLG, DEMNR, OPW - Grant Funding EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency OPW, EPA, DCMNR - Regulatory Agency Owner - Funding Owner, OPW - Implementor 	<ul style="list-style-type: none"> No Measure Required 	<ul style="list-style-type: none"> Definition of GEP - EPA Definition of needs - CFB, NPWS, OPW Enforcement of new regulations/guidelines - Las Funding for pilot measures implementation - DEHLG Implementation sequencing - all owners Implementation sequencing - LAs LA resources - DEHLG Legislation/guidance - DEHLG Natural recovery - Nature Planning - NPWS, LA, An Bord Pleanala Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> National Water Pricing Policy Framework (1998) Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) Water Supplies Act 1942 	<ul style="list-style-type: none"> Abstractor - Implementor An Bord Pleanala, LA, DEMNR - Planning Courts - Enforcement DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) EPA, DEMNR - Regulatory Agency EPA, LA - Inspections EPA, LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> No Measure Needed 	<ul style="list-style-type: none"> Enforcement - EPA Evaluation methodology - DEHLG, EPA Funding - DEHLG Natural recovery time - Nature New Regulations - DEHLG Sequencing of implementation - All listed Agencies

Golden Falls Reservoir



Symbols	Meaning
	County boundaries
	Water Management Unit
	Lake of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Golden Falls Reservoir

Water Bodies in WMU	Current Status	Achieve Good Status by
Golden Falls Reservoir	Moderate	2021

Wastewater Treatment Plants

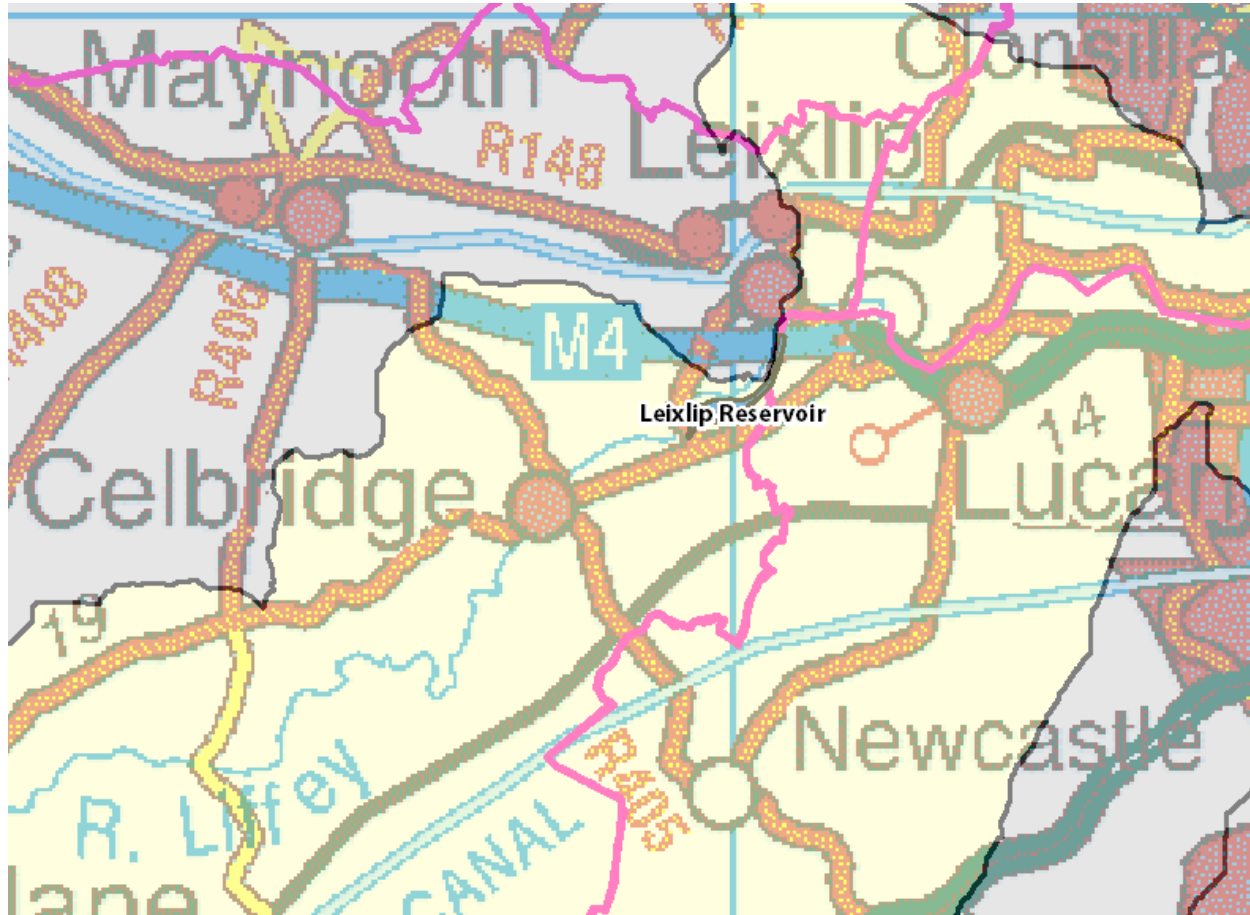
None.




Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio-Chemical)	40%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Planning Development Acts 2000 - 2006 •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Develop riparian buffers •Further investigation/monitoring required •Restrict cattle access to rivers - Create cattle drinking points 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Planning Development Acts 2000 - 2006 •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	10%	<ul style="list-style-type: none"> •Planning Development Acts 2000 - 2006 •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Develop riparian buffers •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •Planning Development Acts 2000 - 2006 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio-Chemical)	30%	<ul style="list-style-type: none"> •Planning Development Acts 2000 - 2006 •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio-Chemical)	10%	<ul style="list-style-type: none"> •Planning Development Acts 2000 - 2006 •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •EPA - Code of Practice for Wastewater Treatment Systems for Single Houses •Further investigation/monitoring required •OSWTS risk matrices to be integrated into Development Plans and Local Area Plans 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - LAs •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> •EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) •Foreshore Act (1933) •Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> •An Bord Pleanala, LA, CFB - Inspections •Courts - Enforcement •DEHLG, DEMNR, OPW - Grant Funding •EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency •OPW, EPA, DCMNR - Regulatory Agency •Owner - Funding •Owner, OPW - Implementor 		<ul style="list-style-type: none"> •Definition of GEP - EPA •Definition of needs - CFB, NPWS, OPW •Enforcement of new regulations/guidelines - LAs •Funding for pilot measures implementation - DEHLG •Implementation sequencing - all owners •Implementation sequencing - LAs •LA resources - DEHLG •Legislation/guidance - DEHLG •Natural recovery - Nature •Planning - NPWS, LA, An Bord Plenala •Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •Collect abstraction rates and compensation flow releases on a continuous bases •Further Research on Abstraction Pressure effects on lake ecology (national) •Record daily abstraction rates •Record daily water level 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Leixlip Reservoir



Symbols	Meaning
	County boundaries
	Water Management Unit
	Lake of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Leixlip Liffey Reservoir

Water Bodies in WMU	Current Status	Achieve Good Status by
Leixlip Liffey Reservoir	Moderate	2021

Wastewater Treatment Plants

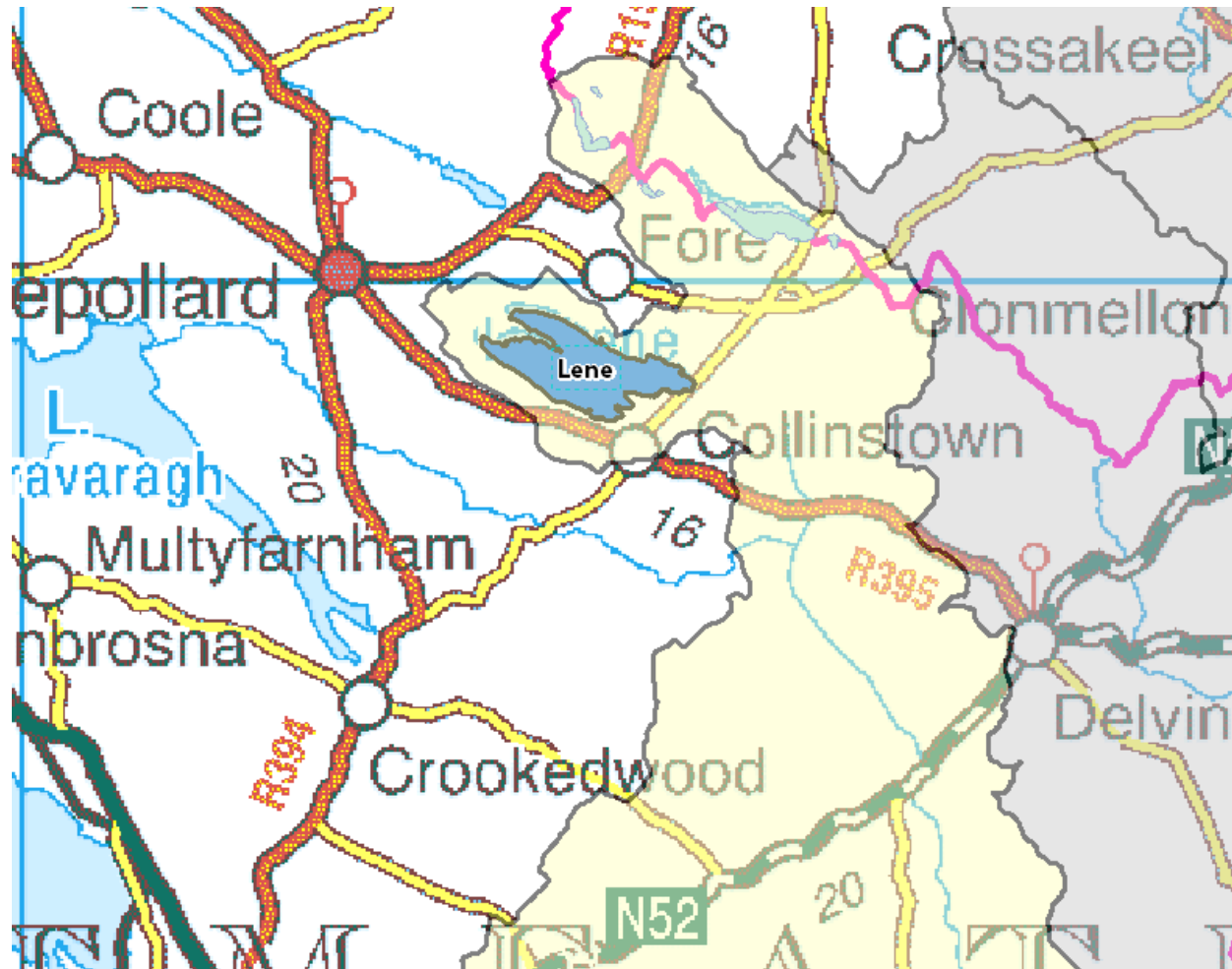
None.




Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio-Chemical)	10%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	10%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •Water Services Act 2007 •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	10%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	10%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures / Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio-Chemical)	40%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •Water Services Act 2007 •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio-Chemical)	10%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> •EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) •Foreshore Act (1933) •Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> •An Bord Pleanala, LA, CFB - Inspections •Courts - Enforcement •DEHLG, DEMNR, OPW - Grant Funding •EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency •OPW, EPA, DCMNR - Regulatory Agency •Owner - Funding •Owner, OPW - Implementor 	<ul style="list-style-type: none"> •Apply Heavily Modified Waterbody Measures (See External Document) 	<ul style="list-style-type: none"> •Definition of GEP - EPA •Definition of needs - CFB, NPWS, OPW •Enforcement of new regulations/guidelines - Las •Funding for pilot measures implementation - DEHLG •Implementation sequencing - all owners •Implementation sequencing - LAs •LA resources - DEHLG •Legislation/guidance - DEHLG •Natural recovery - Nature •Planning - NPWS, LA, An Bord Plenala •Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •Modernise Abstraction Legislation, including a system for licensing surface water abstractions •Record daily abstraction rates •Record daily water level 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Lene Reservoir



Symbols	Meaning
	County boundaries
	Water Management Unit
	Lake of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Lene (Lough)

Water Bodies in WMU	Current Status	Achieve Good Status by
Lene (Lough)	Moderate	2015

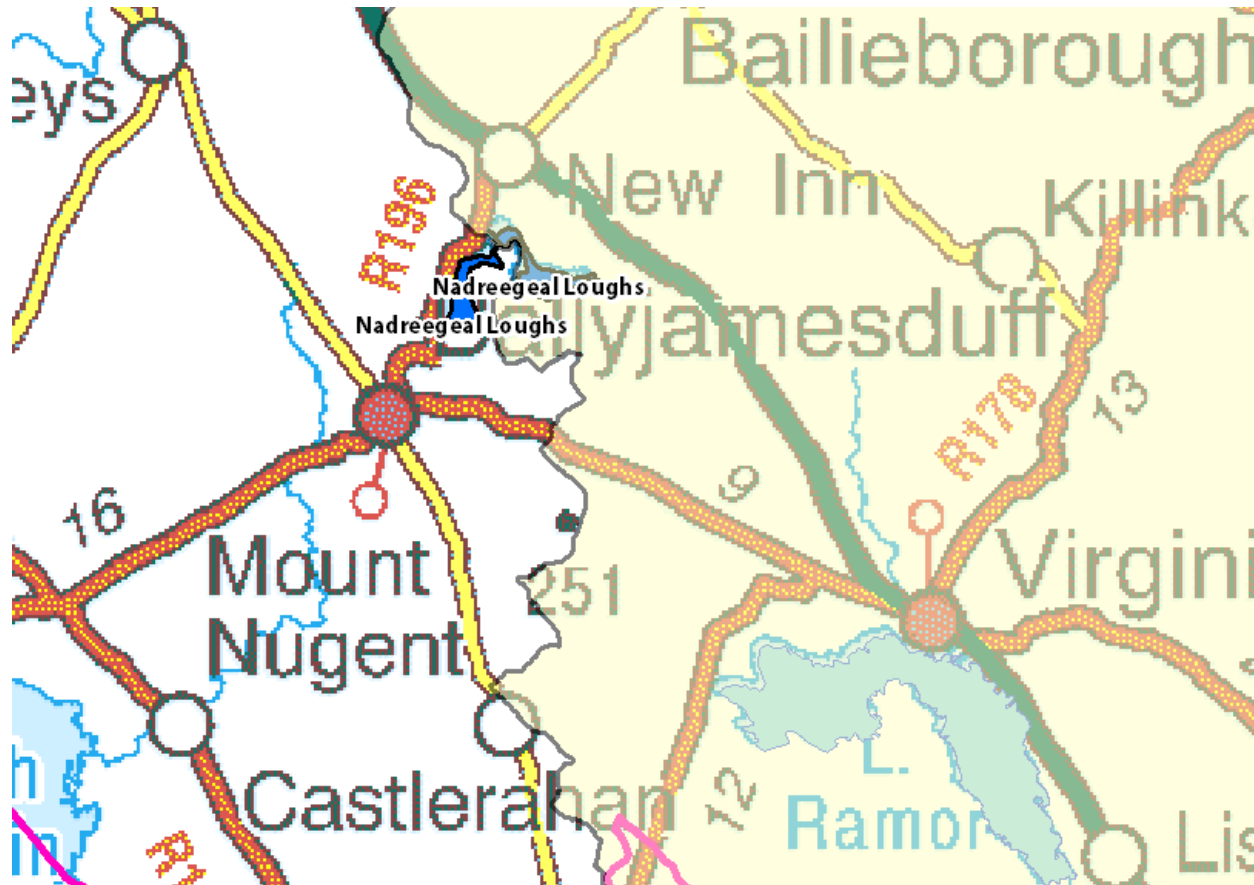
Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	20%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	10%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	10%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> •EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) •Foreshore Act (1933) •Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> •An Bord Pleanala, LA, CFB - Inspections •Courts - Enforcement •DEHLG, DEMNR, OPW - Grant Funding •EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency •OPW, EPA, DCMNR - Regulatory Agency •Owner - Funding •Owner, OPW - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Definition of GEP - EPA •Definition of needs - CFB, NPWS, OPW •Enforcement of new regulations/guidelines - Las •Funding for pilot measures implementation - DEHLG •Implementation sequencing - all owners •Implementation sequencing - LAs •LA resources - DEHLG •Legislation/guidance - DEHLG •Natural recovery - Nature •Planning - NPWS, LA, An Bord Plenala •Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Water Supplies Act 1942 •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •Modernise Abstraction Legislation, including a system for licensing surface water abstractions •Record daily abstraction rates •Record daily water level 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Nadreegeal Loughs



Symbols	Meaning
	County boundaries
	Water Management Unit
	Lake of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Nadreegeal Loughs

Water Bodies in WMU	Current Status	Achieve Good Status by
Nadreegeal Loughs	Moderate	2015

Wastewater Treatment Plants

None.




Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	100%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 		<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 		<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 		<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 		<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) EPA (Licensing) Regulations, 1994 & 2004 EPA Waste (Licensing) Regulations, 2004 Local Government (Water Pollution) Act 1 of 1977 and amendments Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) Urban Waste Water Treatment Regulations, 2001 - 2004 Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) Water Services Act 2007 	<ul style="list-style-type: none"> Courts - Enforcement DEHLG - Grant Funding (WSIP) DEHLG, EPA - Regulatory Agency EPA, LA - Inspections EPA, LA - Licensing Agency Plant owner - Funding Plant owner - Implementor 		<ul style="list-style-type: none"> Contract approval - DEHLG WSIP Funding, Owner funding Funding for pilot implementation - DEHLG Inclusion on WSIP planning list - DEHLG Licensing as necessary - EPA Operational improvements - Owner, operator Owner implementation - Owner Planning controls - LAs, An Bord Plenala Preparation of Water Services Strategic Plans - Local Authority Regulatory approvals - DEHLG, EPA WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement EPA Guidance LA - Inspections LA Bye Laws, LA Planning - Licensing Agency Owner - Implementor 		<ul style="list-style-type: none"> Enforcement of new regulations/guidelines - Las Funding of pilot measures - DEHLG Legislation/guidance - DEHLG/EPA Local Authority Resources - DEHLG Natural recovery - Nature Owner funding - Owner Programme implementation sequencing - LAs Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) Foreshore Act (1933) Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> An Bord Pleanala, LA, CFB - Inspections Courts - Enforcement DEHLG, DEMNR, OPW - Grant Funding EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency OPW, EPA, DCMNR - Regulatory Agency Owner - Funding Owner, OPW - Implementor 	•No Measure Required	<ul style="list-style-type: none"> Definition of GEP - EPA Definition of needs - CFB, NPWS, OPW Enforcement of new regulations/guidelines - Las Funding for pilot measures implementation - DEHLG Implementation sequencing - all owners Implementation sequencing - LAs LA resources - DEHLG Legislation/guidance - DEHLG Natural recovery - Nature Planning - NPWS, LA, An Bord Pleanala Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> National Water Pricing Policy Framework (1998) Water Supplies Act 1942 Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) 	<ul style="list-style-type: none"> Abstractor - Implementor An Bord Pleanala, LA, DEMNR - Planning Courts - Enforcement DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) EPA, DEMNR - Regulatory Agency EPA, LA - Inspections EPA, LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> Further investigation/monitoring required Modernise Abstraction Legislation, including a system for licensing surface water abstractions Record daily abstraction rates Record daily water level 	<ul style="list-style-type: none"> Enforcement - EPA Evaluation methodology - DEHLG, EPA Funding - DEHLG Natural recovery time - Nature New Regulations - DEHLG Sequencing of implementation - All listed Agencies

Nahanagan Lough



Symbols	Meaning
	County boundaries
	Water Management Unit
	Lake of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Nahanagan (Lough)

Water Bodies in WMU	Current Status	Achieve Good Status by
Nahanagan (Lough)	Good	2009

Wastewater Treatment Plants
None.




Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio-Chemical)	20%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	10%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) EPA (Licensing) Regulations, 1994 & 2004 EPA Waste (Licensing) Regulations, 2004 Local Government (Water Pollution) Act 1 of 1977 and amendments Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) Urban Waste Water Treatment Regulations, 2001 - 2004 Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) Water Services Act 2007 	<ul style="list-style-type: none"> Courts - Enforcement DEHLG - Grant Funding (WSIP) DEHLG, EPA - Regulatory Agency EPA, LA - Inspections EPA, LA - Licensing Agency Plant owner - Funding Plant owner - Implementor 	<ul style="list-style-type: none"> No Measure Required 	<ul style="list-style-type: none"> Contract approval - DEHLG WSIP Funding, Owner funding Funding for pilot implementation - DEHLG Inclusion on WSIP planning list - DEHLG Licensing as necessary - EPA Operational improvements - Owner, operator Owner implementation - Owner Planning controls - LAs, An Bord Plenala Preparation of Water Services Strategic Plans - Local Authority Regulatory approvals - DEHLG, EPA WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	10%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement EPA Guidance LA - Inspections LA Bye Laws, LA Planning - Licensing Agency Owner - Implementor 	<ul style="list-style-type: none"> No Measure Required 	<ul style="list-style-type: none"> Enforcement of new regulations/guidelines - Las Funding of pilot measures - DEHLG Legislation/guidance - DEHLG/EPA Local Authority Resources - DEHLG Natural recovery - Nature Owner funding - Owner Programme implementation sequencing - LAs Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) Foreshore Act (1933) Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> An Bord Pleanala, LA, CFB - Inspections Courts - Enforcement DEHLG, DEMNR, OPW - Grant Funding EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency OPW, EPA, DCMNR - Regulatory Agency Owner - Funding Owner, OPW - Implementor 	<ul style="list-style-type: none"> Apply Heavily Modified Waterbody Measures (See External Document) 	<ul style="list-style-type: none"> Definition of GEP - EPA Definition of needs - CFB, NPWS, OPW Enforcement of new regulations/guidelines - Las Funding for pilot measures implementation - DEHLG Implementation sequencing - all owners Implementation sequencing - LAs LA resources - DEHLG Legislation/guidance - DEHLG Natural recovery - Nature Planning - NPWS, LA, An Bord Pleanala Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> National Water Pricing Policy Framework (1998) Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) Water Supplies Act 1942 	<ul style="list-style-type: none"> Abstractor - Implementor An Bord Pleanala, LA, DEMNR - Planning Courts - Enforcement DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) EPA, DEMNR - Regulatory Agency EPA, LA - Inspections EPA, LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> No Measure Needed 	<ul style="list-style-type: none"> Enforcement - EPA Evaluation methodology - DEHLG, EPA Funding - DEHLG Natural recovery time - Nature New Regulations - DEHLG Sequencing of implementation - All listed Agencies

Ouler Lough



Symbols	Meaning
	County boundaries
	Water Management Unit
	Lake of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Ouler (Lough)

Water Bodies in WMU	Current Status	Achieve Good Status by
Ouler (Lough)	Good	2009

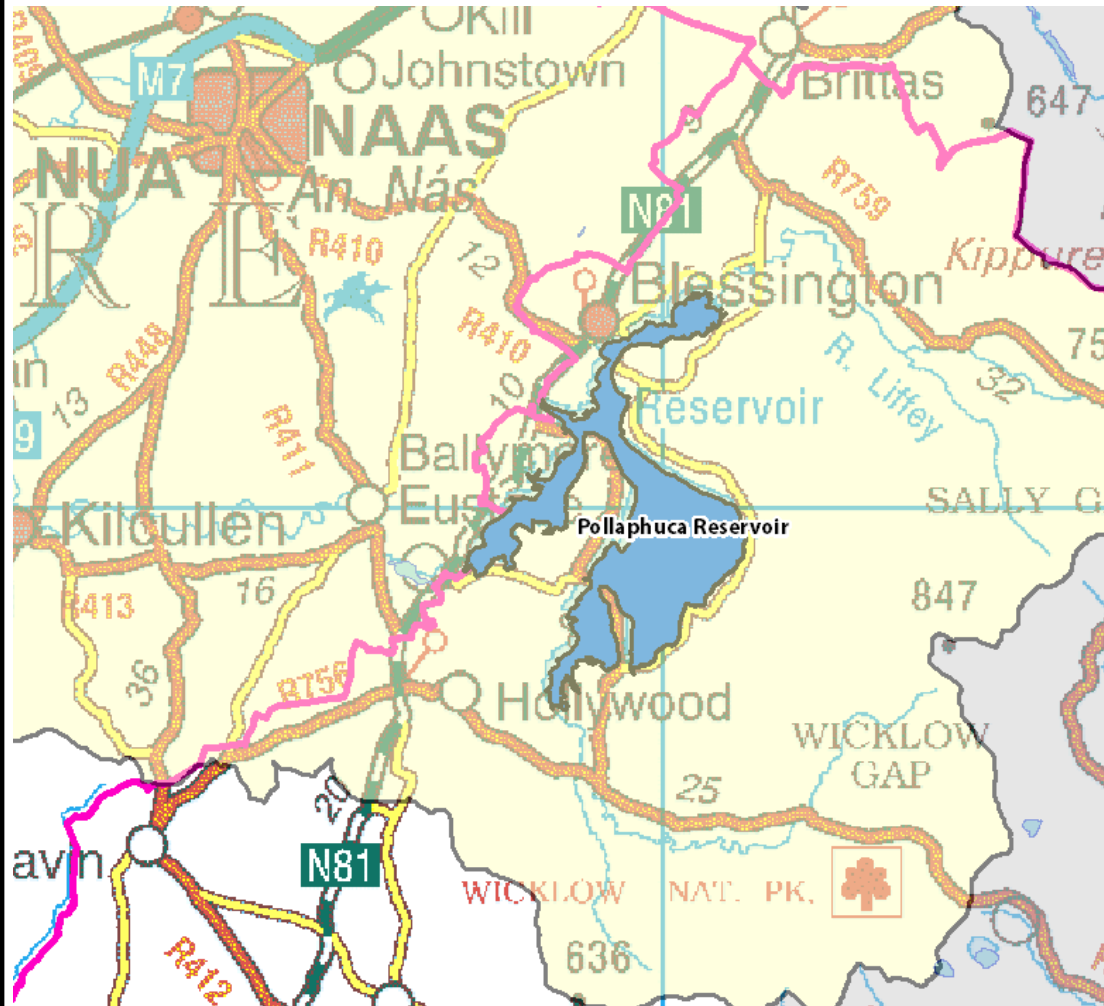
Wastewater Treatment Plants
None.




Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio-Chemical)	20%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •No Measure Required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Further investigation/monitoring required •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
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Wastewater/ Unsewered (Physio- Chemical)	10%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement EPA Guidance LA - Inspections LA Bye Laws, LA Planning - Licensing Agency Owner - Implementor 	<ul style="list-style-type: none"> Further investigation/monitoring required No Measure Required 	<ul style="list-style-type: none"> Enforcement of new regulations/guidelines - Las Funding of pilot measures - DEHLG Legislation/guidance - DEHLG/EPA Local Authority Resources - DEHLG Natural recovery - Nature Owner funding - Owner Programme implementation sequencing - LAs Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) Foreshore Act (1933) Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> An Bord Pleanala, LA, CFB - Inspections Courts - Enforcement DEHLG, DEMNR, OPW - Grant Funding EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency OPW, EPA, DCMNR - Regulatory Agency Owner - Funding Owner, OPW - Implementor 	<ul style="list-style-type: none"> No Measure Required 	<ul style="list-style-type: none"> Definition of GEP - EPA Definition of needs - CFB, NPWS, OPW Enforcement of new regulations/guidelines - Las Funding for pilot measures implementation - DEHLG Implementation sequencing - all owners Implementation sequencing - LAs LA resources - DEHLG Legislation/guidance - DEHLG Natural recovery - Nature Planning - NPWS, LA, An Bord Plenala Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> National Water Pricing Policy Framework (1998) Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) Water Supplies Act 1942 	<ul style="list-style-type: none"> Abstractor - Implementor An Bord Plenala, LA, DEMNR - Planning Courts - Enforcement DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) EPA, DEMNR - Regulatory Agency EPA, LA - Inspections EPA, LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> No Measure Needed 	<ul style="list-style-type: none"> Enforcement - EPA Evaluation methodology - DEHLG, EPA Funding - DEHLG Natural recovery time - Nature New Regulations - DEHLG Sequencing of implementation - All listed Agencies

Pollaphuca Reservoir



Symbols	Meaning
	County boundaries
	Water Management Unit
	Lake of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Pollaphuca Reservoir

Water Bodies in WMU	Current Status	Achieve Good Status by
Pollaphuca Reservoir	Moderate	2021

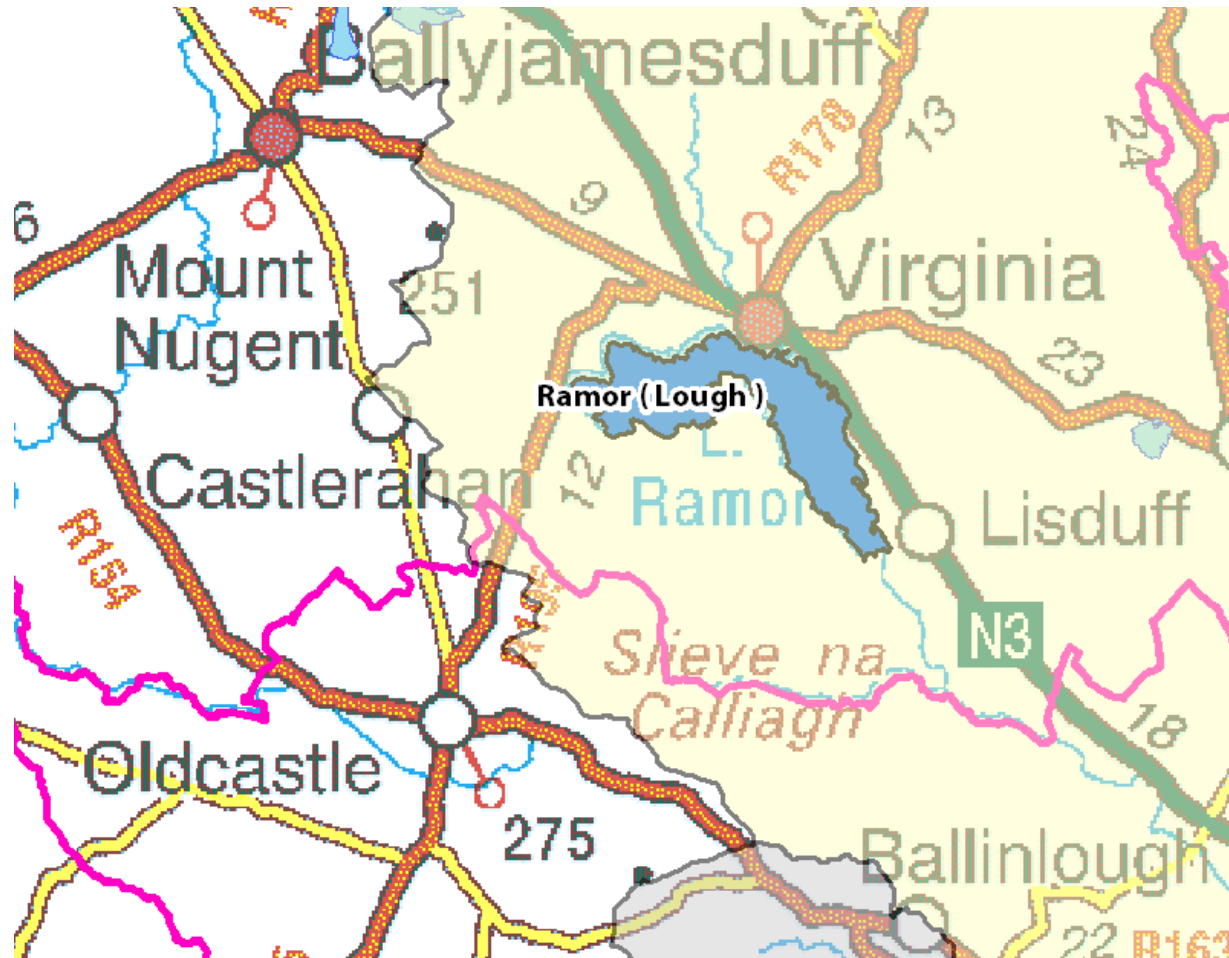
Wastewater Treatment Plants
None.




Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	20%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 		<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	10%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 		<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	10%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •Forestry Act 1946 and 1988 •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 		<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	30%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EPA Waste (Licensing) Regulations, 2004 •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 		<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	20%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003.) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 		<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 		<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> •EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) •Foreshore Act (1933) •Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> •An Bord Pleanala, LA, CFB - Inspections •Courts - Enforcement •DEHLG, DEMNR, OPW - Grant Funding •EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency •OPW, EPA, DCMNR - Regulatory Agency •Owner - Funding •Owner, OPW - Implementor 	<ul style="list-style-type: none"> •Apply Heavily Modified Waterbody Measures (See External Document) 	<ul style="list-style-type: none"> •Definition of GEP - EPA •Definition of needs - CFB, NPWS, OPW •Enforcement of new regulations/guidelines - Las •Funding for pilot measures implementation - DEHLG •Implementation sequencing - all owners •Implementation sequencing - LAs •LA resources - DEHLG •Legislation/guidance - DEHLG •Natural recovery - Nature •Planning - NPWS, LA, An Bord Pleanala •Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Pleanala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •Modernise Abstraction Legislation, including a system for licensing surface water abstractions •Record daily abstraction rates •Record daily water level 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Ramor Lough



Symbols	Meaning
	County boundaries
	Water Management Unit
	Lake of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Ramor (Lough)

Water Bodies in WMU	Current Status	Achieve Good Status by
Ramor (Lough)	Bad	2027

Wastewater Treatment Plants

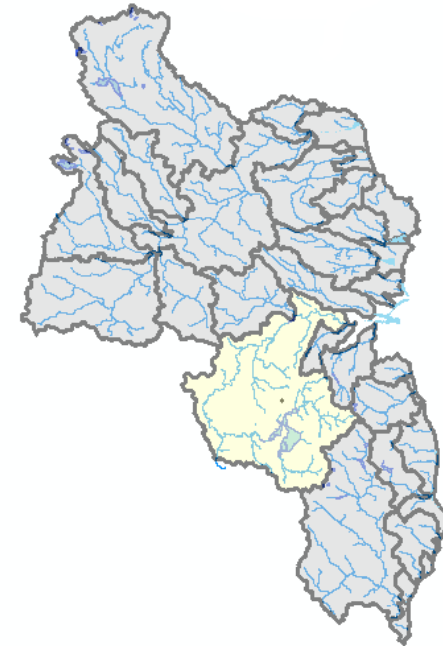
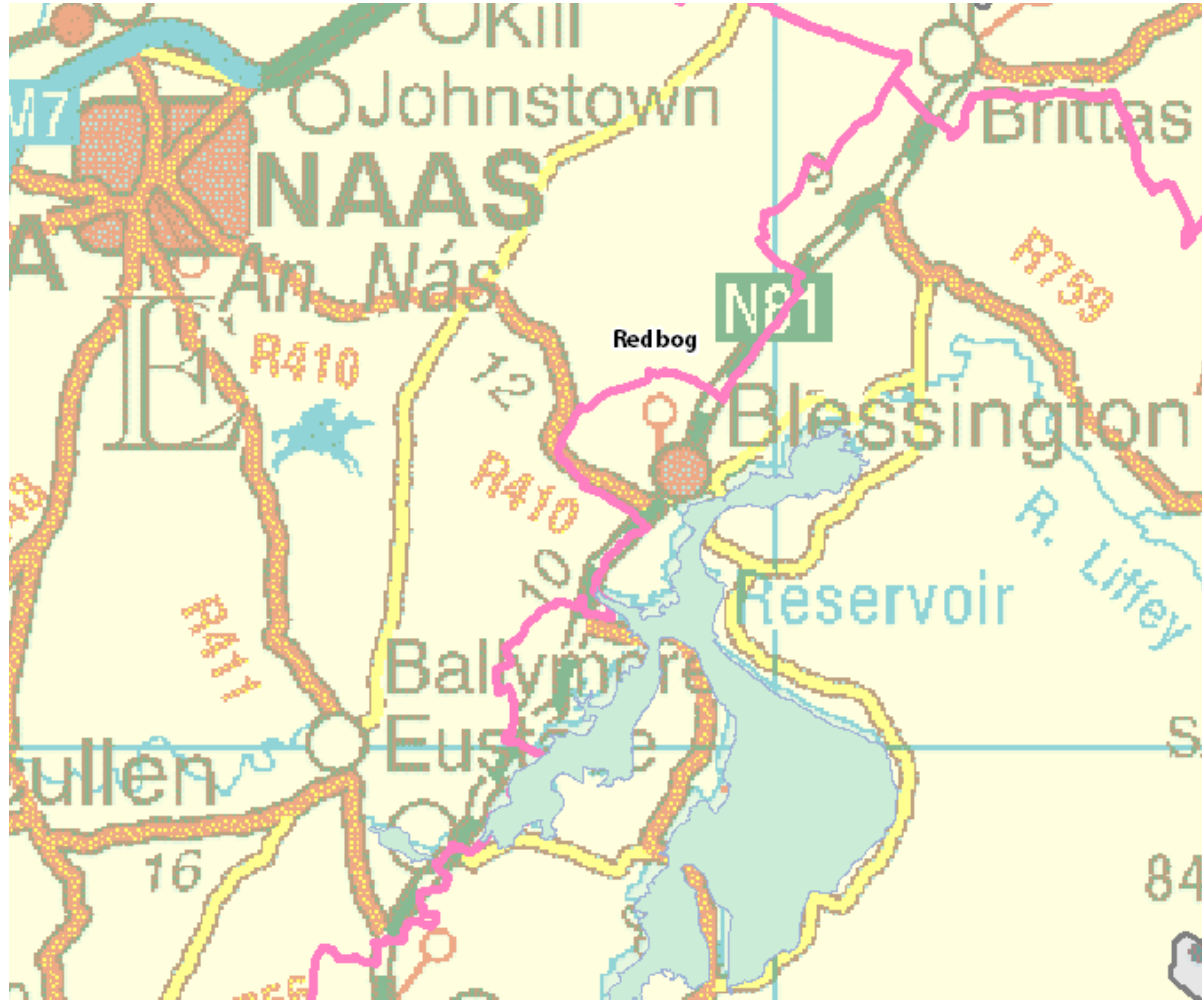
Virginia WwTW




Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	70%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 		<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EPA (Licensing) Regulations, 1994 & 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 		<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 		<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 		<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	10%	<ul style="list-style-type: none"> •EPA (Licensing) Regulations, 1994 & 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003.) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 		<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	10%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Develop septic system management programme •Enforce regulations on septic systems •EPA - Code of Practice for Wastewater Treatment Systems for Single Houses 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> •EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) •Foreshore Act (1933) •Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> •An Bord Pleanala, LA, CFB - Inspections •Courts - Enforcement •DEHLG, DEMNR, OPW - Grant Funding •EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency •OPW, EPA, DCMNR - Regulatory Agency •Owner - Funding •Owner, OPW - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Definition of GEP - EPA •Definition of needs - CFB, NPWS, OPW •Enforcement of new regulations/guidelines - Las •Funding for pilot measures implementation - DEHLG •Implementation sequencing - all owners •Implementation sequencing - LAs •LA resources - DEHLG •Legislation/guidance - DEHLG •Natural recovery - Nature •Planning - NPWS, LA, An Bord Plenala •Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Redbog Lough



Symbols	Meaning
	County boundaries
	Water Management Unit
	Lake of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Redbog

Water Bodies in WMU	Current Status	Achieve Good Status by
Redbog	Good	2009

Wastewater Treatment Plants
None.




Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	20%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •No Measure Required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Further investigation/monitoring required •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	10%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) EPA (Licensing) Regulations, 1994 & 2004 EPA Waste (Licensing) Regulations, 2004 Local Government (Water Pollution) Act 1 of 1977 and amendments Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) Urban Waste Water Treatment Regulations, 2001 - 2004 Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) Water Services Act 2007 	<ul style="list-style-type: none"> Courts - Enforcement DEHLG - Grant Funding (WSIP) DEHLG, EPA - Regulatory Agency EPA, LA - Inspections EPA, LA - Licensing Agency Plant owner - Funding Plant owner - Implementor 	<ul style="list-style-type: none"> Further investigation/monitoring required No Measure Required 	<ul style="list-style-type: none"> Contract approval - DEHLG WSIP Funding, Owner funding Funding for pilot implementation - DEHLG Inclusion on WSIP planning list - DEHLG Licensing as necessary - EPA Operational improvements - Owner, operator Owner implementation - Owner Planning controls - LAs, An Bord Plenala Preparation of Water Services Strategic Plans - Local Authority Regulatory approvals - DEHLG, EPA WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	10%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement EPA Guidance LA - Inspections LA Bye Laws, LA Planning - Licensing Agency Owner - Implementor 	<ul style="list-style-type: none"> Further investigation/monitoring required No Measure Required 	<ul style="list-style-type: none"> Enforcement of new regulations/guidelines - Las Funding of pilot measures - DEHLG Legislation/guidance - DEHLG/EPA Local Authority Resources - DEHLG Natural recovery - Nature Owner funding - Owner Programme implementation sequencing - LAs Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) Foreshore Act (1933) Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> An Bord Pleanala, LA, CFB - Inspections Courts - Enforcement DEHLG, DEMNR, OPW - Grant Funding EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency OPW, EPA, DCMNR - Regulatory Agency Owner - Funding Owner, OPW - Implementor 	<ul style="list-style-type: none"> No Measure Required 	<ul style="list-style-type: none"> Definition of GEP - EPA Definition of needs - CFB, NPWS, OPW Enforcement of new regulations/guidelines - Las Funding for pilot measures implementation - DEHLG Implementation sequencing - all owners Implementation sequencing - LAs LA resources - DEHLG Legislation/guidance - DEHLG Natural recovery - Nature Planning - NPWS, LA, An Bord Pleanala Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> National Water Pricing Policy Framework (1998) Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) Water Supplies Act 1942 	<ul style="list-style-type: none"> Abstractor - Implementor An Bord Pleanala, LA, DEMNR - Planning Courts - Enforcement DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) EPA, DEMNR - Regulatory Agency EPA, LA - Inspections EPA, LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> No Measure Needed 	<ul style="list-style-type: none"> Enforcement - EPA Evaluation methodology - DEHLG, EPA Funding - DEHLG Natural recovery time - Nature New Regulations - DEHLG Sequencing of implementation - All listed Agencies

Skeagh Lough Upper



Symbols	Meaning
	County boundaries
	Water Management Unit
	Lake of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Upper Lough Skeagh

Water Bodies in WMU	Current Status	Achieve Good Status by
Upper Lough Skeagh	Poor	2015

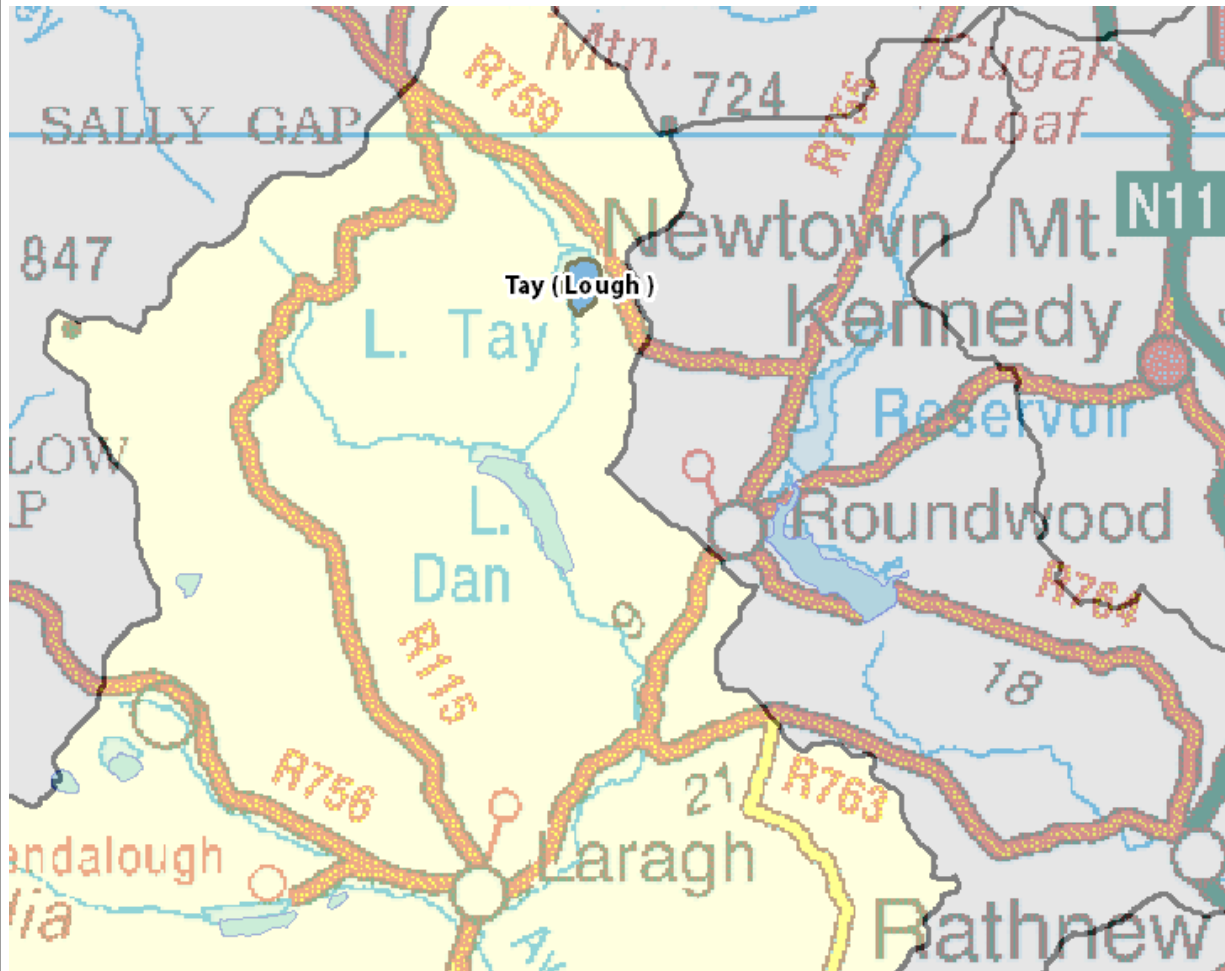
Wastewater Treatment Plants
None.




Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	70%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 		<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 		<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 		<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 		<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) EPA (Licensing) Regulations, 1994 & 2004 EPA Waste (Licensing) Regulations, 2004 Local Government (Water Pollution) Act 1 of 1977 and amendments Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) Urban Waste Water Treatment Regulations, 2001 - 2004 Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) Water Services Act 2007 	<ul style="list-style-type: none"> Courts - Enforcement DEHLG - Grant Funding (WSIP) DEHLG, EPA - Regulatory Agency EPA, LA - Inspections EPA, LA - Licensing Agency Plant owner - Funding Plant owner - Implementor 		<ul style="list-style-type: none"> Contract approval - DEHLG WSIP Funding, Owner funding Funding for pilot implementation - DEHLG Inclusion on WSIP planning list - DEHLG Licensing as necessary - EPA Operational improvements - Owner, operator Owner implementation - Owner Planning controls - LAs, An Bord Plenala Preparation of Water Services Strategic Plans - Local Authority Regulatory approvals - DEHLG, EPA WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	30%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement EPA Guidance LA - Inspections LA Bye Laws, LA Planning - Licensing Agency Owner - Implementor 	<ul style="list-style-type: none"> Develop septic system management programme Enforce regulations on septic systems EPA - Code of Practice for Wastewater Treatment Systems for Single Houses 	<ul style="list-style-type: none"> Enforcement of new regulations/guidelines - Las Funding of pilot measures - DEHLG Legislation/guidance - DEHLG/EPA Local Authority Resources - DEHLG Natural recovery - Nature Owner funding - Owner Programme implementation sequencing - LAs Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) Foreshore Act (1933) Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> An Bord Pleanala, LA, CFB - Inspections Courts - Enforcement DEHLG, DEMNR, OPW - Grant Funding EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency OPW, EPA, DCMNR - Regulatory Agency Owner - Funding Owner, OPW - Implementor 	<ul style="list-style-type: none"> No Measure Required 	<ul style="list-style-type: none"> Definition of GEP - EPA Definition of needs - CFB, NPWS, OPW Enforcement of new regulations/guidelines - Las Funding for pilot measures implementation - DEHLG Implementation sequencing - all owners Implementation sequencing - LAs LA resources - DEHLG Legislation/guidance - DEHLG Natural recovery - Nature Planning - NPWS, LA, An Bord Pleanala Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> National Water Pricing Policy Framework (1998) Water Supplies Act 1942 Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) 	<ul style="list-style-type: none"> Abstractor - Implementor An Bord Pleanala, LA, DEMNR - Planning Courts - Enforcement DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) EPA, DEMNR - Regulatory Agency EPA, LA - Inspections EPA, LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> Further investigation/monitoring required Modernise Abstraction Legislation, including a system for licensing surface water abstractions Record daily abstraction rates Record daily water level 	<ul style="list-style-type: none"> Enforcement - EPA Evaluation methodology - DEHLG, EPA Funding - DEHLG Natural recovery time - Nature New Regulations - DEHLG Sequencing of implementation - All listed Agencies

Tay Lough



Symbols	Meaning
	County boundaries
	Water Management Unit
	Lake of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Tay (Lough)

Water Bodies in WMU	Current Status	Achieve Good Status by
Tay (Lough)	Good	2009

Wastewater Treatment Plants
None.




Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio-Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 		<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 		<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	100%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •Forestry Act 1946 and 1988 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Forest Service - Forestry and Aerial Fertilisation Guidelines •Implement Forestry and Water Quality Guidelines •Update Forest Service Guidance document on new EQS standards, Aerial Fertilisation Regulations, Updated Acidification protocol. 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 		<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) EPA (Licensing) Regulations, 1994 & 2004 EPA Waste (Licensing) Regulations, 2004 Local Government (Water Pollution) Act 1 of 1977 and amendments Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) Urban Waste Water Treatment Regulations, 2001 - 2004 Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) Water Services Act 2007 	<ul style="list-style-type: none"> Courts - Enforcement DEHLG - Grant Funding (WSIP) DEHLG, EPA - Regulatory Agency EPA, LA - Inspections EPA, LA - Licensing Agency Plant owner - Funding Plant owner - Implementor 		<ul style="list-style-type: none"> Contract approval - DEHLG WSIP Funding, Owner funding Funding for pilot implementation - DEHLG Inclusion on WSIP planning list - DEHLG Licensing as necessary - EPA Operational improvements - Owner, operator Owner implementation - Owner Planning controls - LAs, An Bord Plenala Preparation of Water Services Strategic Plans - Local Authority Regulatory approvals - DEHLG, EPA WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement EPA Guidance LA - Inspections LA Bye Laws, LA Planning - Licensing Agency Owner - Implementor 		<ul style="list-style-type: none"> Enforcement of new regulations/guidelines - Las Funding of pilot measures - DEHLG Legislation/guidance - DEHLG/EPA Local Authority Resources - DEHLG Natural recovery - Nature Owner funding - Owner Programme implementation sequencing - LAs Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) Foreshore Act (1933) Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> An Bord Pleanala, LA, CFB - Inspections Courts - Enforcement DEHLG, DEMNR, OPW - Grant Funding EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency OPW, EPA, DCMNR - Regulatory Agency Owner - Funding Owner, OPW - Implementor 		<ul style="list-style-type: none"> Definition of GEP - EPA Definition of needs - CFB, NPWS, OPW Enforcement of new regulations/guidelines - Las Funding for pilot measures implementation - DEHLG Implementation sequencing - all owners Implementation sequencing - LAs LA resources - DEHLG Legislation/guidance - DEHLG Natural recovery - Nature Planning - NPWS, LA, An Bord Plenala Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> National Water Pricing Policy Framework (1998) Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) Water Supplies Act 1942 	<ul style="list-style-type: none"> Abstractor - Implementor An Bord Plenala, LA, DEMNR - Planning Courts - Enforcement DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) EPA, DEMNR - Regulatory Agency EPA, LA - Inspections EPA, LA, DEMNR - Licensing Agency 	•No Measure Needed	<ul style="list-style-type: none"> Enforcement - EPA Evaluation methodology - DEHLG, EPA Funding - DEHLG Natural recovery time - Nature New Regulations - DEHLG Sequencing of implementation - All listed Agencies

Turlough Hill



Symbols	Meaning
	County boundaries
	Water Management Unit
	Lake of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Turlough Hill

Water Bodies in WMU	Current Status	Achieve Good Status by
Turlough Hill	Good	2009

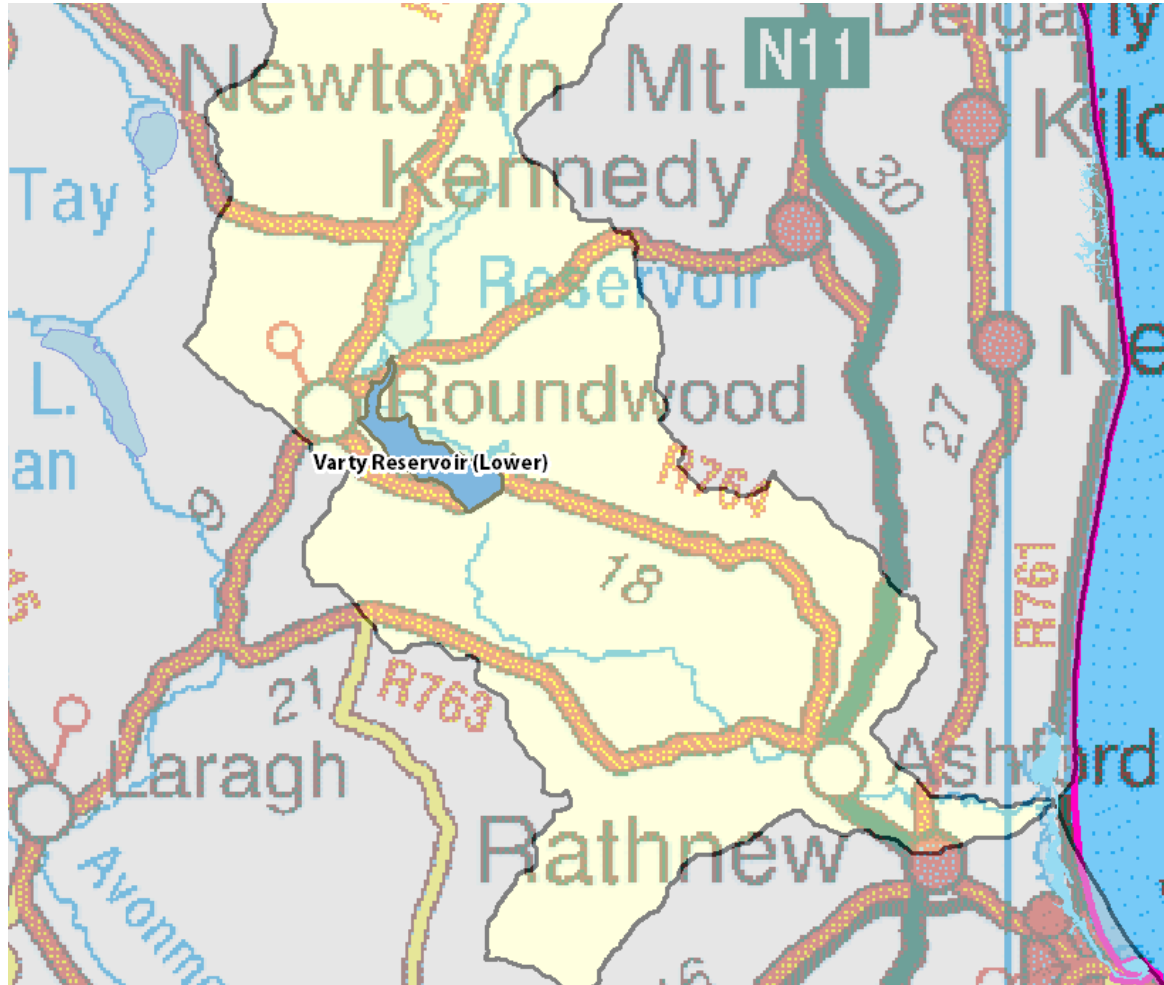
Wastewater Treatment Plants
None.




Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio-Chemical)	20%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •No Measure Required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Further investigation/monitoring required •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	10%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) EPA (Licensing) Regulations, 1994 & 2004 EPA Waste (Licensing) Regulations, 2004 Local Government (Water Pollution) Act 1 of 1977 and amendments Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) Urban Waste Water Treatment Regulations, 2001 - 2004 Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) Water Services Act 2007 	<ul style="list-style-type: none"> Courts - Enforcement DEHLG - Grant Funding (WSIP) DEHLG, EPA - Regulatory Agency EPA, LA - Inspections EPA, LA - Licensing Agency Plant owner - Funding Plant owner - Implementor 	<ul style="list-style-type: none"> Further investigation/monitoring required No Measure Required 	<ul style="list-style-type: none"> Contract approval - DEHLG WSIP Funding, Owner funding Funding for pilot implementation - DEHLG Inclusion on WSIP planning list - DEHLG Licensing as necessary - EPA Operational improvements - Owner, operator Owner implementation - Owner Planning controls - LAs, An Bord Plenala Preparation of Water Services Strategic Plans - Local Authority Regulatory approvals - DEHLG, EPA WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	10%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement EPA Guidance LA - Inspections LA Bye Laws, LA Planning - Licensing Agency Owner - Implementor 	<ul style="list-style-type: none"> Further investigation/monitoring required No Measure Required 	<ul style="list-style-type: none"> Enforcement of new regulations/guidelines - Las Funding of pilot measures - DEHLG Legislation/guidance - DEHLG/EPA Local Authority Resources - DEHLG Natural recovery - Nature Owner funding - Owner Programme implementation sequencing - LAs Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) Foreshore Act (1933) Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> An Bord Pleanala, LA, CFB - Inspections Courts - Enforcement DEHLG, DEMNR, OPW - Grant Funding EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency OPW, EPA, DCMNR - Regulatory Agency Owner - Funding Owner, OPW - Implementor 	<ul style="list-style-type: none"> No Measure Required 	<ul style="list-style-type: none"> Definition of GEP - EPA Definition of needs - CFB, NPWS, OPW Enforcement of new regulations/guidelines - Las Funding for pilot measures implementation - DEHLG Implementation sequencing - all owners Implementation sequencing - LAs LA resources - DEHLG Legislation/guidance - DEHLG Natural recovery - Nature Planning - NPWS, LA, An Bord Pleanala Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> National Water Pricing Policy Framework (1998) Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) Water Supplies Act 1942 	<ul style="list-style-type: none"> Abstractor - Implementor An Bord Pleanala, LA, DEMNR - Planning Courts - Enforcement DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) EPA, DEMNR - Regulatory Agency EPA, LA - Inspections EPA, LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> No Measure Needed 	<ul style="list-style-type: none"> Enforcement - EPA Evaluation methodology - DEHLG, EPA Funding - DEHLG Natural recovery time - Nature New Regulations - DEHLG Sequencing of implementation - All listed Agencies

Vartry Reservoir



Symbols	Meaning
	County boundaries
	Water Management Unit
	Lake of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Vartry Reservoir Lower

Water Bodies in WMU	Current Status	Achieve Good Status by
Vartry Reservoir Lower	Good	2009

Wastewater Treatment Plants

None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	20%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •Planning Development Acts 2000 - 2006 •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 		<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •Planning Development Acts 2000 - 2006 •Water Services Act 2007 •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 		<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •Planning Development Acts 2000 - 2006 •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 		<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •Planning Development Acts 2000 - 2006 •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 		<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	10%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •Planning Development Acts 2000 - 2006 •Water Services Act 2007 •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 		<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	10%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •Planning Development Acts 2000 - 2006 •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 		<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> •EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) •Foreshore Act (1933) •Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> •An Bord Pleanala, LA, CFB - Inspections •Courts - Enforcement •DEHLG, DEMNR, OPW - Grant Funding •EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency •OPW, EPA, DCMNR - Regulatory Agency •Owner - Funding •Owner, OPW - Implementor 	<ul style="list-style-type: none"> •Apply Heavily Modified Waterbody Measures (See External Document) 	<ul style="list-style-type: none"> •Definition of GEP - EPA •Definition of needs - CFB, NPWS, OPW •Enforcement of new regulations/guidelines - Las •Funding for pilot measures implementation - DEHLG •Implementation sequencing - all owners •Implementation sequencing - LAs •LA resources - DEHLG •Legislation/guidance - DEHLG •Natural recovery - Nature •Planning - NPWS, LA, An Bord Plenala •Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •National Water Pricing Policy Framework (1998) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •Further Research on Abstraction Pressure effects on lake ecology (national) •Modernise Abstraction Legislation, including a system for licensing surface water abstractions •Record daily abstraction rates •Record daily water level 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Vartry Reservoir Upper

Water Bodies in WMU	Current Status	Achieve Good Status by
Vartry Reservoir Upper	Good	2009

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	80%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •Planning Development Acts 2000 - 2006 •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 		<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •Planning Development Acts 2000 - 2006 •Water Services Act 2007 •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 		<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	10%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •Planning Development Acts 2000 - 2006 •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 		<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •Planning Development Acts 2000 - 2006 •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 		<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •Planning Development Acts 2000 - 2006 •Water Services Act 2007 •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 		<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	10%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •Planning Development Acts 2000 - 2006 •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 		<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> •EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) •Foreshore Act (1933) •Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> •An Bord Pleanala, LA, CFB - Inspections •Courts - Enforcement •DEHLG, DEMNR, OPW - Grant Funding •EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency •OPW, EPA, DCMNR - Regulatory Agency •Owner - Funding •Owner, OPW - Implementor 	<ul style="list-style-type: none"> •Apply Heavily Modified Waterbody Measures (See External Document) 	<ul style="list-style-type: none"> •Definition of GEP - EPA •Definition of needs - CFB, NPWS, OPW •Enforcement of new regulations/guidelines - Las •Funding for pilot measures implementation - DEHLG •Implementation sequencing - all owners •Implementation sequencing - LAs •LA resources - DEHLG •Legislation/guidance - DEHLG •Natural recovery - Nature •Planning - NPWS, LA, An Bord Plenala •Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •National Water Pricing Policy Framework (1998) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •Further Research on Abstraction Pressure effects on lake ecology (national) •Modernise Abstraction Legislation, including a system for licensing surface water abstractions •Record daily abstraction rates •Record daily water level 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies



Transitional Water Bodies



eastern
river basin district

Avoca Estuary



Symbols	Meaning
	County boundaries
	Water Management Unit
	Transitional water body of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Avoca Estuary

Water Bodies in WMU	Current Status	Achieve Good Status by
Avoca Estuary	Moderate	2027

Wastewater Treatment Plants

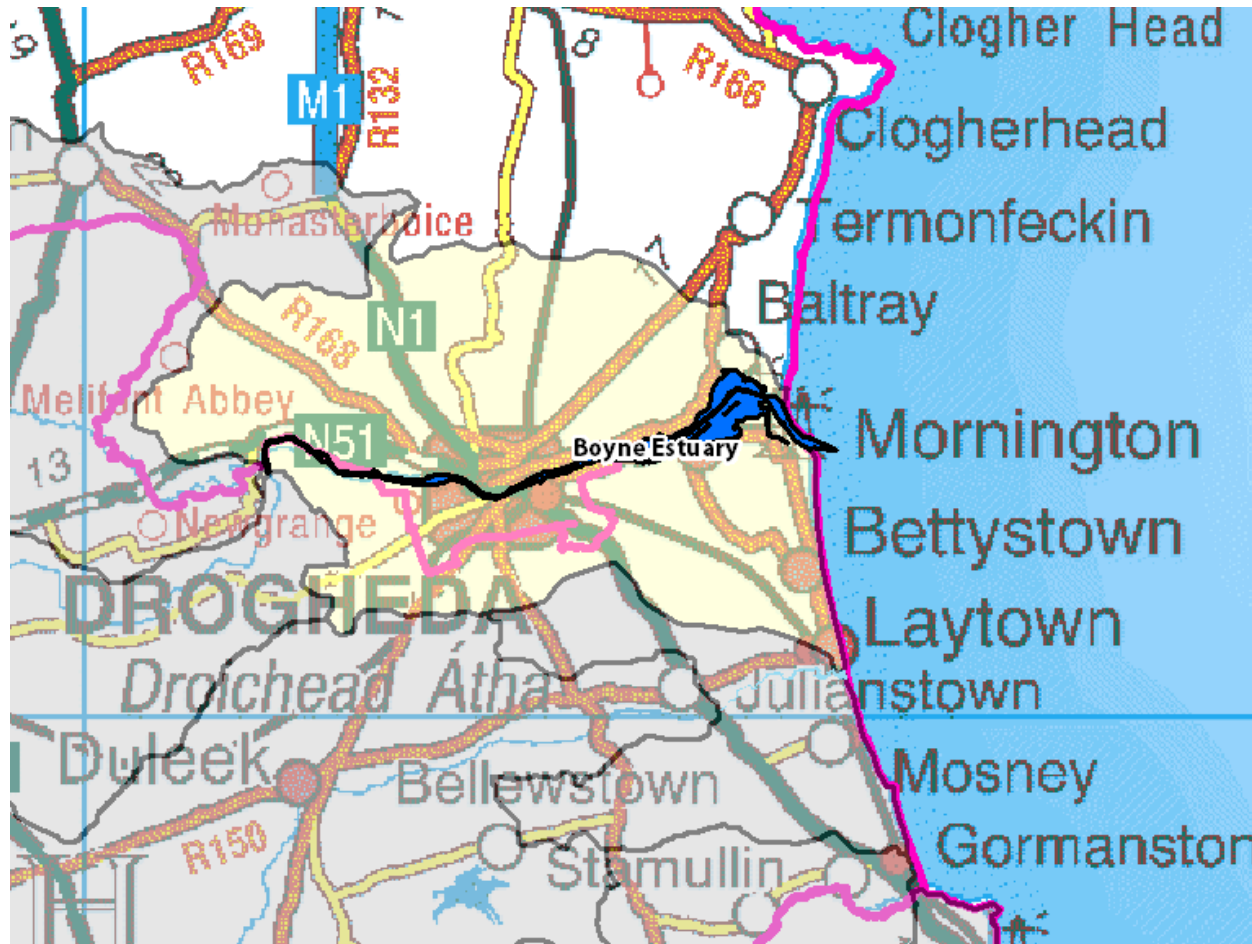
Arklow WwTW




Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio-Chemical)	0%	<ul style="list-style-type: none"> •Local Government (Water Pollution) Act 1 of 1977 and amendments •Planning and Development Regulations 2001 - 2007 •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	30%	<ul style="list-style-type: none"> •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Planning and Development Regulations 2001 - 2007 •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Diffuse Runoff (Urban) - Gullies Management •Diffuse Runoff (Urban) - Implement SUDS (Including Green Roofs Guidance) •Diffuse Runoff (Urban) - Storm sewers separation and qualitative improvement •Diffuse Runoff (Urban) - Street Cleaning Programme •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •Planning and Development Regulations 2001 - 2007 •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	20%	<ul style="list-style-type: none"> •Planning and Development Regulations 2001 - 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	50%	<ul style="list-style-type: none"> •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Planning and Development Regulations 2001 - 2007 •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Diffuse Runoff (Urban) - Gullies Management •Diffuse Runoff (Urban) - Implement SUDS (Including Green Roofs Guidance) •Diffuse Runoff (Urban) - Storm sewers separation and qualitative improvement •Diffuse Runoff (Urban) - Street Cleaning Programme •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Planning and Development Regulations 2001 - 2007 •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Implement upstream Programmes of Measures •Treatment Plant Tie-ins 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> •EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) •Foreshore Act (1933) •Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> •An Bord Pleanala, LA, CFB - Inspections •Courts - Enforcement •DEHLG, DEMNR, OPW - Grant Funding •EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency •OPW, EPA, DCMNR - Regulatory Agency •Owner - Funding •Owner, OPW - Implementor 	<ul style="list-style-type: none"> •Assess channelisation & flood embankments using MImAS •ICZM - Using the RBMP process, continue to include departmental co-operation for TraC water body management. •Introduce soft edges to inferior habitats •Preserve and/or restore banks •Review dredging practice •Survey Banks/Coast •Use MImAS as a risk assessment tool to assess water body status deterioration related to developments affecting transitional and coastal water bodies 	<ul style="list-style-type: none"> •Definition of GEP - EPA •Definition of needs - CFB, NPWS, OPW •Enforcement of new regulations/guidelines - Las •Funding for pilot measures implementation - DEHLG •Implementation sequencing - all owners •Implementation sequencing - LAs •LA resources - DEHLG •Legislation/guidance - DEHLG •Natural recovery - Nature •Planning - NPWS, LA, An Bord Plenala •Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Boyne Estuary



Symbols	Meaning
	County boundaries
	Water Management Unit
	Transitional water body of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Boyne Estuary

Water Bodies in WMU	Current Status	Achieve Good Status by
Boyne Estuary	Moderate	2027

Wastewater Treatment Plants

Drogheda WwTW




Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	10%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Water Quality Dangerous Substances Regulations, 2001 •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Diffuse Runoff (Urban) - Gullies Management •Diffuse Runoff (Urban) - Implement SUDS (Including Green Roofs Guidance) •Diffuse Runoff (Urban) - Street Cleaning Programme •Harbour dredgings to be suitably disposed of •Implement upstream Programmes of Measures •Monitor shipping activities 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	70%	<ul style="list-style-type: none"> •Urban Waste Water Treatment Regulations, 2001 - 2004 •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Assess CSO and Water Quality Impact from Urban Pressures •Diffuse Runoff (Urban) - Gullies Management •Diffuse Runoff (Urban) - Implement SUDS (Including Green Roofs Guidance) •Diffuse Runoff (Urban) - Street Cleaning Programme •Harbour dredgings to be suitably disposed of •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> •EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) •Foreshore Act (1933) •Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> •An Bord Pleanala, LA, CFB - Inspections •Courts - Enforcement •DEHLG, DEMNR, OPW - Grant Funding •EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency •OPW, EPA, DCMNR - Regulatory Agency •Owner - Funding •Owner, OPW - Implementor 	<ul style="list-style-type: none"> •Apply Heavily Modified Waterbody Measures (See External Document) 	<ul style="list-style-type: none"> •Definition of GEP - EPA •Definition of needs - CFB, NPWS, OPW •Enforcement of new regulations/guidelines - Las •Funding for pilot measures implementation - DEHLG •Implementation sequencing - all owners •Implementation sequencing - LAs •LA resources - DEHLG •Legislation/guidance - DEHLG •Natural recovery - Nature •Planning - NPWS, LA, An Bord Plenala •Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 		<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Broad Lough



Symbols	Meaning
	County boundaries
	Water Management Unit
	Transitional water body of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Broad Lough

Water Bodies in WMU	Current Status	Achieve Good Status by
Broad Lough	Moderate	2021

Wastewater Treatment Plants

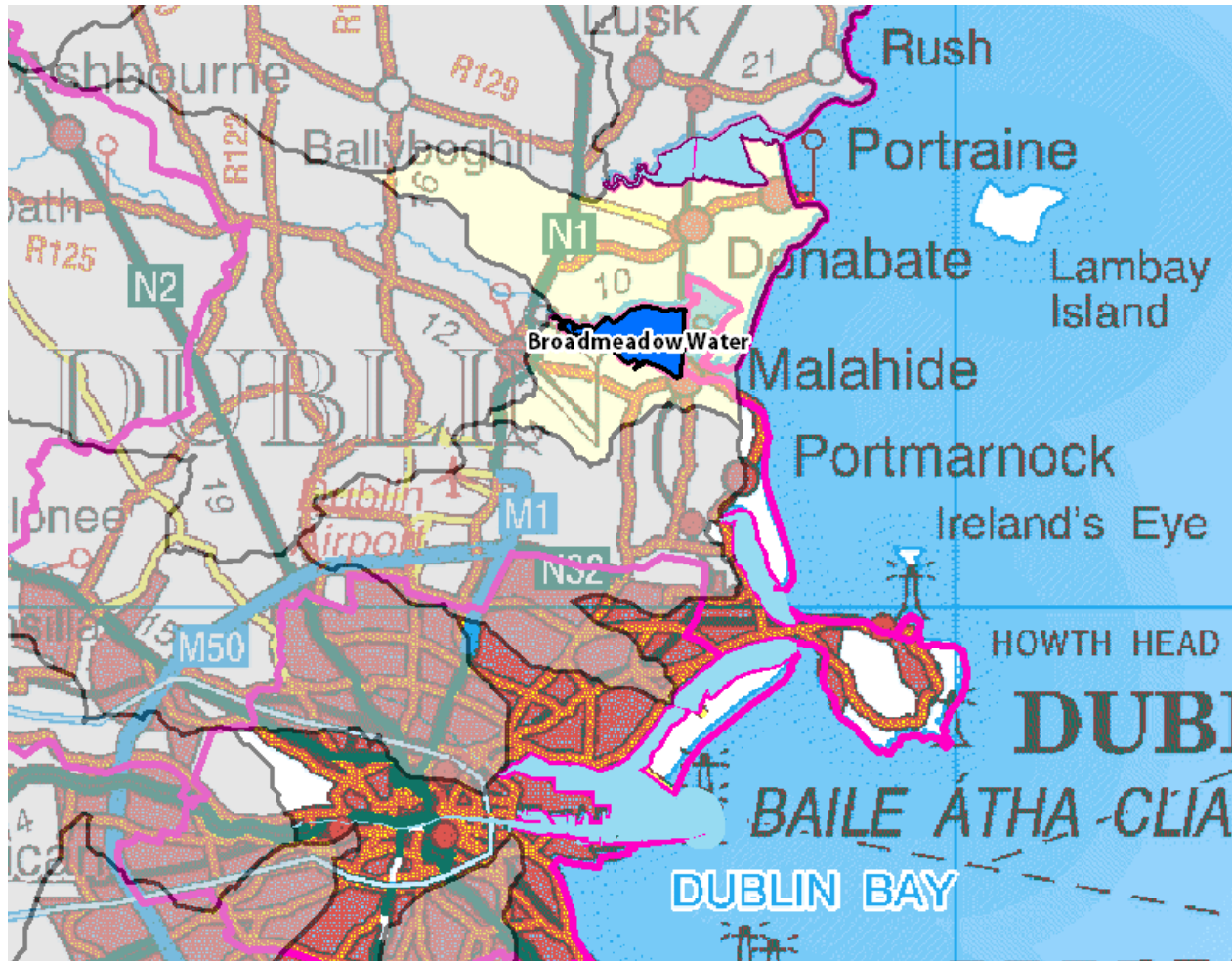
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	10%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 		<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Diffuse Runoff (Urban) - Gullies Management •Diffuse Runoff (Urban) - Implement SUDS (Including Green Roofs Guidance) •Diffuse Runoff (Urban) - Storm sewers separation and qualitative improvement •Diffuse Runoff (Urban) - Street Cleaning Programme 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 		<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 		<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	70%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) EPA (Licensing) Regulations, 1994 & 2004 EPA Waste (Licensing) Regulations, 2004 Local Government (Water Pollution) Act 1 of 1977 and amendments Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) Urban Waste Water Treatment Regulations, 2001 - 2004 Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) Water Services Act 2007 	<ul style="list-style-type: none"> Courts - Enforcement DEHLG - Grant Funding (WSIP) DEHLG, EPA - Regulatory Agency EPA, LA - Inspections EPA, LA - Licensing Agency Plant owner - Funding Plant owner - Implementor 	<ul style="list-style-type: none"> Collection system - Network management & operations programme Collection System - Upgrades and rehabilitation CSO - Implement FOGG Regulations Diffuse Runoff (Urban) - Gullies Management Diffuse Runoff (Urban) - Implement SUDS (Including Green Roofs Guidance) Diffuse Runoff (Urban) - Storm sewers separation and qualitative improvement Diffuse Runoff (Urban) - Street Cleaning Programme 	<ul style="list-style-type: none"> Contract approval - DEHLG WSIP Funding, Owner funding Funding for pilot implementation - DEHLG Inclusion on WSIP planning list - DEHLG Licensing as necessary - EPA Operational improvements - Owner, operator Owner implementation - Owner Planning controls - LAs, An Bord Plenala Preparation of Water Services Strategic Plans - Local Authority Regulatory approvals - DEHLG, EPA WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement EPA Guidance LA - Inspections LA Bye Laws, LA Planning - Licensing Agency Owner - Implementor 		<ul style="list-style-type: none"> Enforcement of new regulations/guidelines - Las Funding of pilot measures - DEHLG Legislation/guidance - DEHLG/EPA Local Authority Resources - DEHLG Natural recovery - Nature Owner funding - Owner Programme implementation sequencing - LAs Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) Foreshore Act (1933) Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> An Bord Pleanala, LA, CFB - Inspections Courts - Enforcement DEHLG, DEMNR, OPW - Grant Funding EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency OPW, EPA, DCMNR - Regulatory Agency Owner - Funding Owner, OPW - Implementor 	<ul style="list-style-type: none"> No Measure Required 	<ul style="list-style-type: none"> Definition of GEP - EPA Definition of needs - CFB, NPWS, OPW Enforcement of new regulations/guidelines - Las Funding for pilot measures implementation - DEHLG Implementation sequencing - all owners Implementation sequencing - LAs LA resources - DEHLG Legislation/guidance - DEHLG Natural recovery - Nature Planning - NPWS, LA, An Bord Plenala Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> National Water Pricing Policy Framework (1998) Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) Water Supplies Act 1942 	<ul style="list-style-type: none"> Abstractor - Implementor An Bord Plenala, LA, DEMNR - Planning Courts - Enforcement DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) EPA, DEMNR - Regulatory Agency EPA, LA - Inspections EPA, LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> No Measure Needed 	<ul style="list-style-type: none"> Enforcement - EPA Evaluation methodology - DEHLG, EPA Funding - DEHLG Natural recovery time - Nature New Regulations - DEHLG Sequencing of implementation - All listed Agencies

Broadmeadow Water



Symbols	Meaning
	County boundaries
	Water Management Unit
	Transitional water body of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Broadmeadow Water

Water Bodies in WMU	Current Status	Achieve Good Status by
Broadmeadow Water	Moderate	2027

Wastewater Treatment Plants

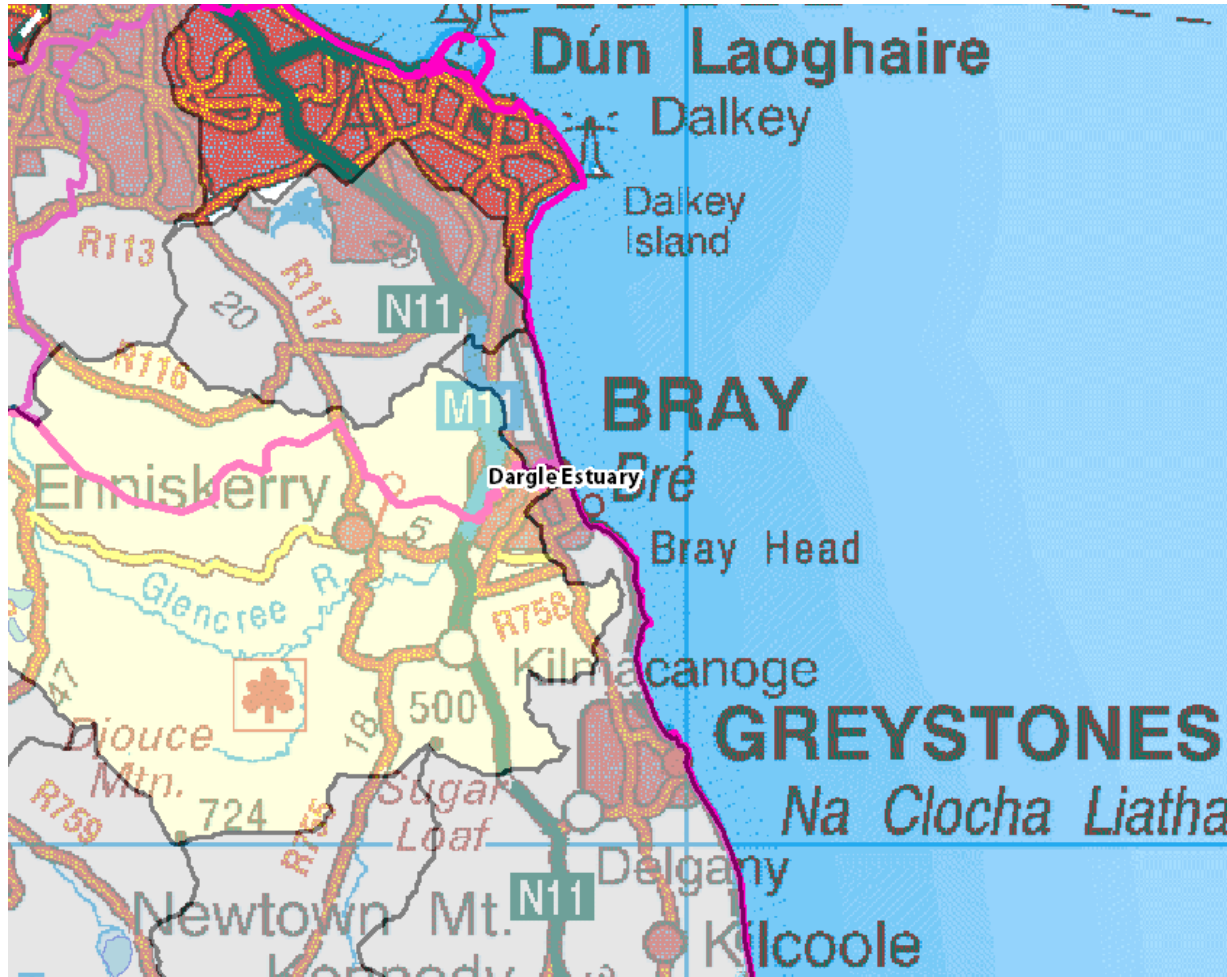
Swords WwTW




Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	10%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning Development Acts 2000 - 2006 •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning Development Acts 2000 - 2006 •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Planning and Development Regulations 2001 - 2007 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Diffuse Runoff (Urban) - Gullies Management •Diffuse Runoff (Urban) - Implement SUDS (Including Green Roofs Guidance) •Diffuse Runoff (Urban) - Storm sewers separation and qualitative improvement •Diffuse Runoff (Urban) - Street Cleaning Programme •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •Planning Development Acts 2000 - 2006 •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •Planning Development Acts 2000 - 2006 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	70%	<ul style="list-style-type: none"> Local Government (Water Pollution) Act 1 of 1977 and amendments Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) Planning Development Acts 2000 - 2006 Urban Waste Water Treatment Regulations, 2001 - 2004 Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) Water Services Act 2007 Bathing Water Quality Regulations (S.I. 79 of 2008) Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) EPA (Licensing) Regulations, 1994 & 2004 EPA Waste (Licensing) Regulations, 2004 Planning and Development Regulations 2001 - 2007 Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement DEHLG - Grant Funding (WSIP) DEHLG, EPA - Regulatory Agency EPA, LA - Inspections EPA, LA - Licensing Agency Plant owner - Funding Plant owner - Implementor 	<ul style="list-style-type: none"> Collection system - Network management & operations programme Collection System - Upgrades and rehabilitation CSO - Implement FOGG Regulations CSOs to comply with GDSDS recommendations Diffuse Runoff (Urban) - Gullies Management Diffuse Runoff (Urban) - Implement SUDS (Including Green Roofs Guidance) Diffuse Runoff (Urban) - Storm sewers separation and qualitative improvement Diffuse Runoff (Urban) - Street Cleaning Programme Implement upstream Programmes of Measures Tertiary Treatment 	<ul style="list-style-type: none"> Contract approval - DEHLG WSIP Funding, Owner funding Funding for pilot implementation - DEHLG Inclusion on WSIP planning list - DEHLG Licensing as necessary - EPA Operational improvements - Owner, operator Owner implementation - Owner Planning controls - LAs, An Bord Plenala Preparation of Water Services Strategic Plans - Local Authority Regulatory approvals - DEHLG, EPA WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> Planning Development Acts 2000 - 2006 Bathing Water Quality Regulations (S.I. 79 of 2008) EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) Planning and Development Regulations 2001 - 2007 Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement EPA Guidance LA - Inspections LA Bye Laws, LA Planning - Licensing Agency Owner - Implementor 	<ul style="list-style-type: none"> Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> Enforcement of new regulations/guidelines - Las Funding of pilot measures - DEHLG Legislation/guidance - DEHLG/EPA Local Authority Resources - DEHLG Natural recovery - Nature Owner funding - Owner Programme implementation sequencing - LAs Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) Foreshore Act (1933) Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> An Bord Pleanala, LA, CFB - Inspections Courts - Enforcement DEHLG, DEMNR, OPW - Grant Funding EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency OPW, EPA, DCMNR - Regulatory Agency Owner - Funding Owner, OPW - Implementor 	<ul style="list-style-type: none"> Apply Heavily Modified Waterbody Measures (See External Document) 	<ul style="list-style-type: none"> Definition of GEP - EPA Definition of needs - CFB, NPWS, OPW Enforcement of new regulations/guidelines - Las Funding for pilot measures implementation - DEHLG Implementation sequencing - all owners Implementation sequencing - LAs LA resources - DEHLG Legislation/guidance - DEHLG Natural recovery - Nature Planning - NPWS, LA, An Bord Plenala Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> National Water Pricing Policy Framework (1998) Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) Water Supplies Act 1942 	<ul style="list-style-type: none"> Abstractor - Implementor An Bord Pleanala, LA, DEMNR - Planning Courts - Enforcement DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) EPA, DEMNR - Regulatory Agency EPA, LA - Inspections EPA, LA, DEMNR - Licensing Agency 		<ul style="list-style-type: none"> Enforcement - EPA Evaluation methodology - DEHLG, EPA Funding - DEHLG Natural recovery time - Nature New Regulations - DEHLG Sequencing of implementation - All listed Agencies

Dargle Estuary



Symbols	Meaning
	County boundaries
	Water Management Unit
	Transitional water body of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Dargle Estuary

Water Bodies in WMU	Current Status	Achieve Good Status by
Dargle Estuary	Unknown	2021

Wastewater Treatment Plants
None.




Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio-Chemical)	20%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Implement upstream Programmes of Measures •No Measure Required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Implement upstream Programmes of Measures •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Implement upstream Programmes of Measures •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Implement upstream Programmes of Measures •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	20%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) EPA (Licensing) Regulations, 1994 & 2004 EPA Waste (Licensing) Regulations, 2004 Local Government (Water Pollution) Act 1 of 1977 and amendments Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) Urban Waste Water Treatment Regulations, 2001 - 2004 Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) Water Services Act 2007 	<ul style="list-style-type: none"> Courts - Enforcement DEHLG - Grant Funding (WSIP) DEHLG, EPA - Regulatory Agency EPA, LA - Inspections EPA, LA - Licensing Agency Plant owner - Funding Plant owner - Implementor 	<ul style="list-style-type: none"> Further investigation/monitoring required Implement upstream Programmes of Measures No Measure Required 	<ul style="list-style-type: none"> Contract approval - DEHLG WSIP Funding, Owner funding Funding for pilot implementation - DEHLG Inclusion on WSIP planning list - DEHLG Licensing as necessary - EPA Operational improvements - Owner, operator Owner implementation - Owner Planning controls - LAs, An Bord Plenala Preparation of Water Services Strategic Plans - Local Authority Regulatory approvals - DEHLG, EPA WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	20%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement EPA Guidance LA - Inspections LA Bye Laws, LA Planning - Licensing Agency Owner - Implementor 	<ul style="list-style-type: none"> Further investigation/monitoring required Implement upstream Programmes of Measures No Measure Required 	<ul style="list-style-type: none"> Enforcement of new regulations/guidelines - Las Funding of pilot measures - DEHLG Legislation/guidance - DEHLG/EPA Local Authority Resources - DEHLG Natural recovery - Nature Owner funding - Owner Programme implementation sequencing - LAs Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) Foreshore Act (1933) Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> An Bord Pleanala, LA, CFB - Inspections Courts - Enforcement DEHLG, DEMNR, OPW - Grant Funding EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency OPW, EPA, DCMNR - Regulatory Agency Owner - Funding Owner, OPW - Implementor 	<ul style="list-style-type: none"> Apply Heavily Modified Waterbody Measures (See External Document) 	<ul style="list-style-type: none"> Definition of GEP - EPA Definition of needs - CFB, NPWS, OPW Enforcement of new regulations/guidelines - Las Funding for pilot measures implementation - DEHLG Implementation sequencing - all owners Implementation sequencing - LAs LA resources - DEHLG Legislation/guidance - DEHLG Natural recovery - Nature Planning - NPWS, LA, An Bord Pleanala Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> National Water Pricing Policy Framework (1998) Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) Water Supplies Act 1942 	<ul style="list-style-type: none"> Abstractor - Implementor An Bord Pleanala, LA, DEMNR - Planning Courts - Enforcement DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) EPA, DEMNR - Regulatory Agency EPA, LA - Inspections EPA, LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> No Measure Needed 	<ul style="list-style-type: none"> Enforcement - EPA Evaluation methodology - DEHLG, EPA Funding - DEHLG Natural recovery time - Nature New Regulations - DEHLG Sequencing of implementation - All listed Agencies

Kilcoole Marsh Estuary



Symbols	Meaning
	County boundaries
	Water Management Unit
	Transitional water body of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Kilcoole Marsh

Water Bodies in WMU	Current Status	Achieve Good Status by
Kilcoole Marsh	Unknown	2021

Wastewater Treatment Plants

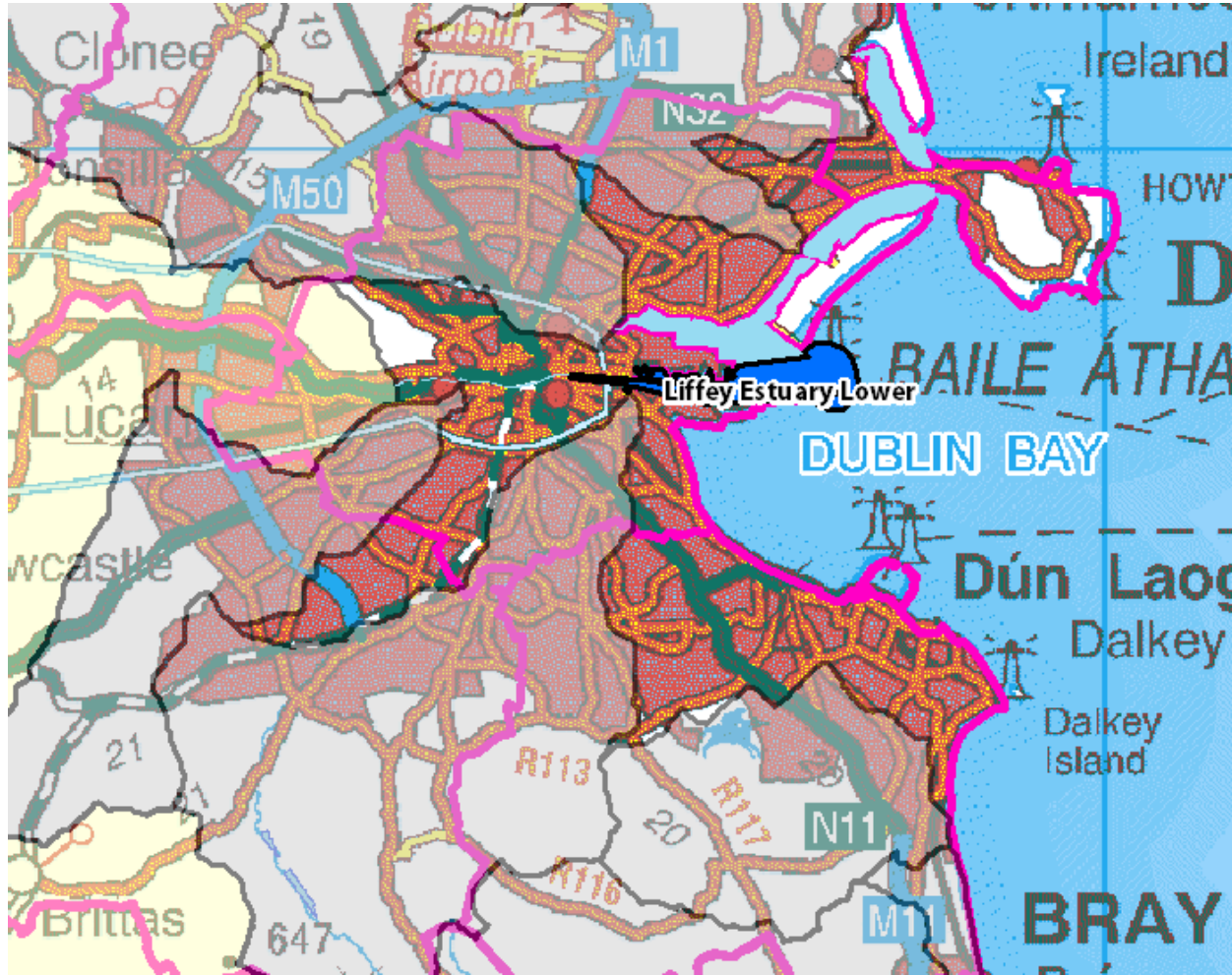
Kilcoole WwTW




Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	20%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •No Measure Required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Further investigation/monitoring required •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	20%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) EPA (Licensing) Regulations, 1994 & 2004 EPA Waste (Licensing) Regulations, 2004 Local Government (Water Pollution) Act 1 of 1977 and amendments Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) Urban Waste Water Treatment Regulations, 2001 - 2004 Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) Water Services Act 2007 	<ul style="list-style-type: none"> Courts - Enforcement DEHLG - Grant Funding (WSIP) DEHLG, EPA - Regulatory Agency EPA, LA - Inspections EPA, LA - Licensing Agency Plant owner - Funding Plant owner - Implementor 	<ul style="list-style-type: none"> Further investigation/monitoring required No Measure Required 	<ul style="list-style-type: none"> Contract approval - DEHLG WSIP Funding, Owner funding Funding for pilot implementation - DEHLG Inclusion on WSIP planning list - DEHLG Licensing as necessary - EPA Operational improvements - Owner, operator Owner implementation - Owner Planning controls - LAs, An Bord Plenala Preparation of Water Services Strategic Plans - Local Authority Regulatory approvals - DEHLG, EPA WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	20%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement EPA Guidance LA - Inspections LA Bye Laws, LA Planning - Licensing Agency Owner - Implementor 	<ul style="list-style-type: none"> Further investigation/monitoring required No Measure Required 	<ul style="list-style-type: none"> Enforcement of new regulations/guidelines - Las Funding of pilot measures - DEHLG Legislation/guidance - DEHLG/EPA Local Authority Resources - DEHLG Natural recovery - Nature Owner funding - Owner Programme implementation sequencing - LAs Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) Foreshore Act (1933) Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> An Bord Pleanala, LA, CFB - Inspections Courts - Enforcement DEHLG, DEMNR, OPW - Grant Funding EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency OPW, EPA, DCMNR - Regulatory Agency Owner - Funding Owner, OPW - Implementor 	<ul style="list-style-type: none"> No Measure Required 	<ul style="list-style-type: none"> Definition of GEP - EPA Definition of needs - CFB, NPWS, OPW Enforcement of new regulations/guidelines - Las Funding for pilot measures implementation - DEHLG Implementation sequencing - all owners Implementation sequencing - LAs LA resources - DEHLG Legislation/guidance - DEHLG Natural recovery - Nature Planning - NPWS, LA, An Bord Pleanala Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> National Water Pricing Policy Framework (1998) Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) Water Supplies Act 1942 	<ul style="list-style-type: none"> Abstractor - Implementor An Bord Pleanala, LA, DEMNR - Planning Courts - Enforcement DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) EPA, DEMNR - Regulatory Agency EPA, LA - Inspections EPA, LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> No Measure Needed 	<ul style="list-style-type: none"> Enforcement - EPA Evaluation methodology - DEHLG, EPA Funding - DEHLG Natural recovery time - Nature New Regulations - DEHLG Sequencing of implementation - All listed Agencies

Liffey Estuary Lower



Symbols	Meaning
	County boundaries
	Water Management Unit
	Transitional water body of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Liffey Estuary Lower

Water Bodies in WMU	Current Status	Achieve Good Status by
Liffey Estuary Lower	Moderate	2027

Wastewater Treatment Plants

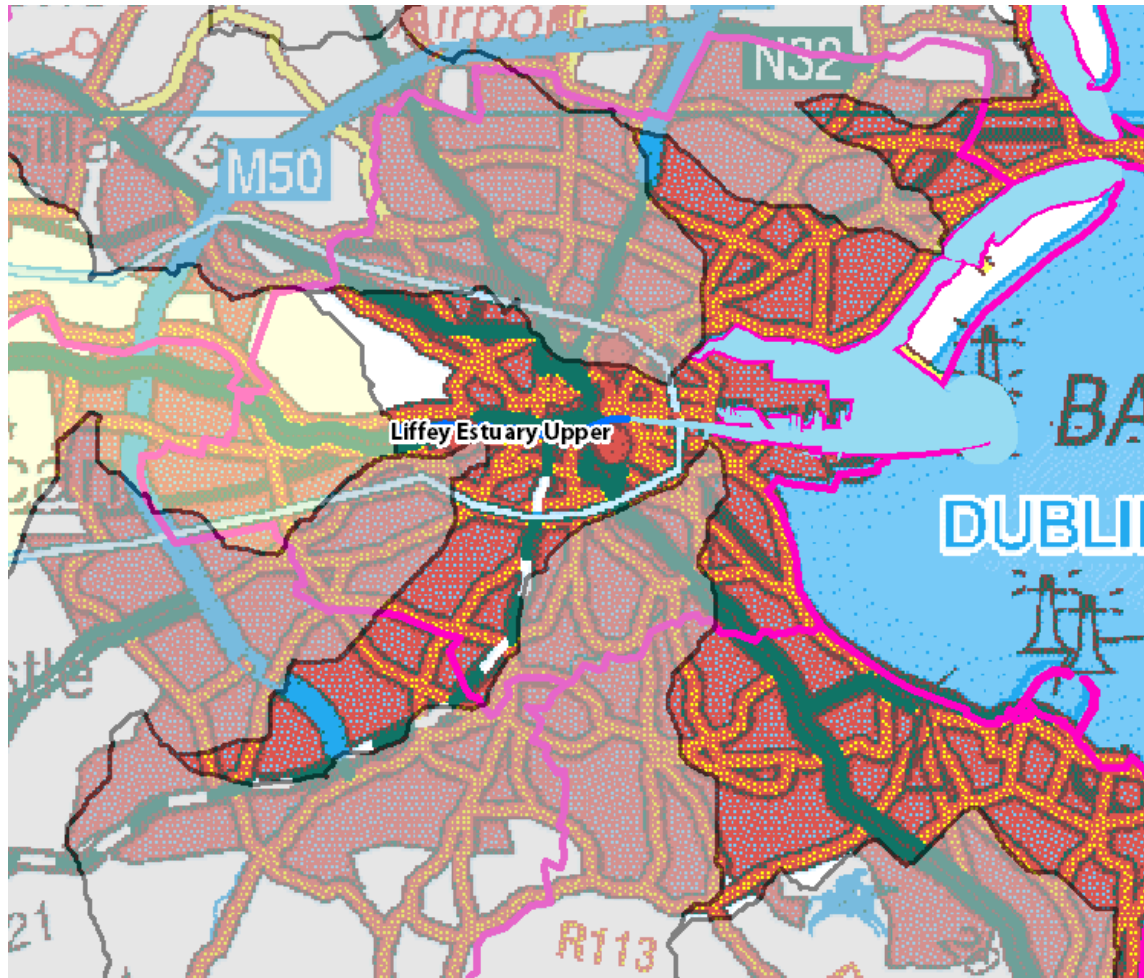
Ringsend WwTW




Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 		<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	30%	<ul style="list-style-type: none"> •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Diffuse Runoff (Urban) - Gullies Management •Diffuse Runoff (Urban) - Implement SUDS (Including Green Roofs Guidance) •Diffuse Runoff (Urban) - Street Cleaning Programme 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 		<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 		<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Inspection Resources - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	70%	<ul style="list-style-type: none"> Local Government (Water Pollution) Act 1 of 1977 and amendments Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) Urban Waste Water Treatment Regulations, 2001 - 2004 Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) Water Services Act 2007 Bathing Water Quality Regulations (S.I. 79 of 2008) Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) EPA (Licensing) Regulations, 1994 & 2004 EPA Waste (Licensing) Regulations, 2004 Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement DEHLG - Grant Funding (WSIP) DEHLG, EPA - Regulatory Agency EPA, LA - Inspections EPA, LA - Licensing Agency Plant owner - Funding Plant owner - Implementor 	<ul style="list-style-type: none"> Assess CSO and Water Quality Impact from Urban Pressures Collection System - Upgrades and rehabilitation Diffuse Runoff (Urban) - Gullies Management Diffuse Runoff (Urban) - Implement SUDS (Including Green Roofs Guidance) Diffuse Runoff (Urban) - Street Cleaning Programme LA to adopt a common approach to issuance of Section 4 and 16 licences LA to adopt common approach for analysis and reporting of water/effluent samples at WWTP PMS should be implemented and audited at all WWTPs Tertiary Treatment 	<ul style="list-style-type: none"> Contract approval - DEHLG WSIP Funding, Owner funding Funding for pilot implementation - DEHLG Inclusion on WSIP planning list - DEHLG Licensing as necessary - EPA Operational improvements - Owner, operator Owner implementation - Owner Planning controls - LAs, An Bord Plenala Preparation of Water Services Strategic Plans - Local Authority Regulatory approvals - DEHLG, EPA WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement EPA Guidance LA - Inspections LA Bye Laws, LA Planning - Licensing Agency Owner - Implementor 		<ul style="list-style-type: none"> Enforcement of new regulations/guidelines - Las Funding of pilot measures - DEHLG Legislation/guidance - DEHLG/EPA Local Authority Resources - DEHLG Natural recovery - Nature Owner funding - Owner Programme implementation sequencing - LAs Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) Foreshore Act (1933) Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> An Bord Pleanala, LA, CFB - Inspections Courts - Enforcement DEHLG, DEMNR, OPW - Grant Funding EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency OPW, EPA, DCMNR - Regulatory Agency Owner - Funding Owner, OPW - Implementor 	<ul style="list-style-type: none"> Apply Heavily Modified Waterbody Measures (See External Document) 	<ul style="list-style-type: none"> Definition of GEP - EPA Definition of needs - CFB, NPWS, OPW Enforcement of new regulations/guidelines - Las Funding for pilot measures implementation - DEHLG Implementation sequencing - all owners Implementation sequencing - LAs LA resources - DEHLG Legislation/guidance - DEHLG Natural recovery - Nature Planning - NPWS, LA, An Bord Plenala Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> National Water Pricing Policy Framework (1998) Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) Water Supplies Act 1942 	<ul style="list-style-type: none"> Abstractor - Implementor An Bord Pleanala, LA, DEMNR - Planning Courts - Enforcement DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) EPA, DEMNR - Regulatory Agency EPA, LA - Inspections EPA, LA, DEMNR - Licensing Agency 		<ul style="list-style-type: none"> Enforcement - EPA Evaluation methodology - DEHLG, EPA Funding - DEHLG Natural recovery time - Nature New Regulations - DEHLG Sequencing of implementation - All listed Agencies

Liffey Estuary Upper



Symbols	Meaning
	County boundaries
	Water Management Unit
	Transitional water body of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Liffey Estuary Upper

Water Bodies in WMU	Current Status	Achieve Good Status by
Liffey Estuary Upper	Moderate	2027

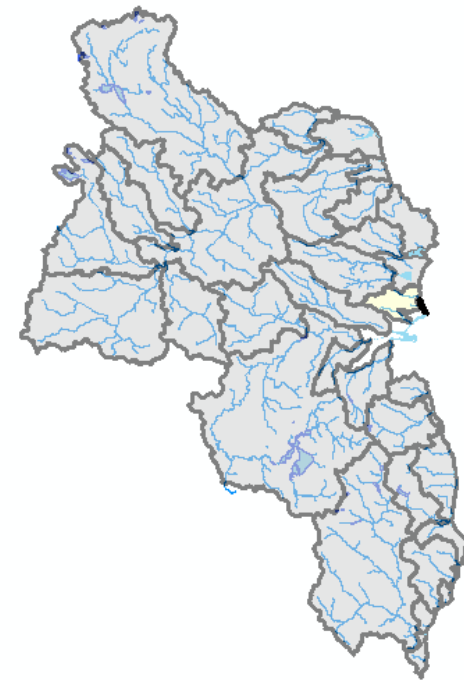
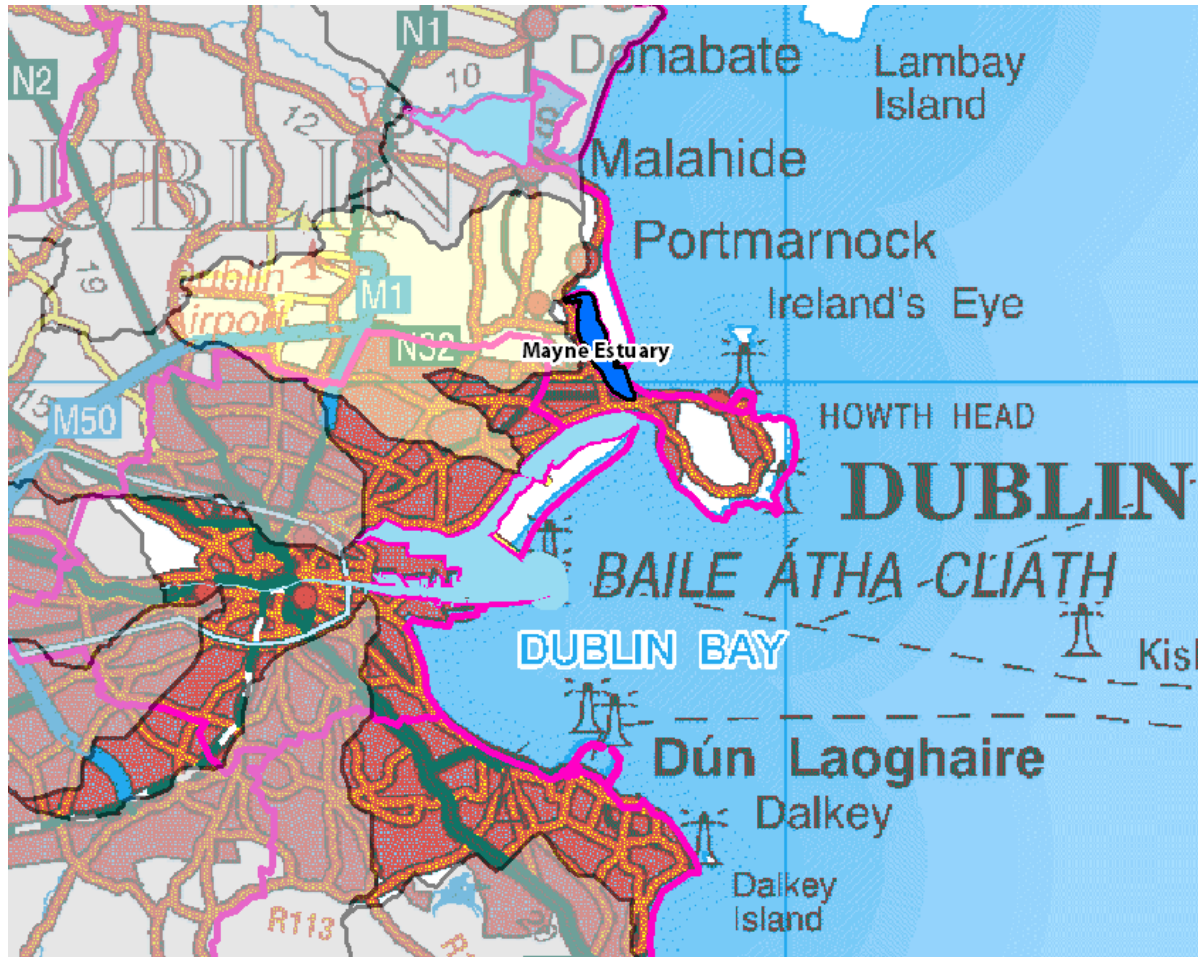
Wastewater Treatment Plants
None.




Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio-Chemical)	0%	<ul style="list-style-type: none"> •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	30%	<ul style="list-style-type: none"> •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EPA (Licensing) Regulations, 1994 & 2004 •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Water Quality Dangerous Substances Regulations, 2001 •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Diffuse Runoff (Urban) - Gullies Management •Diffuse Runoff (Urban) - Implement SUDS (Including Green Roofs Guidance) •Diffuse Runoff (Urban) - Street Cleaning Programme •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	70%	<ul style="list-style-type: none"> •EPA (Licensing) Regulations, 1994 & 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Assess CSO and Water Quality Impact from Urban Pressures •Collection System - Upgrades and rehabilitation •Diffuse Runoff (Urban) - Gullies Management •Diffuse Runoff (Urban) - Implement SUDS (Including Green Roofs Guidance) •Diffuse Runoff (Urban) - Street Cleaning Programme •Implement upstream Programmes of Measures •LA to adopt a common approach to issuance of Section 4 and 16 licences 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> •EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) •Foreshore Act (1933) •Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> •An Bord Pleanala, LA, CFB - Inspections •Courts - Enforcement •DEHLG, DEMNR, OPW - Grant Funding •EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency •OPW, EPA, DCMNR - Regulatory Agency •Owner - Funding •Owner, OPW - Implementor 	<ul style="list-style-type: none"> •Apply Heavily Modified Waterbody Measures (See External Document) 	<ul style="list-style-type: none"> •Definition of GEP - EPA •Definition of needs - CFB, NPWS, OPW •Enforcement of new regulations/guidelines - Las •Funding for pilot measures implementation - DEHLG •Implementation sequencing - all owners •Implementation sequencing - LAs •LA resources - DEHLG •Legislation/guidance - DEHLG •Natural recovery - Nature •Planning - NPWS, LA, An Bord Plenala •Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Pleanala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 		<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Mayne Estuary



Symbols	Meaning
	County boundaries
	Water Management Unit
	Transitional water body of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Mayne Estuary

Water Bodies in WMU	Current Status	Achieve Good Status by
Mayne Estuary	Unknown	2027

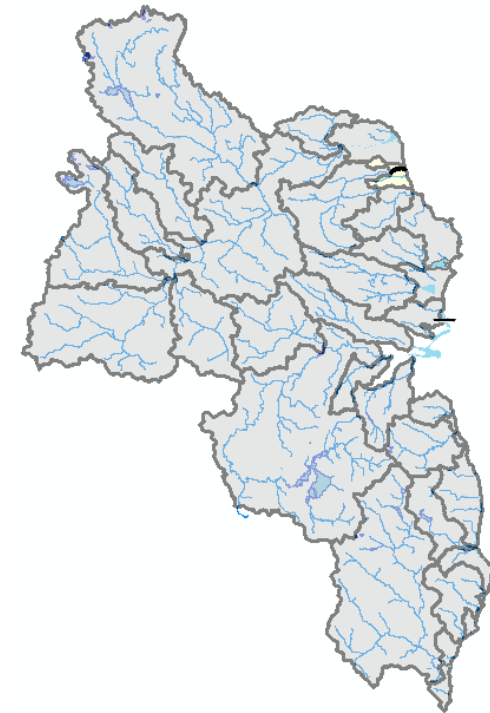
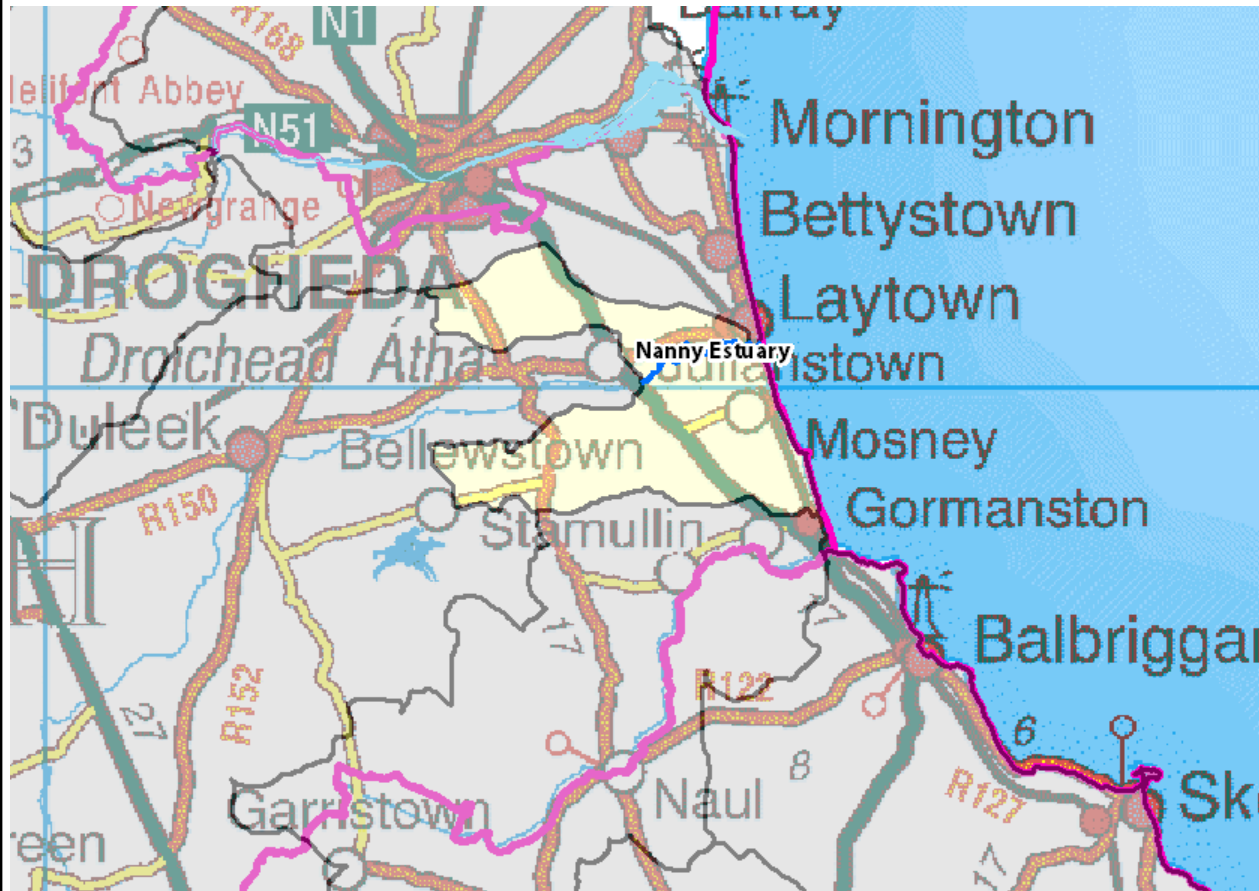
Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	10%	<ul style="list-style-type: none"> •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	10%	<ul style="list-style-type: none"> •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Diffuse Runoff (Urban) - Gullies Management •Diffuse Runoff (Urban) - Implement SUDS (Including Green Roofs Guidance) •Diffuse Runoff (Urban) - Storm sewers separation and qualitative improvement •Diffuse Runoff (Urban) - Street Cleaning Programme •Further investigation/monitoring required •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •Planning and Development Regulations 2001 - 2007 •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •Planning and Development Regulations 2001 - 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	80%	<ul style="list-style-type: none"> •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Collection system - Network management & operations programme •Collection System - Upgrades and rehabilitation •CSO - Implement FOGG Regulations •Diffuse Runoff (Urban) - Gullies Management •Diffuse Runoff (Urban) - Implement SUDS (Including Green Roofs Guidance) •Diffuse Runoff (Urban) - Storm sewers separation and qualitative improvement •Diffuse Runoff (Urban) - Street Cleaning Programme •Further investigation/monitoring required •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Planning and Development Regulations 2001 - 2007 •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> •EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) •Foreshore Act (1933) •Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> •An Bord Pleanala, LA, CFB - Inspections •Courts - Enforcement •DEHLG, DEMNR, OPW - Grant Funding •EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency •OPW, EPA, DCMNR - Regulatory Agency •Owner - Funding •Owner, OPW - Implementor 	<ul style="list-style-type: none"> •Assess channelisation & flood embankments using MImAS •Consider morphology within the current development (SEA, EIA, etc) appraisal process •ICZM - Using the RBMP process, continue to include departmental co-operation for TraC water body management. •Introduce soft edges to inferior habitats •Survey Banks/Coast •Use MImAS as a risk assessment tool to assess water body status deterioration related to developments affecting transitional and coastal water bodies 	<ul style="list-style-type: none"> •Definition of GEP - EPA •Definition of needs - CFB, NPWS, OPW •Enforcement of new regulations/guidelines - Las •Funding for pilot measures implementation - DEHLG •Implementation sequencing - all owners •Implementation sequencing - LAs •LA resources - DEHLG •Legislation/guidance - DEHLG •Natural recovery - Nature •Planning - NPWS, LA, An Bord Plenala •Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Nanny Estuary



Symbols	Meaning
	County boundaries
	Water Management Unit
	Transitional water body of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Nanny Estuary

Water Bodies in WMU	Current Status	Achieve Good Status by
Nanny Estuary	Unknown	2027

Wastewater Treatment Plants

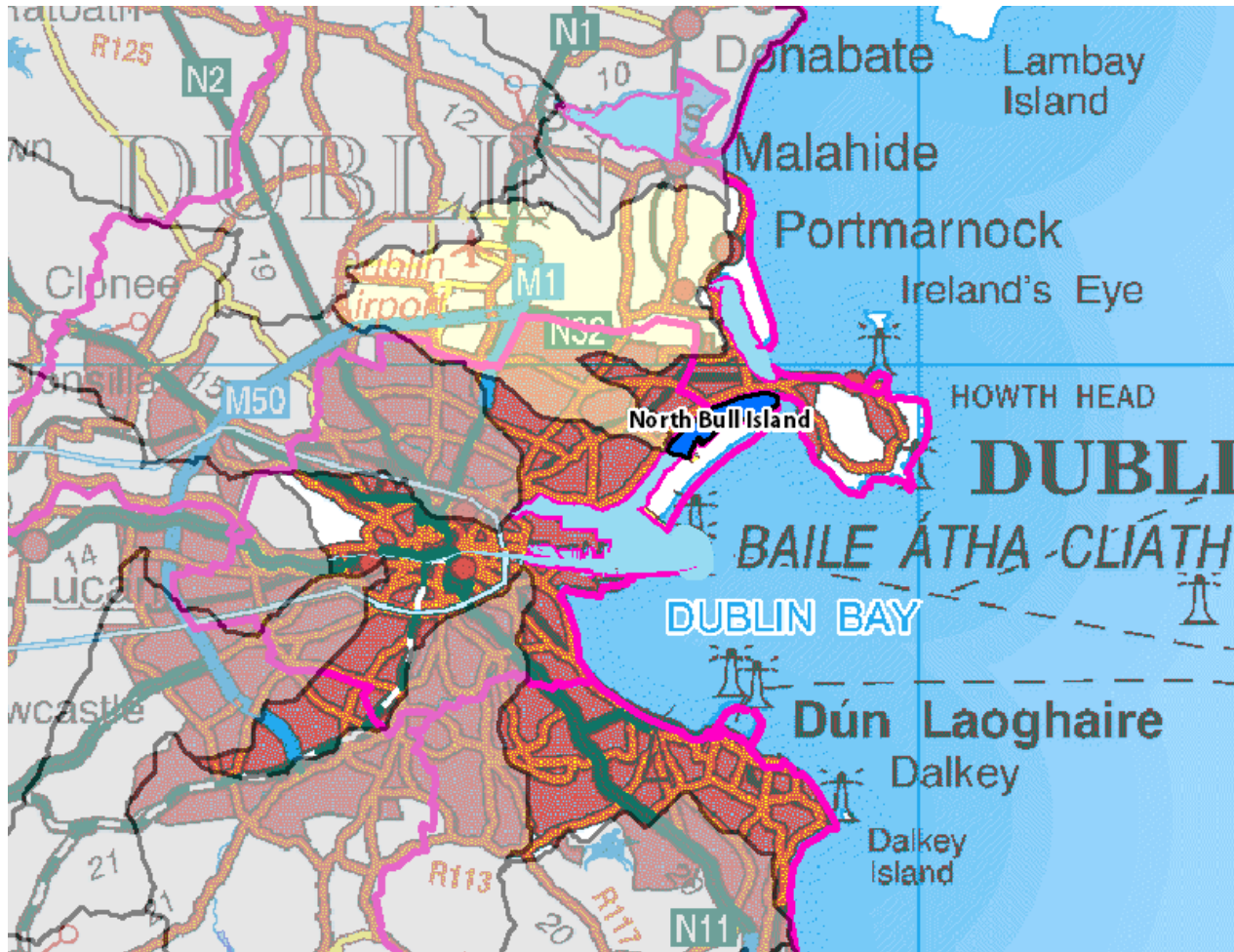
None.




Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	100%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EPA Waste (Licensing) Regulations, 2004 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Collection system - Network management & operations programme •Collection System - Upgrades and rehabilitation •CSO - Implement FOGG Regulations •Further investigation/monitoring required •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> •EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) •Foreshore Act (1933) •Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> •An Bord Pleanala, LA, CFB - Inspections •Courts - Enforcement •DEHLG, DEMNR, OPW - Grant Funding •EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency •OPW, EPA, DCMNR - Regulatory Agency •Owner - Funding •Owner, OPW - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Definition of GEP - EPA •Definition of needs - CFB, NPWS, OPW •Enforcement of new regulations/guidelines - Las •Funding for pilot measures implementation - DEHLG •Implementation sequencing - all owners •Implementation sequencing - LAs •LA resources - DEHLG •Legislation/guidance - DEHLG •Natural recovery - Nature •Planning - NPWS, LA, An Bord Plenala •Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

North Bull Island



Symbols	Meaning
	County boundaries
	Water Management Unit
	Transitional water body of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

North Bull Island

Water Bodies in WMU	Current Status	Achieve Good Status by
North Bull Island	Unknown	2027

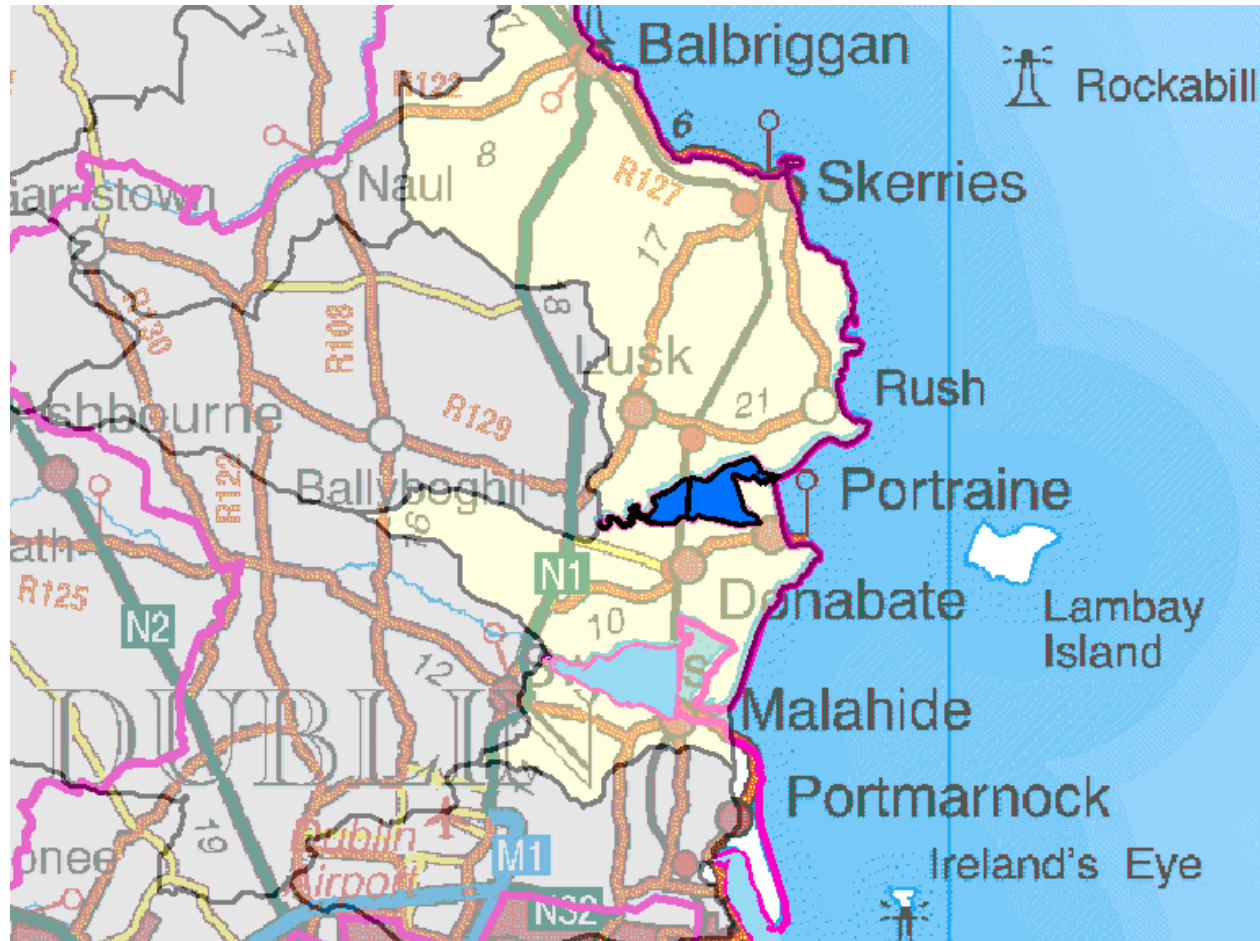
Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	30%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Diffuse Runoff (Urban) - Gullies Management •Diffuse Runoff (Urban) - Implement SUDS (Including Green Roofs Guidance) •Diffuse Runoff (Urban) - Storm sewers separation and qualitative improvement •Diffuse Runoff (Urban) - Street Cleaning Programme •Further investigation/monitoring required •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	70%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) EPA (Licensing) Regulations, 1994 & 2004 EPA Waste (Licensing) Regulations, 2004 Local Government (Water Pollution) Act 1 of 1977 and amendments Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) Urban Waste Water Treatment Regulations, 2001 - 2004 Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) Water Services Act 2007 	<ul style="list-style-type: none"> Courts - Enforcement DEHLG - Grant Funding (WSIP) DEHLG, EPA - Regulatory Agency EPA, LA - Inspections EPA, LA - Licensing Agency Plant owner - Funding Plant owner - Implementor 	<ul style="list-style-type: none"> Collection system - Network management & operations programme Collection System - Upgrades and rehabilitation CSO - Implement FOGG Regulations Diffuse Runoff (Urban) - Gullies Management Diffuse Runoff (Urban) - Implement SUDS (Including Green Roofs Guidance) Diffuse Runoff (Urban) - Storm sewers separation and qualitative improvement Diffuse Runoff (Urban) - Street Cleaning Programme Further investigation/monitoring required Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> Contract approval - DEHLG WSIP Funding, Owner funding Funding for pilot implementation - DEHLG Inclusion on WSIP planning list - DEHLG Licensing as necessary - EPA Operational improvements - Owner, operator Owner implementation - Owner Planning controls - LAs, An Bord Plenala Preparation of Water Services Strategic Plans - Local Authority Regulatory approvals - DEHLG, EPA WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement EPA Guidance LA - Inspections LA Bye Laws, LA Planning - Licensing Agency Owner - Implementor 	<ul style="list-style-type: none"> Further investigation/monitoring required Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> Enforcement of new regulations/guidelines - Las Funding of pilot measures - DEHLG Legislation/guidance - DEHLG/EPA Local Authority Resources - DEHLG Natural recovery - Nature Owner funding - Owner Programme implementation sequencing - LAs Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) Foreshore Act (1933) Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> An Bord Pleanala, LA, CFB - Inspections Courts - Enforcement DEHLG, DEMNR, OPW - Grant Funding EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency OPW, EPA, DCMNR - Regulatory Agency Owner - Funding Owner, OPW - Implementor 	<ul style="list-style-type: none"> Apply Heavily Modified Waterbody Measures (See External Document) Assess the effects of coastal defences 	<ul style="list-style-type: none"> Definition of GEP - EPA Definition of needs - CFB, NPWS, OPW Enforcement of new regulations/guidelines - Las Funding for pilot measures implementation - DEHLG Implementation sequencing - all owners Implementation sequencing - LAs LA resources - DEHLG Legislation/guidance - DEHLG Natural recovery - Nature Planning - NPWS, LA, An Bord Plenala Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> National Water Pricing Policy Framework (1998) Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) Water Supplies Act 1942 	<ul style="list-style-type: none"> Abstractor - Implementor An Bord Plenala, LA, DEMNR - Planning Courts - Enforcement DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) EPA, DEMNR - Regulatory Agency EPA, LA - Inspections EPA, LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> No Measure Needed 	<ul style="list-style-type: none"> Enforcement - EPA Evaluation methodology - DEHLG, EPA Funding - DEHLG Natural recovery time - Nature New Regulations - DEHLG Sequencing of implementation - All listed Agencies

Rogerstown Estuary



Symbols	Meaning
	County boundaries
	Water Management Unit
	Transitional water body of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Rogerstown Estuary

Water Bodies in WMU	Current Status	Achieve Good Status by
Rogerstown Estuary	Moderate	2021

Wastewater Treatment Plants

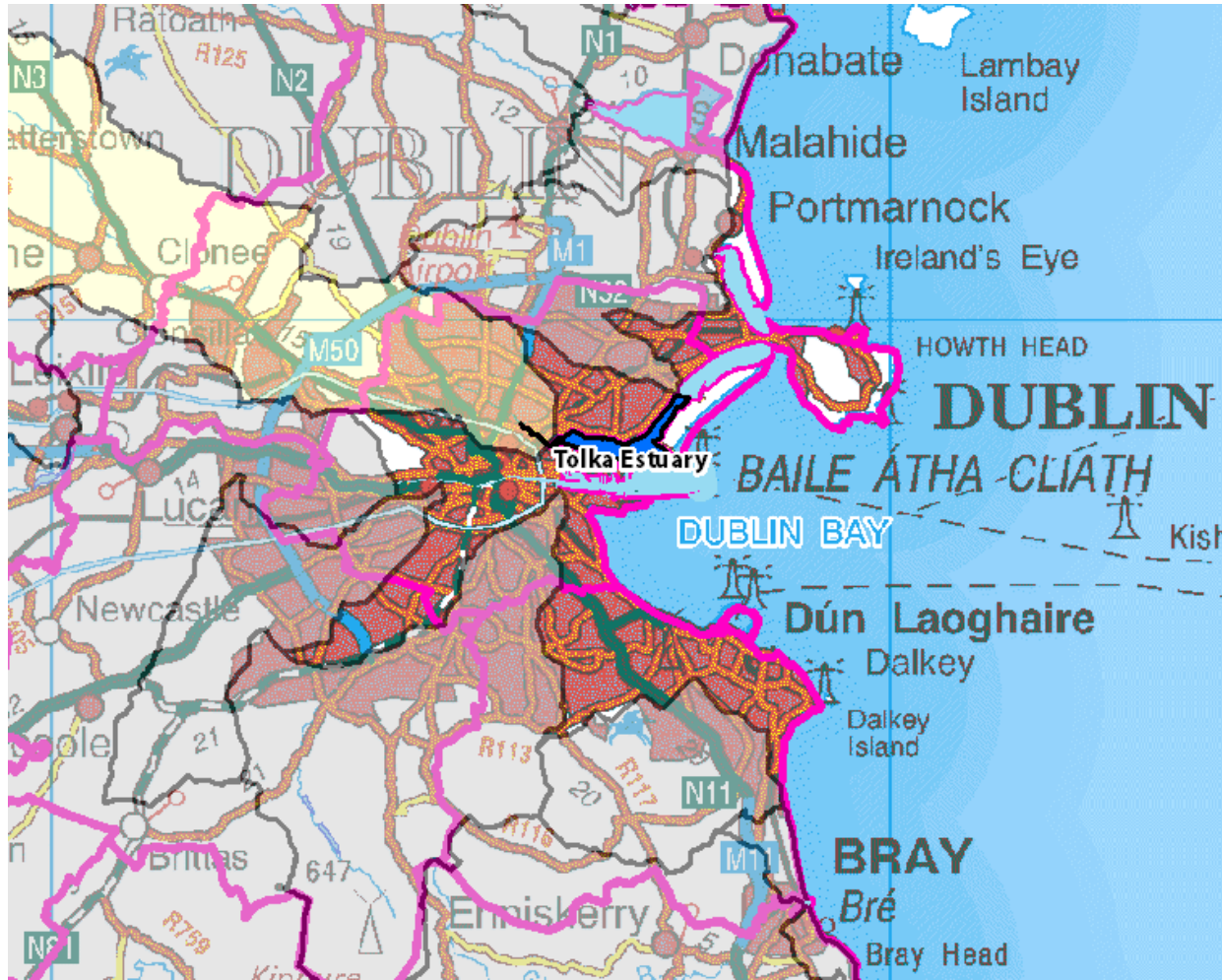
Lusk WwTW

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	20%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	10%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Diffuse Runoff (Urban) - Gullies Management •Diffuse Runoff (Urban) - Implement SUDS (Including Green Roofs Guidance) •Diffuse Runoff (Urban) - Storm sewers separation and qualitative improvement •Diffuse Runoff (Urban) - Street Cleaning Programme •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	70%	<ul style="list-style-type: none"> •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Collection system - Network management & operations programme •Collection System - Upgrades and rehabilitation •CSO - Implement FOGG Regulations •Diffuse Runoff (Urban) - Gullies Management •Diffuse Runoff (Urban) - Implement SUDS (Including Green Roofs Guidance) •Diffuse Runoff (Urban) - Storm sewers separation and qualitative improvement •Diffuse Runoff (Urban) - Street Cleaning Programme •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Implement upstream Programmes of Measures •Treatment Plant Tie-ins 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> •EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) •Foreshore Act (1933) •Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> •An Bord Pleanala, LA, CFB - Inspections •Courts - Enforcement •DEHLG, DEMNR, OPW - Grant Funding •EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency •OPW, EPA, DCMNR - Regulatory Agency •Owner - Funding •Owner, OPW - Implementor 	<ul style="list-style-type: none"> •Assess impacts of causeway •Preserve and/or restore banks •Survey Banks/Coast 	<ul style="list-style-type: none"> •Definition of GEP - EPA •Definition of needs - CFB, NPWS, OPW •Enforcement of new regulations/guidelines - Las •Funding for pilot measures implementation - DEHLG •Implementation sequencing - all owners •Implementation sequencing - LAs •LA resources - DEHLG •Legislation/guidance - DEHLG •Natural recovery - Nature •Planning - NPWS, LA, An Bord Plenala •Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Pleanala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Tolka Estuary



Symbols	Meaning
	County boundaries
	Water Management Unit
	Transitional water body of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Tolka Estuary

Water Bodies in WMU	Current Status	Achieve Good Status by
Tolka Estuary	Moderate	2027

Wastewater Treatment Plants

None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 		<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	30%	<ul style="list-style-type: none"> •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Water Quality Dangerous Substances Regulations, 2001 •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Diffuse Runoff (Urban) - Gullies Management •Diffuse Runoff (Urban) - Implement SUDS (Including Green Roofs Guidance) •Diffuse Runoff (Urban) - Street Cleaning Programme 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 		<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 		<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	70%	<ul style="list-style-type: none"> Local Government (Water Pollution) Act 1 of 1977 and amendments Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) Bathing Water Quality Regulations (S.I. 79 of 2008) Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) EPA (Licensing) Regulations, 1994 & 2004 EPA Waste (Licensing) Regulations, 2004 Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) Urban Waste Water Treatment Regulations, 2001 - 2004 Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) Water Services Act 2007 	<ul style="list-style-type: none"> Courts - Enforcement DEHLG - Grant Funding (WSIP) DEHLG, EPA - Regulatory Agency EPA, LA - Inspections EPA, LA - Licensing Agency Plant owner - Funding Plant owner - Implementor 	<ul style="list-style-type: none"> Assess CSO and Water Quality Impact from Urban Pressures Collection system - Network management & operations programme Collection System - Upgrades and rehabilitation Diffuse Runoff (Urban) - Gullies Management Diffuse Runoff (Urban) - Implement SUDS (Including Green Roofs Guidance) Diffuse Runoff (Urban) - Street Cleaning Programme 	<ul style="list-style-type: none"> Contract approval - DEHLG WSIP Funding, Owner funding Funding for pilot implementation - DEHLG Inclusion on WSIP planning list - DEHLG Licensing as necessary - EPA Operational improvements - Owner, operator Owner implementation - Owner Planning controls - LAs, An Bord Plenala Preparation of Water Services Strategic Plans - Local Authority Regulatory approvals - DEHLG, EPA WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement EPA Guidance LA - Inspections LA Bye Laws, LA Planning - Licensing Agency Owner - Implementor 		<ul style="list-style-type: none"> Enforcement of new regulations/guidelines - Las Funding of pilot measures - DEHLG Legislation/guidance - DEHLG/EPA Local Authority Resources - DEHLG Natural recovery - Nature Owner funding - Owner Programme implementation sequencing - LAs Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) Foreshore Act (1933) Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> An Bord Pleanala, LA, CFB - Inspections Courts - Enforcement DEHLG, DEMNR, OPW - Grant Funding EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency OPW, EPA, DCMNR - Regulatory Agency Owner - Funding Owner, OPW - Implementor 	<ul style="list-style-type: none"> Apply Heavily Modified Waterbody Measures (See External Document) 	<ul style="list-style-type: none"> Definition of GEP - EPA Definition of needs - CFB, NPWS, OPW Enforcement of new regulations/guidelines - Las Funding for pilot measures implementation - DEHLG Implementation sequencing - all owners Implementation sequencing - LAs LA resources - DEHLG Legislation/guidance - DEHLG Natural recovery - Nature Planning - NPWS, LA, An Bord Plenala Public Awareness - DEHLG
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> National Water Pricing Policy Framework (1998) Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) Water Supplies Act 1942 	<ul style="list-style-type: none"> Abstractor - Implementor An Bord Pleanala, LA, DEMNR - Planning Courts - Enforcement DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) EPA, DEMNR - Regulatory Agency EPA, LA - Inspections EPA, LA, DEMNR - Licensing Agency 		<ul style="list-style-type: none"> Enforcement - EPA Evaluation methodology - DEHLG, EPA Funding - DEHLG Natural recovery time - Nature New Regulations - DEHLG Sequencing of implementation - All listed Agencies

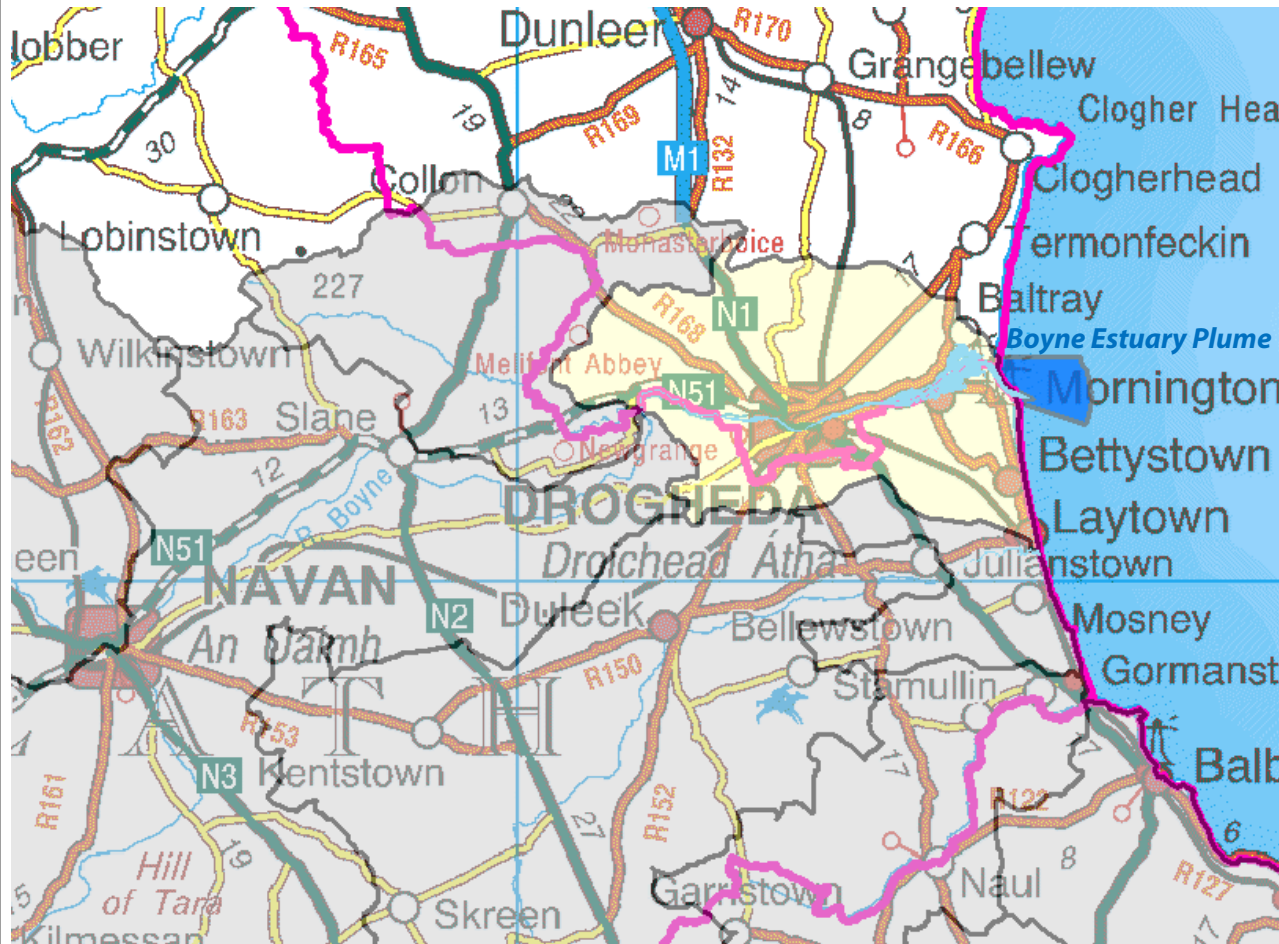


Coastal Water Bodies



eastern
river basin district

Boyne Estuary Plume



Symbols	Meaning
	County boundaries
	Water Management Unit
	Coastal water body of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Boyne Estuary Plume Zone

Water Bodies in WMU	Current Status	Achieve Good Status by
Boyne Estuary Plume Zone	High	2009

Wastewater Treatment Plants

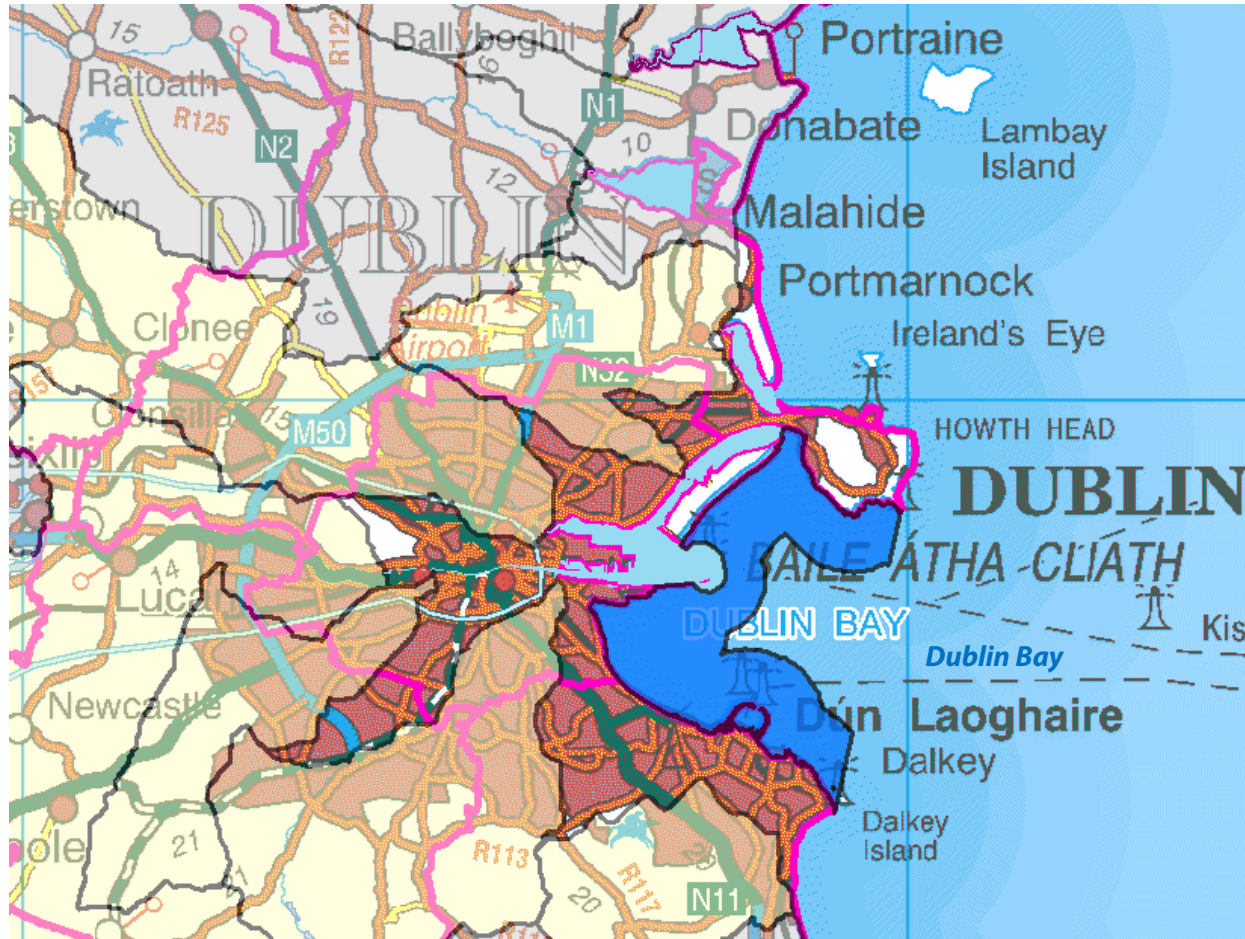
Tullyallen WwTW




Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	20%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	20%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	20%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> •EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) •Foreshore Act (1933) •Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> •An Bord Pleanala, LA, CFB - Inspections •Courts - Enforcement •DEHLG, DEMNR, OPW - Grant Funding •EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency •OPW, EPA, DCMNR - Regulatory Agency •Owner - Funding •Owner, OPW - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Definition of GEP - EPA •Definition of needs - CFB, NPWS, OPW •Enforcement of new regulations/guidelines - Las •Funding for pilot measures implementation - DEHLG •Implementation sequencing - all owners •Implementation sequencing - LAs •LA resources - DEHLG •Legislation/guidance - DEHLG •Natural recovery - Nature •Planning - NPWS, LA, An Bord Plenala •Public Awareness - DEHLG

Dublin Bay



Symbols	Meaning
	County boundaries
	Water Management Unit
	Costal water body of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Dublin Bay

Water Bodies in WMU	Current Status	Achieve Good Status by
Dublin Bay	Moderate	2027

Wastewater Treatment Plants

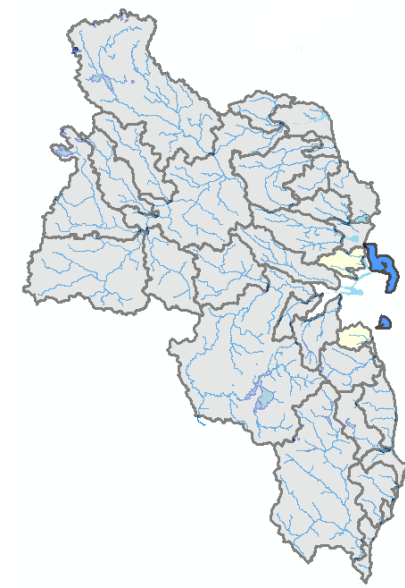
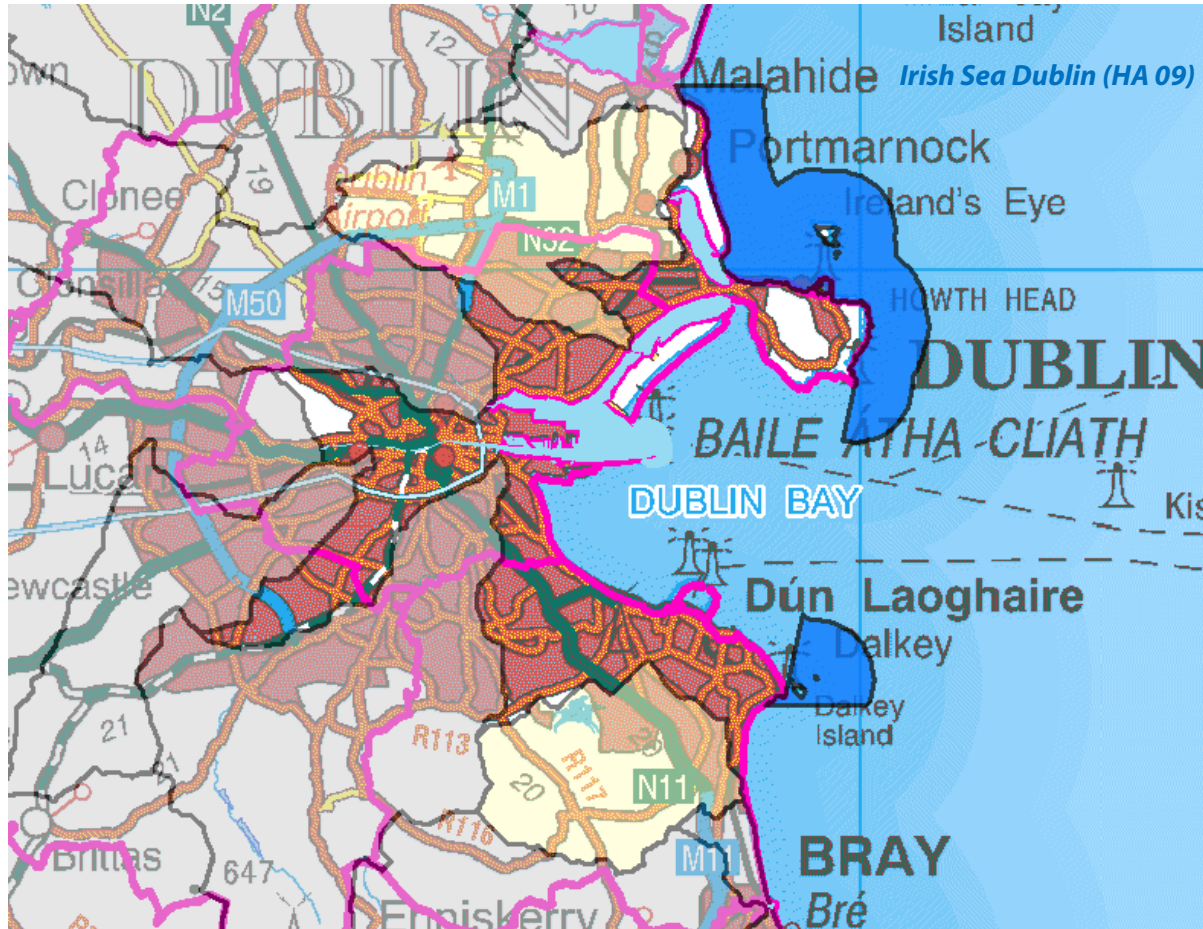
Coliemore Outfall




Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning Development Acts 2000 - 2006 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Implement upstream Programmes of Measures •No Measure Required •Survey Banks/Coast 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning Development Acts 2000 - 2006 •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Diffuse Runoff (Urban) - Gullies Management •Diffuse Runoff (Urban) - Implement SUDS (Including Green Roofs Guidance) •Diffuse Runoff (Urban) - Storm sewers separation and qualitative improvement •Diffuse Runoff (Urban) - Street Cleaning Programme •Harbour dredgings to be suitably disposed of •Implement upstream Programmes of Measures •Monitor shipping activities •No Measure Required •Survey Banks/Coast 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •Planning Development Acts 2000 - 2006 •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Implement upstream Programmes of Measures •No Measure Required •Survey Banks/Coast 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •Planning Development Acts 2000 - 2006 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Implement upstream Programmes of Measures •No Measure Required •Survey Banks/Coast 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	40%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning Development Acts 2000 - 2006 •Water Services Act 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Collection system - Network management & operations programme •Collection System - Upgrades and rehabilitation •CSO - Implement FOGG Regulations •CSOs to comply with GSDSD recommendations •Diffuse Runoff (Urban) - Gullies Management •Diffuse Runoff (Urban) - Implement SUDS (Including Green Roofs Guidance) •Diffuse Runoff (Urban) - Storm sewers separation and qualitative improvement •Diffuse Runoff (Urban) - Street Cleaning Programme •Harbour dredgings to be suitably disposed of •Implement upstream Programmes of Measures •LA to adopt a common approach to issuance of Section 4 and 16 licences •No Measure Required •Survey Banks/Coast 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Pleanala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	20%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Planning Development Acts 2000 - 2006 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Implement upstream Programmes of Measures •No Measure Required •Survey Banks/Coast 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> •EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) •Foreshore Act (1933) •Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> •An Bord Pleanala, LA, CFB - Inspections •Courts - Enforcement •DEHLG, DEMNR, OPW - Grant Funding •EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency •OPW, EPA, DCMNR - Regulatory Agency •Owner - Funding •Owner, OPW - Implementor 	<ul style="list-style-type: none"> •Apply Heavily Modified Waterbody Measures (See External Document) 	<ul style="list-style-type: none"> •Definition of GEP - EPA •Definition of needs - CFB, NPWS, OPW •Enforcement of new regulations/guidelines - Las •Funding for pilot measures implementation - DEHLG •Implementation sequencing - all owners •Implementation sequencing - LAs •LA resources - DEHLG •Legislation/guidance - DEHLG •Natural recovery - Nature •Planning - NPWS, LA, An Bord Pleanala •Public Awareness - DEHLG

Irish Sea Dublin(HA09)



Symbols	Meaning
	County boundaries
	Water Management Unit
	Costal water body of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Irish Sea Dublin (HA 09)

Water Bodies in WMU	Current Status	Achieve Good Status by
Irish Sea Dublin (HA 09)	Moderate	2021

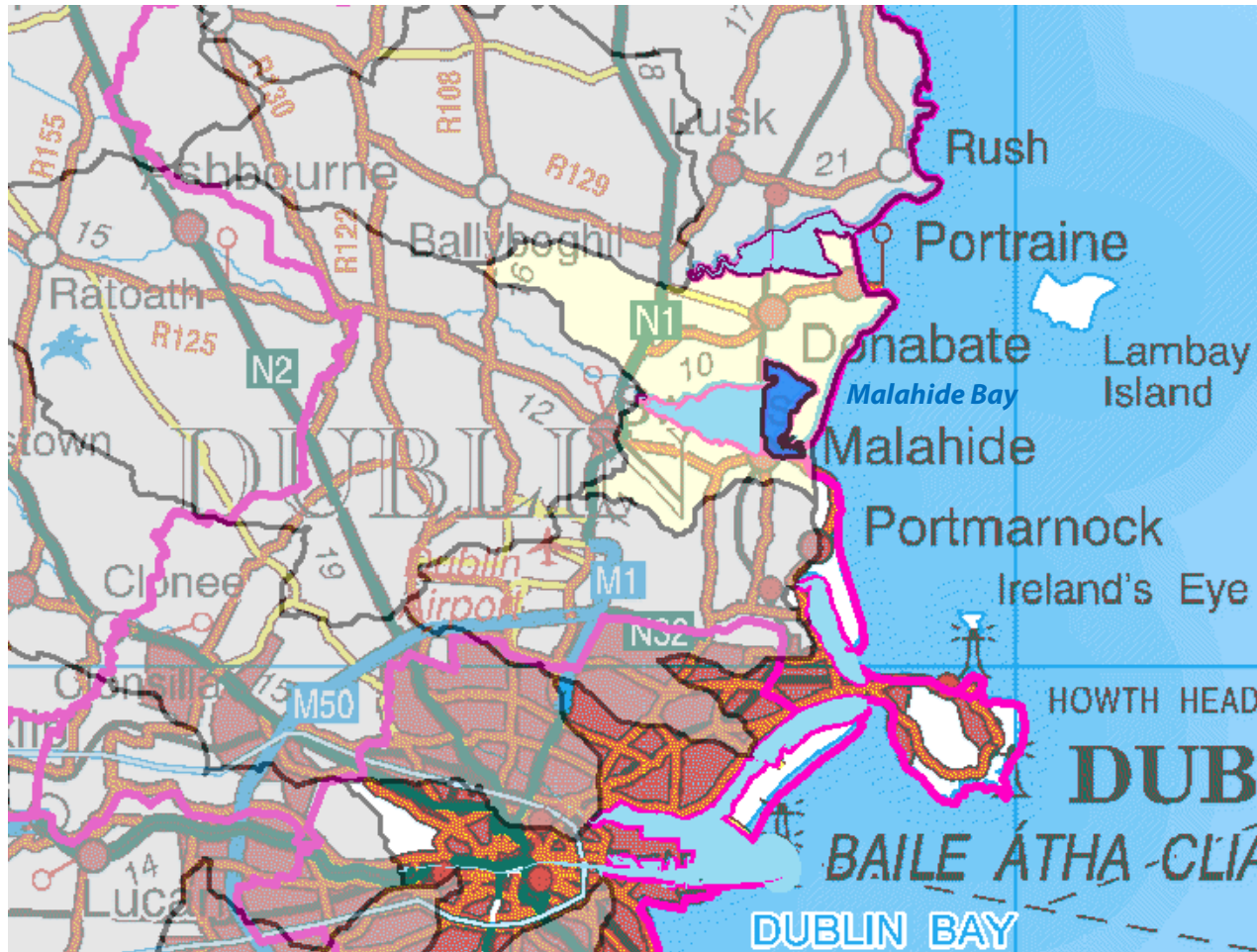
Wastewater Treatment Plants
None.




Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	10%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •No Measure Required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	20%	<ul style="list-style-type: none"> •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	10%	<ul style="list-style-type: none"> •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	10%	<ul style="list-style-type: none"> •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Further investigation/monitoring required •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	10%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •No Measure Required 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	30%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •No Measure Required 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> •EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) •Foreshore Act (1933) •Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> •An Bord Pleanala, LA, CFB - Inspections •Courts - Enforcement •DEHLG, DEMNR, OPW - Grant Funding •EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency •OPW, EPA, DCMNR - Regulatory Agency •Owner - Funding •Owner, OPW - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Definition of GEP - EPA •Definition of needs - CFB, NPWS, OPW •Enforcement of new regulations/guidelines - Las •Funding for pilot measures implementation - DEHLG •Implementation sequencing - all owners •Implementation sequencing - LAs •LA resources - DEHLG •Legislation/guidance - DEHLG •Natural recovery - Nature •Planning - NPWS, LA, An Bord Plenala •Public Awareness - DEHLG

Northwestern Irish Sea (HA08)



Symbols	Meaning
	County boundaries
	Water Management Unit
	Costal water body of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Malahide Bay

Water Bodies in WMU	Current Status	Achieve Good Status by
Malahide Bay	Moderate	2027

Wastewater Treatment Plants

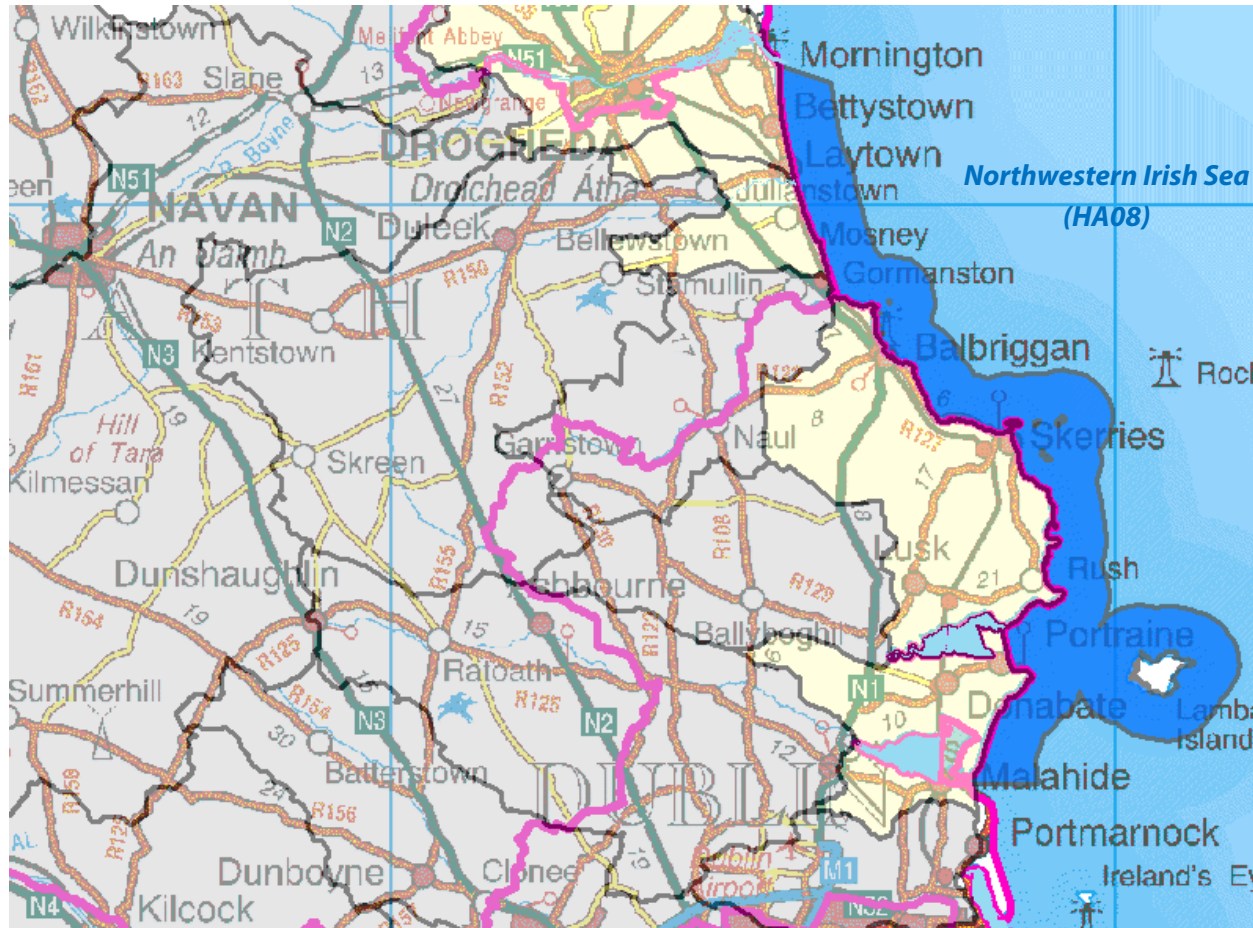
Malahide WwTW

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	20%	<ul style="list-style-type: none"> •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Diffuse Runoff (Urban) - Gullies Management •Diffuse Runoff (Urban) - Implement SUDS (Including Green Roofs Guidance) •Diffuse Runoff (Urban) - Storm sewers separation and qualitative improvement •Diffuse Runoff (Urban) - Street Cleaning Programme •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	70%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Collection system - Network management & operations programme •Collection System - Upgrades and rehabilitation •CSO - Implement FOGG Regulations •Diffuse Runoff (Urban) - Gullies Management •Diffuse Runoff (Urban) - Implement SUDS (Including Green Roofs Guidance) •Diffuse Runoff (Urban) - Storm sewers separation and qualitative improvement •Diffuse Runoff (Urban) - Street Cleaning Programme •Implement upstream Programmes of Measures •Tertiary Treatment 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Pleanala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Implement upstream Programmes of Measures 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> •EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) •Foreshore Act (1933) •Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> •An Bord Pleanala, LA, CFB - Inspections •Courts - Enforcement •DEHLG, DEMNR, OPW - Grant Funding •EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency •OPW, EPA, DCMNR - Regulatory Agency •Owner - Funding •Owner, OPW - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Definition of GEP - EPA •Definition of needs - CFB, NPWS, OPW •Enforcement of new regulations/guidelines - Las •Funding for pilot measures implementation - DEHLG •Implementation sequencing - all owners •Implementation sequencing - LAs •LA resources - DEHLG •Legislation/guidance - DEHLG •Natural recovery - Nature •Planning - NPWS, LA, An Bord Pleanala •Public Awareness - DEHLG

Northwestern Irish Sea (HA08)



Symbols	Meaning
	County boundaries
	Water Management Unit
	Costal water body of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Northwestern Irish Sea (HA 08)

Water Bodies in WMU	Current Status	Achieve Good Status by
Northwestern Irish Sea (HA 08)	High	2009

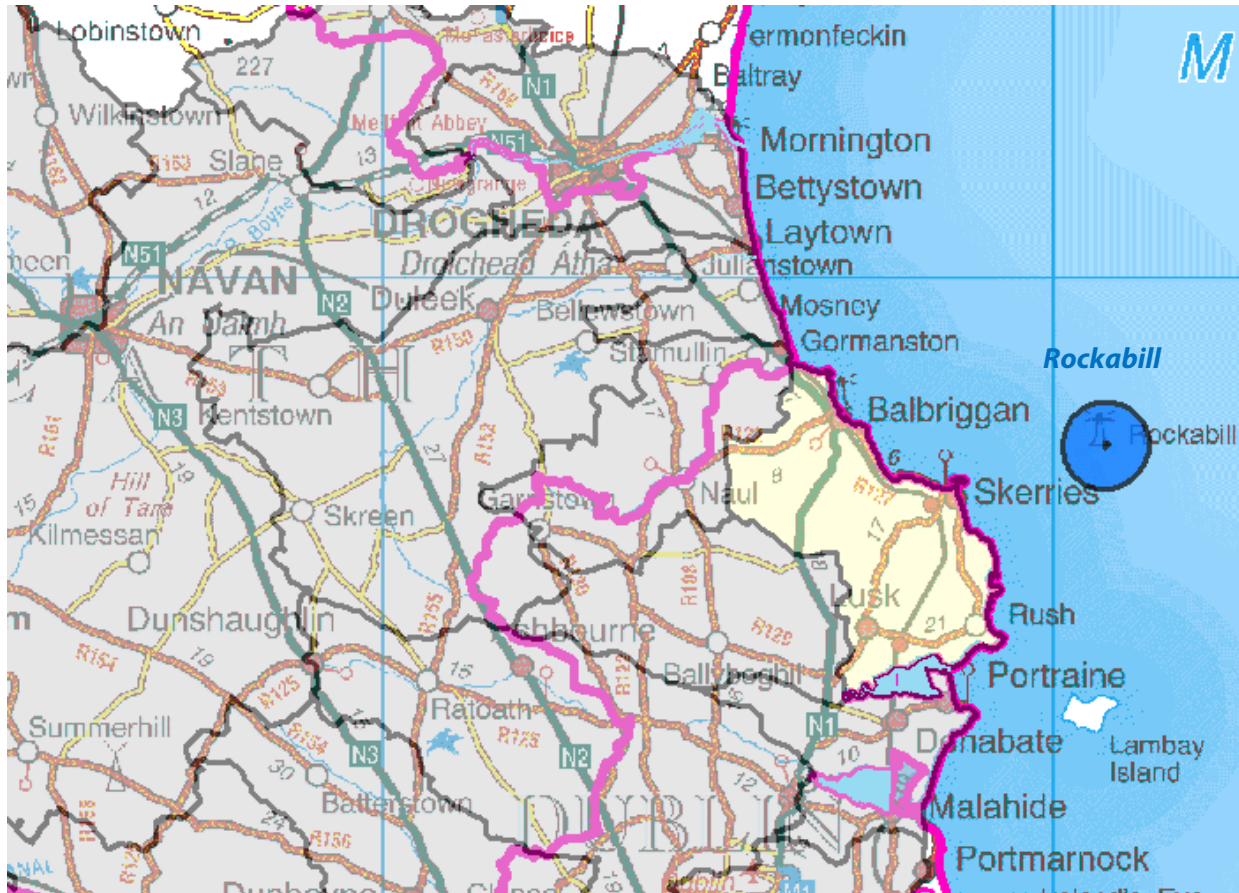
Wastewater Treatment Plants
Balbriggan Outfall
Loughshinny WwTW
Portrane WwTW
Rush Outfall
Skerries WwTW




Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Implement upstream Programmes of Measures •No Measure Required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Cross Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Implement upstream Programmes of Measures •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Implement upstream Programmes of Measures •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Implement upstream Programmes of Measures •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	70%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Implement upstream Programmes of Measures •No Measure Required 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Pleanala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Implement upstream Programmes of Measures •No Measure Required 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> •Planning and Development Regulations 2001 - 2007 •EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) •Foreshore Act (1933) 	<ul style="list-style-type: none"> •An Bord Pleanala, LA, CFB - Inspections •Courts - Enforcement •DEHLG, DEMNR, OPW - Grant Funding •EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency •OPW, EPA, DCMNR - Regulatory Agency •Owner - Funding •Owner, OPW - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Definition of GEP - EPA •Definition of needs - CFB, NPWS, OPW •Enforcement of new regulations/guidelines - Las •Funding for pilot measures implementation - DEHLG •Implementation sequencing - all owners •Implementation sequencing - LAs •LA resources - DEHLG •Legislation/guidance - DEHLG •Natural recovery - Nature •Planning - NPWS, LA, An Bord Pleanala •Public Awareness - DEHLG

Rockabill



Symbols	Meaning
	County boundaries
	Water Management Unit
	Costal water body of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Rockabill

Water Bodies in WMU	Current Status	Achieve Good Status by
Rockabill	UA	2021

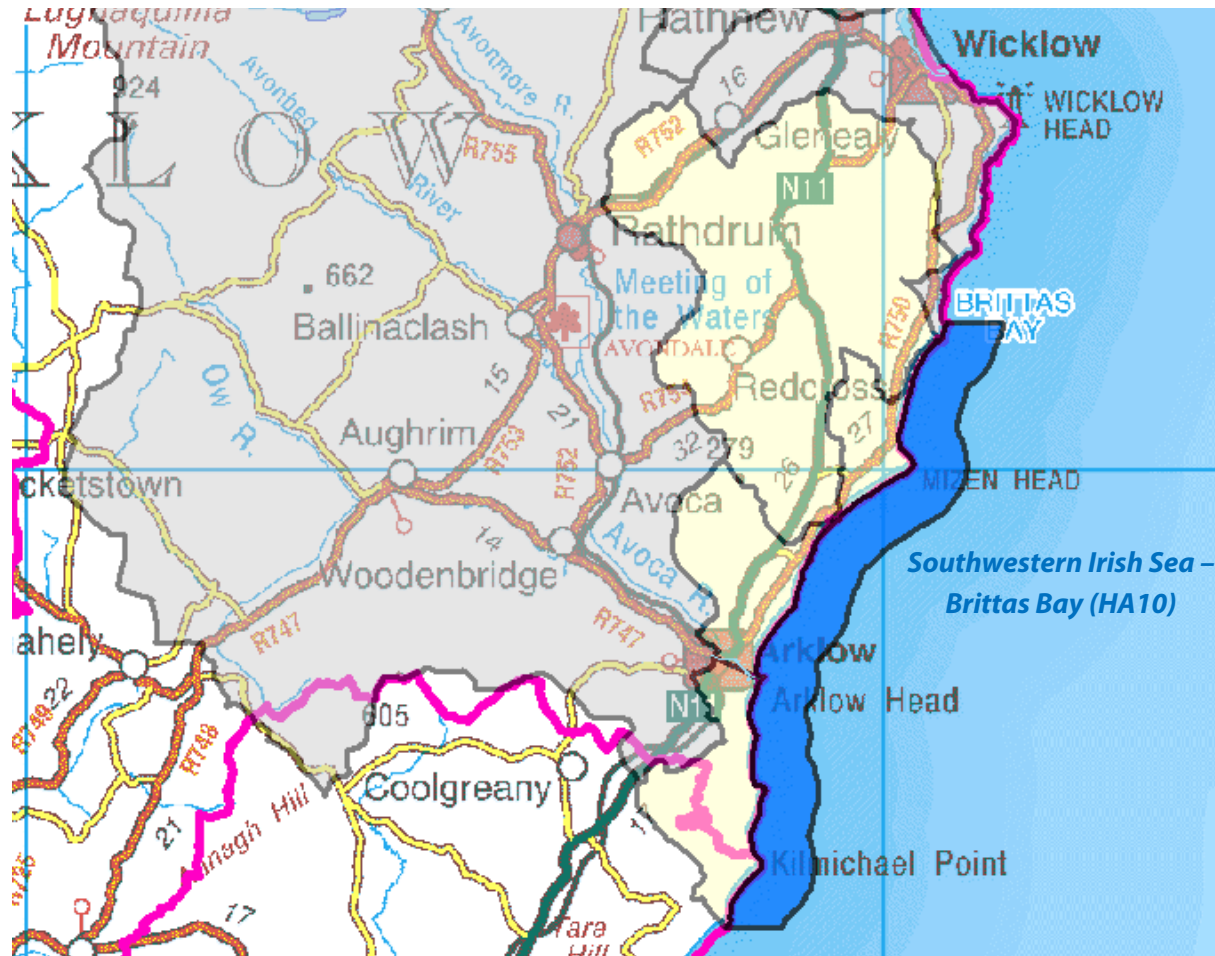
Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	20%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •No Measure Required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Further investigation/monitoring required •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	20%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •No Measure Required 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	20%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •No Measure Required 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> •EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) •Foreshore Act (1933) •Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> •An Bord Pleanala, LA, CFB - Inspections •Courts - Enforcement •DEHLG, DEMNR, OPW - Grant Funding •EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency •OPW, EPA, DCMNR - Regulatory Agency •Owner - Funding •Owner, OPW - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Definition of GEP - EPA •Definition of needs - CFB, NPWS, OPW •Enforcement of new regulations/guidelines - Las •Funding for pilot measures implementation - DEHLG •Implementation sequencing - all owners •Implementation sequencing - LAs •LA resources - DEHLG •Legislation/guidance - DEHLG •Natural recovery - Nature •Planning - NPWS, LA, An Bord Plenala •Public Awareness - DEHLG

Southwestern Irish Sea-Brittias Bay (HA10)



Symbols	Meaning
	County boundaries
	Water Management Unit
	Costal water body of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Southwestern Irish Sea - Brittas Bay (HA 10)

Water Bodies in WMU	Current Status	Achieve Good Status by
Southwestern Irish Sea - Brittas Bay (HA 10)	UA	2021

Wastewater Treatment Plants

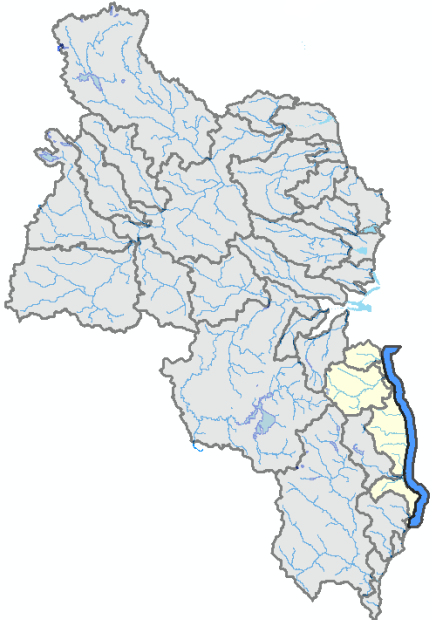
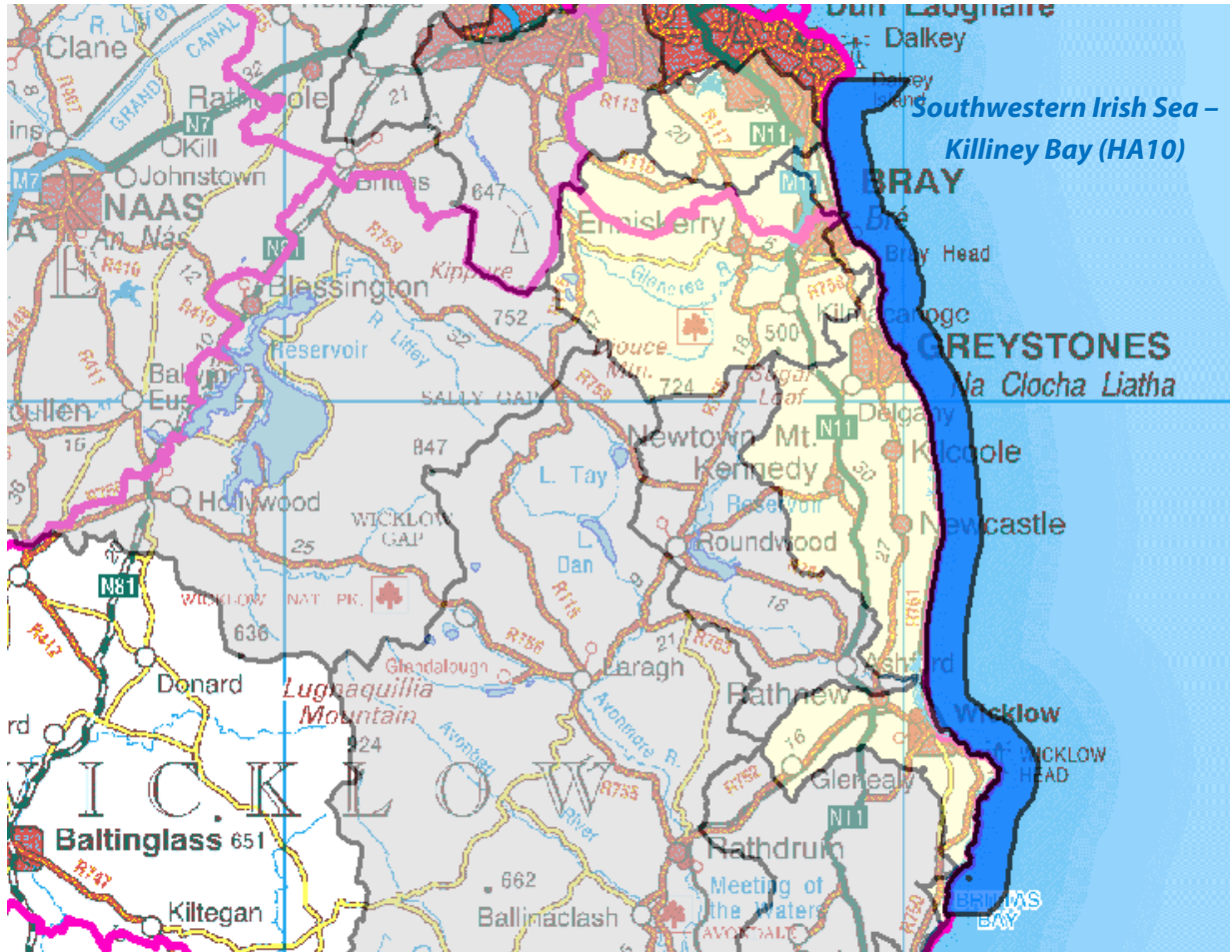
None.




Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	10%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Local Government (Water Pollution) Act 1 of 1977 and amendments •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Implement upstream Programmes of Measures •No Measure Required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Water Quality Dangerous Substances Regulations, 2001 •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Implement upstream Programmes of Measures •Monitor shipping activities •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Implement upstream Programmes of Measures •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	10%	<ul style="list-style-type: none"> •EPA Waste (Licensing) Regulations, 2004 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Implement upstream Programmes of Measures •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Inspection - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	60%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Collection System - Upgrades and rehabilitation •Further investigation/monitoring required •Implement upstream Programmes of Measures •No Measure Required 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Implement upstream Programmes of Measures •No Measure Required 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> •EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) •Foreshore Act (1933) •Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> •An Bord Pleanala, LA, CFB - Inspections •Courts - Enforcement •DEHLG, DEMNR, OPW - Grant Funding •EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency •OPW, EPA, DCMNR - Regulatory Agency •Owner - Funding •Owner, OPW - Implementor 	<ul style="list-style-type: none"> •Assess need for barrier removal based on risk and expert judgement •Assess the effects of coastal defences •Consider morphology within the current development (SEA, EIA, etc) appraisal process •Implement Coastal Zone Management policies and recommendations •No Measure Required •Review of marine departmental responsibilities and legislative coverage of transitional and coastal water bodies. •Survey Banks/Coast 	<ul style="list-style-type: none"> •Definition of GEP - EPA •Definition of needs - CFB, NPWS, OPW •Enforcement of new regulations/guidelines - Las •Funding for pilot measures implementation - DEHLG •Implementation sequencing - all owners •Implementation sequencing - LAs •LA resources - DEHLG •Legislation/guidance - DEHLG •Natural recovery - Nature •Planning - NPWS, LA, An Bord Plenala •Public Awareness - DEHLG

Southwestern Irish Sea-Killiney Bay (HA10)



Symbols	Meaning
	County boundaries
	Water Management Unit
	Costal water body of interest

Eastern River Basin Management Plan – Programme of Measures Summary Report

Southwestern Irish Sea - Killiney Bay (HA10)

Water Bodies in WMU	Current Status	Achieve Good Status by
Southwestern Irish Sea - Killiney Bay (HA10)	High	2009

Wastewater Treatment Plants

Shanganagh WwTW

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio-Chemical)	10%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Survey Banks/Coast 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	10%	<ul style="list-style-type: none"> •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EPA (Licensing) Regulations, 1994 & 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Diffuse Runoff (Urban) - Gullies Management •Diffuse Runoff (Urban) - Implement SUDS (Including Green Roofs Guidance) •Diffuse Runoff (Urban) - Storm sewers separation and qualitative improvement •Diffuse Runoff (Urban) - Street Cleaning Programme •Monitor shipping activities •Survey Banks/Coast 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Survey Banks/Coast 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	10%	<ul style="list-style-type: none"> •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Survey Banks/Coast 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	70%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EPA (Licensing) Regulations, 1994 & 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Collection system - Network management & operations programme •Collection System - Upgrades and rehabilitation •CSO - Implement FOGG Regulations •Diffuse Runoff (Urban) - Gullies Management •Diffuse Runoff (Urban) - Implement SUDS (Including Green Roofs Guidance) •Diffuse Runoff (Urban) - Storm sewers separation and qualitative improvement •Diffuse Runoff (Urban) - Street Cleaning Programme •Survey Banks/Coast •Upgrade WWTW and Collecting Systems <2000 PE 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Enforce regulations on septic systems •Survey Banks/Coast 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Physical Modifications (Morphological)	100%	<ul style="list-style-type: none"> •EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards) •Foreshore Act (1933) •Planning and Development Regulations 2001 - 2007 	<ul style="list-style-type: none"> •An Bord Pleanala, LA, CFB - Inspections •Courts - Enforcement •DEHLG, DEMNR, OPW - Grant Funding •EPA, OPW, An Bord Pleanala, DEHLG, DEMNR - Licensing Agency •OPW, EPA, DCMNR - Regulatory Agency •Owner - Funding •Owner, OPW - Implementor 	<ul style="list-style-type: none"> •Assess need for barrier removal based on risk and expert judgement •Assess the effects of coastal defences •Consider morphology within the current development (SEA, EIA, etc) appraisal process •Implement Coastal Zone Management policies and recommendations •No Measure Required •Review dredging practice 	<ul style="list-style-type: none"> •Definition of GEP - EPA •Definition of needs - CFB, NPWS, OPW •Enforcement of new regulations/guidelines - Las •Funding for pilot measures implementation - DEHLG •Implementation sequencing - all owners •Implementation sequencing - LAs •LA resources - DEHLG •Legislation/guidance - DEHLG •Natural recovery - Nature •Planning - NPWS, LA, An Bord Plenala •Public Awareness - DEHLG



Groundwater Bodies



eastern
river basin district

ID	Groundwater Body
1	Dunshaughlin
2	Hill of Tara
3	Hynestown
4	Longwood
5	Moynalty
6	Moynalty
7	Realtage
8	Swords_CL
9	Aleckafin_CL
10	Basketstown_LF
11	Tinnakilly_CL
12	Bettystown
13	Donore
14	Boyle_CL
15	Drogheda_LF
16	Naas_CL
17	Walkinstown_CL
18	Duleek
19	Ballany S&G
20	Ballymore Eustace S&G
21	Blessington S&G
22	Kilrathmurry S&G
23	Lusk-Bog of the Ring
24	Navan Orebody 2
25	Navan Tailings
26	Naas_SG Urban
27	Naas Bedrock Nth Urban
28	Rush Urban
29	Newbridge Urban
30	Curragh S&G
31	Ashbourne Urban Nth
32	Ashbourne Urban Sth
33	Trim Urban
34	Lusk-East
35	Skerries Sth Urban
36	Skerries Nth Urban
37	Wilkinstown
38	Navan Sth Urban
39	Trim
40	Drogheda Urban

ID	Groundwater Body
41	Swords
42	Wicklow South
43	Old Kilcullen S&G
44	Balbriggan
45	Balrothery
46	Castlekeeran S&G
47	Drogheda
48	Gormanstown S&G
49	Lough Lene
50	Lusk-West
51	Naas
52	Wicklow Central (Avoca Mine)
53	Arklow_Urban
54	Kilcoole S&G
55	Ashford S&G
56	Bray Urban
57	Greystones Urban
58	Enniskerry S&G
59	Balbriggan Urban
60	Kilcullen
61	Naas Bedrock Sth Urban
62	Navan Nth Urban
63	Navan Orebody
64	Swords Urban
65	Wicklow East
66	Fassaroe_LF
67	Dublin Urban
68	Rye Water Valley
69	Dublin
70	Raheenmore Bog
71	Newtown Lough
72	Mount Hevey Bog
73	Killyconny Bog (Cloghbally)
74	Athboy
75	Bailieborough
S&G	Sand& Gravel
CL	Contaminated Land
LF	Landfill

Location Map for Groundwater Bodies



- Town
- ▭ Eastern River Basin District
- ▭ Other River Basin District
- ▭ County Boundary
- ▭ Groundwater Body

Eastern River Basin Management Plan – Programme of Measures Summary Report

Aleckafin_CL

Water Bodies in WMU	Current Status	Achieve Good Status by
Aleckafin_CL	Good	2009

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EPA (Licensing) Regulations, 1994 & 2004 •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> •EPA (Licensing) Regulations, 1994 & 2004 •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. •No Measure Required 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections •No Measure Required 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Arklow_Urban

Water Bodies in WMU	Current Status	Achieve Good Status by
Arklow_Urban	Good	2009

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Introduce design and construction codes for areas of extreme groundwater vulnerability •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Assess risk groundwater pollution when designing and constructing SUDS alternatives •Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. •No Measure Required •Sewerage Schemes - Prioritise construction supervision for areas of extreme groundwater vulnerability 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections •No Measure Required 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Ashbourne Urban Nth

Water Bodies in WMU	Current Status	Achieve Good Status by
Ashbourne Urban Nth	Good	2009

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	60%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	40%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Assess risk groundwater pollution when designing and constructing SUDS alternatives •Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. •No Measure Required 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections •No Measure Required 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Ashbourne Urban Sth

Water Bodies in WMU	Current Status	Achieve Good Status by
Ashbourne Urban Sth	Good	2009

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Introduce design and construction codes for areas of extreme groundwater vulnerability •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Assess risk groundwater pollution when designing and constructing SUDS alternatives •Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. •No Measure Required •Sewerage Schemes - Prioritise construction supervision for areas of extreme groundwater vulnerability 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections •No Measure Required 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Ashford S&G

Water Bodies in WMU	Current Status	Achieve Good Status by
Ashford S&G	Good	2009

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	60%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 		<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 		<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 		<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 		<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Assess risk groundwater pollution when designing and constructing SUDS alternatives •Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	40%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Athboy (001)

Water Bodies in WMU	Current Status	Achieve Good Status by
Athboy	Good	2009

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio-Chemical)	50%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Restrict use of pesticides within groundwater Source Protection Zones 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Introduce design and construction codes for areas of extreme groundwater vulnerability 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 		<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 		<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) EPA (Licensing) Regulations, 1994 & 2004 EPA Waste (Licensing) Regulations, 2004 Local Government (Water Pollution) Act 1 of 1977 and amendments Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) Urban Waste Water Treatment Regulations, 2001 - 2004 Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) Water Services Act 2007 	<ul style="list-style-type: none"> Courts - Enforcement DEHLG - Grant Funding (WSIP) DEHLG, EPA - Regulatory Agency EPA,LA - Inspections EPA,LA - Licensing Agency Plant owner - Funding Plant owner - Implementor 	<ul style="list-style-type: none"> Assess risk groundwater pollution when designing and constructing SUDS alternatives Avoid sewer systems in Inner Source Protection Zones Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. Sewerage Schemes - Prioritise construction supervision for areas of extreme groundwater vulnerability 	<ul style="list-style-type: none"> Contract approval - DEHLG WSIP Funding, Owner funding Funding for pilot implementation - DEHLG Inclusion on WSIP planning list - DEHLG Licensing as necessary - EPA Operational improvements - Owner, operator Owner implementation - Owner Planning controls - LAs, An Bord Plenala Preparation of Water Services Strategic Plans - Local Authority Regulatory approvals - DEHLG, EPA WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	50%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement EPA Guidance LA - Inspections LA Bye Laws, LA Planning - Licensing Agency Owner - Implementor 	<ul style="list-style-type: none"> LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections 	<ul style="list-style-type: none"> Enforcement of new regulations/guidelines - Las Funding of pilot measures - DEHLG Legislation/guidance - DEHLG/EPA Local Authority Resources - DEHLG Natural recovery - Nature Owner funding - Owner Programme implementation sequencing - LAs Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> National Water Pricing Policy Framework (1998) Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) Water Supplies Act 1942 	<ul style="list-style-type: none"> Abstractor - Implementor An Bord Plenala, LA, DEMNR - Planning Courts - Enforcement DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) EPA, DEMNR - Regulatory Agency EPA,LA - Inspections EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> No Measure Needed 	<ul style="list-style-type: none"> Enforcement - EPA Evaluation methodology - DEHLG, EPA Funding - DEHLG Natural recovery time - Nature New Regulations - DEHLG Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Baillieborough

Water Bodies in WMU	Current Status	Achieve Good Status by
Baillieborough	Good	2009

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Introduce design and construction codes for areas of extreme groundwater vulnerability •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) EPA (Licensing) Regulations, 1994 & 2004 EPA Waste (Licensing) Regulations, 2004 Local Government (Water Pollution) Act 1 of 1977 and amendments Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) Urban Waste Water Treatment Regulations, 2001 - 2004 Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) Water Services Act 2007 	<ul style="list-style-type: none"> Courts - Enforcement DEHLG - Grant Funding (WSIP) DEHLG, EPA - Regulatory Agency EPA, LA - Inspections EPA, LA - Licensing Agency Plant owner - Funding Plant owner - Implementor 	<ul style="list-style-type: none"> Assess risk groundwater pollution when designing and constructing SUDS alternatives Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. No Measure Required Sewerage Schemes - Prioritise construction supervision for areas of extreme groundwater vulnerability 	<ul style="list-style-type: none"> Contract approval - DEHLG WSIP Funding, Owner funding Funding for pilot implementation - DEHLG Inclusion on WSIP planning list - DEHLG Licensing as necessary - EPA Operational improvements - Owner, operator Owner implementation - Owner Planning controls - LAs, An Bord Plenala Preparation of Water Services Strategic Plans - Local Authority Regulatory approvals - DEHLG, EPA WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement EPA Guidance LA - Inspections LA Bye Laws, LA Planning - Licensing Agency Owner - Implementor 	<ul style="list-style-type: none"> LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections No Measure Required 	<ul style="list-style-type: none"> Enforcement of new regulations/guidelines - Las Funding of pilot measures - DEHLG Legislation/guidance - DEHLG/EPA Local Authority Resources - DEHLG Natural recovery - Nature Owner funding - Owner Programme implementation sequencing - LAs Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> National Water Pricing Policy Framework (1998) Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) Water Supplies Act 1942 	<ul style="list-style-type: none"> Abstractor - Implementor An Bord Plenala, LA, DEMNR - Planning Courts - Enforcement DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) EPA, DEMNR - Regulatory Agency EPA, LA - Inspections EPA, LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> No Measure Needed 	<ul style="list-style-type: none"> Enforcement - EPA Evaluation methodology - DEHLG, EPA Funding - DEHLG Natural recovery time - Nature New Regulations - DEHLG Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Balbriggan Urban

Water Bodies in WMU	Current Status	Achieve Good Status by
Balbriggan Urban	Good	2009

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	20%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •No Measure Required •Restrict use of pesticides within groundwater Source Protection Zones 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Introduce design and construction codes for areas of extreme groundwater vulnerability •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	40%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Assess risk groundwater pollution when designing and constructing SUDS alternatives •Avoid sewer systems in Inner Source Protection Zones •Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. •No Measure Required •Sewerage Schemes - Prioritise construction supervision for areas of extreme groundwater vulnerability 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	20%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections •No Measure Required 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Balbriggan

Water Bodies in WMU	Current Status	Achieve Good Status by
Balbriggan	Good	2009

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •No Measure Required •Restrict use of pesticides within groundwater Source Protection Zones 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Introduce design and construction codes for areas of extreme groundwater vulnerability •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Avoid sewer systems in Inner Source Protection Zones •Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. •No Measure Required •Sewerage Schemes - Prioritise construction supervision for areas of extreme groundwater vulnerability 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections •No Measure Required 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Ballany S&G

Water Bodies in WMU	Current Status	Achieve Good Status by
Ballany S&G	Good	2009

Wastewater Treatment Plants

None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	50%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 		<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 		<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 		<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 		<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Assess risk groundwater pollution when designing and constructing SUDS alternatives •Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	50%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Ballymore Eustace S&G

Water Bodies in WMU	Current Status	Achieve Good Status by
Ballymore Eustace S&G	Good	2009

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	60%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 		<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 		<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 		<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 		<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Assess risk groundwater pollution when designing and constructing SUDS alternatives •Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	40%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Balrothery

Water Bodies in WMU	Current Status	Achieve Good Status by
Balrothery	Good	2009

Wastewater Treatment Plants

None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •No Measure Required •Restrict use of pesticides within groundwater Source Protection Zones 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	100%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Introduce design and construction codes for areas of extreme groundwater vulnerability •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Assess risk groundwater pollution when designing and constructing SUDS alternatives •Avoid sewer systems in Inner Source Protection Zones •Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. •No Measure Required •Sewerage Schemes - Prioritise construction supervision for areas of extreme groundwater vulnerability 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections •No Measure Required 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Basketstown_LF

Water Bodies in WMU	Current Status	Achieve Good Status by
Basketstown_LF	Good	2009

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 		<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EPA Waste (Licensing) Regulations, 2004 •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 		<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 		<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	100%	<ul style="list-style-type: none"> •EPA Waste (Licensing) Regulations, 2004 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 		<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> •EPA Waste (Licensing) Regulations, 2004 •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Assess risk groundwater pollution when designing and constructing SUDS alternatives •Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Bettystown

Water Bodies in WMU	Current Status	Achieve Good Status by
Bettystown	Poor	2027

Wastewater Treatment Plants

Laytown WwTW

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Restrict use of pesticides within groundwater Source Protection Zones 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Introduce design and construction codes for areas of extreme groundwater vulnerability •License and distribute DAF's GIS mapping of cropping patterns to EPA and local authorities •Report and audit sales and usage of pesticides by sector 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 		<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 		<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Assess risk groundwater pollution when designing and constructing SUDS alternatives •Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. •Sewerage Schemes - Establish dedicated groundwater monitoring systems in highest-risk settings •Sewerage Schemes - Prioritise construction supervision for areas of extreme groundwater vulnerability •Well construction practices/requirements 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 		<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Blessington S&G

Water Bodies in WMU	Current Status	Achieve Good Status by
Blessington S&G	Good	2009

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Restrict use of pesticides within groundwater Source Protection Zones 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	100%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Water Quality Dangerous Substances Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 		<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 		<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 		<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Assess risk groundwater pollution when designing and constructing SUDS alternatives •Avoid sewer systems in Inner Source Protection Zones •Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Boyle_CL

Water Bodies in WMU	Current Status	Achieve Good Status by
Boyle_CL	Poor	2027

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio-Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •No Measure Required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EPA (Licensing) Regulations, 1994 & 2004 •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Further investigation/monitoring required •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> •EPA (Licensing) Regulations, 1994 & 2004 •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Assess risk groundwater pollution when designing and constructing SUDS alternatives •Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. •Further investigation/monitoring required •No Measure Required 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections •No Measure Required 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Bray Urban

Water Bodies in WMU	Current Status	Achieve Good Status by
Bray Urban	Good	2009

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio-Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	100%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Introduce design and construction codes for areas of extreme groundwater vulnerability •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) EPA (Licensing) Regulations, 1994 & 2004 EPA Waste (Licensing) Regulations, 2004 Local Government (Water Pollution) Act 1 of 1977 and amendments Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) Urban Waste Water Treatment Regulations, 2001 - 2004 Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) Water Services Act 2007 	<ul style="list-style-type: none"> Courts - Enforcement DEHLG - Grant Funding (WSIP) DEHLG, EPA - Regulatory Agency EPA,LA - Inspections EPA,LA - Licensing Agency Plant owner - Funding Plant owner - Implementor 	<ul style="list-style-type: none"> Assess risk groundwater pollution when designing and constructing SUDS alternatives Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. No Measure Required Sewerage Schemes - Prioritise construction supervision for areas of extreme groundwater vulnerability 	<ul style="list-style-type: none"> Contract approval - DEHLG WSIP Funding, Owner funding Funding for pilot implementation - DEHLG Inclusion on WSIP planning list - DEHLG Licensing as necessary - EPA Operational improvements - Owner, operator Owner implementation - Owner Planning controls - LAs, An Bord Plenala Preparation of Water Services Strategic Plans - Local Authority Regulatory approvals - DEHLG, EPA WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement EPA Guidance LA - Inspections LA Bye Laws, LA Planning - Licensing Agency Owner - Implementor 	<ul style="list-style-type: none"> LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections No Measure Required 	<ul style="list-style-type: none"> Enforcement of new regulations/guidelines - Las Funding of pilot measures - DEHLG Legislation/guidance - DEHLG/EPA Local Authority Resources - DEHLG Natural recovery - Nature Owner funding - Owner Programme implementation sequencing - LAs Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> National Water Pricing Policy Framework (1998) Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) Water Supplies Act 1942 	<ul style="list-style-type: none"> Abstractor - Implementor An Bord Plenala, LA, DEMNR - Planning Courts - Enforcement DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) EPA, DEMNR - Regulatory Agency EPA,LA - Inspections EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> No Measure Needed 	<ul style="list-style-type: none"> Enforcement - EPA Evaluation methodology - DEHLG, EPA Funding - DEHLG Natural recovery time - Nature New Regulations - DEHLG Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Castlekeeran S&G

Water Bodies in WMU	Current Status	Achieve Good Status by
Castlekeeran S&G	Good	2009

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Introduce design and construction codes for areas of extreme groundwater vulnerability •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) EPA (Licensing) Regulations, 1994 & 2004 EPA Waste (Licensing) Regulations, 2004 Local Government (Water Pollution) Act 1 of 1977 and amendments Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) Urban Waste Water Treatment Regulations, 2001 - 2004 Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) Water Services Act 2007 	<ul style="list-style-type: none"> Courts - Enforcement DEHLG - Grant Funding (WSIP) DEHLG, EPA - Regulatory Agency EPA,LA - Inspections EPA,LA - Licensing Agency Plant owner - Funding Plant owner - Implementor 	<ul style="list-style-type: none"> Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. No Measure Required Sewerage Schemes - Prioritise construction supervision for areas of extreme groundwater vulnerability 	<ul style="list-style-type: none"> Contract approval - DEHLG WSIP Funding, Owner funding Funding for pilot implementation - DEHLG Inclusion on WSIP planning list - DEHLG Licensing as necessary - EPA Operational improvements - Owner, operator Owner implementation - Owner Planning controls - LAs, An Bord Plenala Preparation of Water Services Strategic Plans - Local Authority Regulatory approvals - DEHLG, EPA WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement EPA Guidance LA - Inspections LA Bye Laws, LA Planning - Licensing Agency Owner - Implementor 	<ul style="list-style-type: none"> LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections No Measure Required 	<ul style="list-style-type: none"> Enforcement of new regulations/guidelines - Las Funding of pilot measures - DEHLG Legislation/guidance - DEHLG/EPA Local Authority Resources - DEHLG Natural recovery - Nature Owner funding - Owner Programme implementation sequencing - LAs Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> National Water Pricing Policy Framework (1998) Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) Water Supplies Act 1942 	<ul style="list-style-type: none"> Abstractor - Implementor An Bord Plenala, LA, DEMNR - Planning Courts - Enforcement DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) EPA, DEMNR - Regulatory Agency EPA,LA - Inspections EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> No Measure Needed 	<ul style="list-style-type: none"> Enforcement - EPA Evaluation methodology - DEHLG, EPA Funding - DEHLG Natural recovery time - Nature New Regulations - DEHLG Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Curragh S&G

Water Bodies in WMU	Current Status	Achieve Good Status by
Curragh S&G	Good	2009

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •No Measure Required •Restrict use of pesticides within groundwater Source Protection Zones 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Introduce design and construction codes for areas of extreme groundwater vulnerability •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Assess risk groundwater pollution when designing and constructing SUDS alternatives •Avoid sewer systems in Inner Source Protection Zones •Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. •No Measure Required •Sewerage Schemes - Prioritise construction supervision for areas of extreme groundwater vulnerability 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections •No Measure Required 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Donore

Water Bodies in WMU	Current Status	Achieve Good Status by
Donore	Good	2009

Wastewater Treatment Plants

None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	40%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Introduce design and construction codes for areas of extreme groundwater vulnerability •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	60%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. •No Measure Required •Sewerage Schemes - Prioritise construction supervision for areas of extreme groundwater vulnerability 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections •No Measure Required 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Drogheda_LF

Water Bodies in WMU	Current Status	Achieve Good Status by
Drogheda_LF	Poor	2027

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EPA Waste (Licensing) Regulations, 2004 •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	100%	<ul style="list-style-type: none"> •EPA Waste (Licensing) Regulations, 2004 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> •EPA Waste (Licensing) Regulations, 2004 •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Assess risk groundwater pollution when designing and constructing SUDS alternatives •Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Drogheda Urban

Water Bodies in WMU	Current Status	Achieve Good Status by
Drogheda Urban	Poor	2027

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	20%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 		<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EPA (Licensing) Regulations, 1994 & 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Introduce design and construction codes for areas of extreme groundwater vulnerability 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 		<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 		<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> •EPA (Licensing) Regulations, 1994 & 2004 •Water Services Act 2007 •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Assess risk groundwater pollution when designing and constructing SUDS alternatives •Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. •Sewerage Schemes - Establish dedicated groundwater monitoring systems in highest-risk settings •Sewerage Schemes - Prioritise construction supervision for areas of extreme groundwater vulnerability •Well construction practices/requirements 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	80%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - LAs •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Drogheda

Water Bodies in WMU	Current Status	Achieve Good Status by
Drogheda	Poor	2027

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio-Chemical)	40%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Restrict use of pesticides within groundwater Source Protection Zones 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Water Quality Dangerous Substances Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Introduce design and construction codes for areas of extreme groundwater vulnerability •License and distribute DAF's GIS mapping of cropping patterns to EPA and local authorities •Report and audit sales and usage of pesticides by sector 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 		<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 		<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	10%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) EPA (Licensing) Regulations, 1994 & 2004 EPA Waste (Licensing) Regulations, 2004 Local Government (Water Pollution) Act 1 of 1977 and amendments Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) Urban Waste Water Treatment Regulations, 2001 - 2004 Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) Water Services Act 2007 	<ul style="list-style-type: none"> Courts - Enforcement DEHLG - Grant Funding (WSIP) DEHLG, EPA - Regulatory Agency EPA, LA - Inspections EPA, LA - Licensing Agency Plant owner - Funding Plant owner - Implementor 	<ul style="list-style-type: none"> Assess risk groundwater pollution when designing and constructing SUDS alternatives Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. Sewerage Schemes - Establish dedicated groundwater monitoring systems in highest-risk settings Sewerage Schemes - Prioritise construction supervision for areas of extreme groundwater vulnerability Well construction practices/requirements 	<ul style="list-style-type: none"> Contract approval - DEHLG WSIP Funding, Owner funding Funding for pilot implementation - DEHLG Inclusion on WSIP planning list - DEHLG Licensing as necessary - EPA Operational improvements - Owner, operator Owner implementation - Owner Planning controls - LAs, An Bord Plenala Preparation of Water Services Strategic Plans - Local Authority Regulatory approvals - DEHLG, EPA WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	50%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement EPA Guidance LA - Inspections LA Bye Laws, LA Planning - Licensing Agency Owner - Implementor 	<ul style="list-style-type: none"> EPA - Code of Practice for Wastewater Treatment Systems for Single Houses LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections 	<ul style="list-style-type: none"> Enforcement of new regulations/guidelines - Las Funding of pilot measures - DEHLG Legislation/guidance - DEHLG/EPA Local Authority Resources - DEHLG Natural recovery - Nature Owner funding - Owner Programme implementation sequencing - LAs Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> National Water Pricing Policy Framework (1998) Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) Water Supplies Act 1942 	<ul style="list-style-type: none"> Abstractor - Implementor An Bord Plenala, LA, DEMNR - Planning Courts - Enforcement DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) EPA, DEMNR - Regulatory Agency EPA, LA - Inspections EPA, LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> No Measure Needed 	<ul style="list-style-type: none"> Enforcement - EPA Evaluation methodology - DEHLG, EPA Funding - DEHLG Natural recovery time - Nature New Regulations - DEHLG Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Dublin Urban

Water Bodies in WMU	Current Status	Achieve Good Status by
Dublin Urban	Good	2009

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Restrict use of pesticides within groundwater Source Protection Zones 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EPA (Licensing) Regulations, 1994 & 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Introduce design and construction codes for areas of extreme groundwater vulnerability •License and distribute DAF's GIS mapping of cropping patterns to EPA and local authorities •Report and audit sales and usage of pesticides by sector 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 		<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 		<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	40%	<ul style="list-style-type: none"> •EPA (Licensing) Regulations, 1994 & 2004 •Water Services Act 2007 •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Assess risk groundwater pollution when designing and constructing SUDS alternatives •Avoid sewer systems in Inner Source Protection Zones •Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. •Sewerage Schemes - Prioritise construction supervision for areas of extreme groundwater vulnerability 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	20%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Dublin

Water Bodies in WMU	Current Status	Achieve Good Status by
Dublin	Good	2009

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •No Measure Required •Restrict use of pesticides within groundwater Source Protection Zones 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Introduce design and construction codes for areas of extreme groundwater vulnerability •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Assess risk groundwater pollution when designing and constructing SUDS alternatives •Avoid sewer systems in Inner Source Protection Zones •Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. •No Measure Required •Sewerage Schemes - Prioritise construction supervision for areas of extreme groundwater vulnerability 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections •No Measure Required 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Duleek

Water Bodies in WMU	Current Status	Achieve Good Status by
Duleek	Good	2009

Wastewater Treatment Plants

None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	50%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Restrict use of pesticides within groundwater Source Protection Zones 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Introduce design and construction codes for areas of extreme groundwater vulnerability 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 		<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 		<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Assess risk groundwater pollution when designing and constructing SUDS alternatives •Avoid sewer systems in Inner Source Protection Zones •Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. •Sewerage Schemes - Prioritise construction supervision for areas of extreme groundwater vulnerability 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	50%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Dunshaughlin

Water Bodies in WMU	Current Status	Achieve Good Status by
Dunshaughlin	Good	2009

Wastewater Treatment Plants

None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	50%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 		<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Introduce design and construction codes for areas of extreme groundwater vulnerability 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 		<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 		<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) EPA (Licensing) Regulations, 1994 & 2004 EPA Waste (Licensing) Regulations, 2004 Local Government (Water Pollution) Act 1 of 1977 and amendments Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) Urban Waste Water Treatment Regulations, 2001 - 2004 Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) Water Services Act 2007 	<ul style="list-style-type: none"> Courts - Enforcement DEHLG - Grant Funding (WSIP) DEHLG, EPA - Regulatory Agency EPA,LA - Inspections EPA,LA - Licensing Agency Plant owner - Funding Plant owner - Implementor 	<ul style="list-style-type: none"> Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. Sewerage Schemes - Prioritise construction supervision for areas of extreme groundwater vulnerability 	<ul style="list-style-type: none"> Contract approval - DEHLG WSIP Funding, Owner funding Funding for pilot implementation - DEHLG Inclusion on WSIP planning list - DEHLG Licensing as necessary - EPA Operational improvements - Owner, operator Owner implementation - Owner Planning controls - LAs, An Bord Plenala Preparation of Water Services Strategic Plans - Local Authority Regulatory approvals - DEHLG, EPA WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	50%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement EPA Guidance LA - Inspections LA Bye Laws, LA Planning - Licensing Agency Owner - Implementor 	<ul style="list-style-type: none"> LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections 	<ul style="list-style-type: none"> Enforcement of new regulations/guidelines - LAs Funding of pilot measures - DEHLG Legislation/guidance - DEHLG/EPA Local Authority Resources - DEHLG Natural recovery - Nature Owner funding - Owner Programme implementation sequencing - LAs Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> National Water Pricing Policy Framework (1998) Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) Water Supplies Act 1942 	<ul style="list-style-type: none"> Abstractor - Implementor An Bord Plenala, LA, DEMNR - Planning Courts - Enforcement DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) EPA, DEMNR - Regulatory Agency EPA,LA - Inspections EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> No Measure Needed 	<ul style="list-style-type: none"> Enforcement - EPA Evaluation methodology - DEHLG, EPA Funding - DEHLG Natural recovery time - Nature New Regulations - DEHLG Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Enniskerry S&G

Water Bodies in WMU	Current Status	Achieve Good Status by
Enniskerry S&G	Good	2009

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio-Chemical)	60%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Restrict use of pesticides within groundwater Source Protection Zones 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •License and distribute DAF's GIS mapping of cropping patterns to EPA and local authorities •Report and audit sales and usage of pesticides by sector 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 		<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 		<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Assess risk groundwater pollution when designing and constructing SUDS alternatives •Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	40%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Fassaroe_LF

Water Bodies in WMU	Current Status	Achieve Good Status by
Fassaroe_LF	Good	2009

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 		<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EPA Waste (Licensing) Regulations, 2004 •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 		<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 		<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	100%	<ul style="list-style-type: none"> •EPA Waste (Licensing) Regulations, 2004 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 		<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> •EPA Waste (Licensing) Regulations, 2004 •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Assess risk groundwater pollution when designing and constructing SUDS alternatives •Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Gormanstown S&G

Water Bodies in WMU	Current Status	Achieve Good Status by
Gormanstown S&G	Good	2009

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •No Measure Required •Restrict use of pesticides within groundwater Source Protection Zones 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Avoid sewer systems in Inner Source Protection Zones •Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. •No Measure Required 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections •No Measure Required 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Greystones Urban

Water Bodies in WMU	Current Status	Achieve Good Status by
Greystones Urban	Good	2009

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Introduce design and construction codes for areas of extreme groundwater vulnerability •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) EPA (Licensing) Regulations, 1994 & 2004 EPA Waste (Licensing) Regulations, 2004 Local Government (Water Pollution) Act 1 of 1977 and amendments Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) Urban Waste Water Treatment Regulations, 2001 - 2004 Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) Water Services Act 2007 	<ul style="list-style-type: none"> Courts - Enforcement DEHLG - Grant Funding (WSIP) DEHLG, EPA - Regulatory Agency EPA,LA - Inspections EPA,LA - Licensing Agency Plant owner - Funding Plant owner - Implementor 	<ul style="list-style-type: none"> Assess risk groundwater pollution when designing and constructing SUDS alternatives Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. No Measure Required Sewerage Schemes - Prioritise construction supervision for areas of extreme groundwater vulnerability 	<ul style="list-style-type: none"> Contract approval - DEHLG WSIP Funding, Owner funding Funding for pilot implementation - DEHLG Inclusion on WSIP planning list - DEHLG Licensing as necessary - EPA Operational improvements - Owner, operator Owner implementation - Owner Planning controls - LAs, An Bord Plenala Preparation of Water Services Strategic Plans - Local Authority Regulatory approvals - DEHLG, EPA WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement EPA Guidance LA - Inspections LA Bye Laws, LA Planning - Licensing Agency Owner - Implementor 	<ul style="list-style-type: none"> LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections No Measure Required 	<ul style="list-style-type: none"> Enforcement of new regulations/guidelines - Las Funding of pilot measures - DEHLG Legislation/guidance - DEHLG/EPA Local Authority Resources - DEHLG Natural recovery - Nature Owner funding - Owner Programme implementation sequencing - LAs Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> National Water Pricing Policy Framework (1998) Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) Water Supplies Act 1942 	<ul style="list-style-type: none"> Abstractor - Implementor An Bord Plenala, LA, DEMNR - Planning Courts - Enforcement DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) EPA, DEMNR - Regulatory Agency EPA,LA - Inspections EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> No Measure Needed 	<ul style="list-style-type: none"> Enforcement - EPA Evaluation methodology - DEHLG, EPA Funding - DEHLG Natural recovery time - Nature New Regulations - DEHLG Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Hill of Tara

Water Bodies in WMU	Current Status	Achieve Good Status by
Hill of Tara	Good	2009

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio-Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Introduce design and construction codes for areas of extreme groundwater vulnerability •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. •No Measure Required •Sewerage Schemes - Prioritise construction supervision for areas of extreme groundwater vulnerability 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections •No Measure Required 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Hynestown

Water Bodies in WMU	Current Status	Achieve Good Status by
Hynestown	Good	2009

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio-Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •No Measure Required •Restrict use of pesticides within groundwater Source Protection Zones 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	100%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Introduce design and construction codes for areas of extreme groundwater vulnerability •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Assess risk groundwater pollution when designing and constructing SUDS alternatives •Avoid sewer systems in Inner Source Protection Zones •Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. •No Measure Required •Sewerage Schemes - Prioritise construction supervision for areas of extreme groundwater vulnerability 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections •No Measure Required 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Kilcoole S&G

Water Bodies in WMU	Current Status	Achieve Good Status by
Kilcoole S&G	Good	2009

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •No Measure Required •Restrict use of pesticides within groundwater Source Protection Zones 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •License and distribute DAF's GIS mapping of cropping patterns to EPA and local authorities •No Measure Required •Report and audit sales and usage of pesticides by sector 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Assess risk groundwater pollution when designing and constructing SUDS alternatives •Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. •No Measure Required 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections •No Measure Required 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Kilcullen

Water Bodies in WMU	Current Status	Achieve Good Status by
Kilcullen	Good	2009

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •No Measure Required •Restrict use of pesticides within groundwater Source Protection Zones 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Introduce design and construction codes for areas of extreme groundwater vulnerability •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Assess risk groundwater pollution when designing and constructing SUDS alternatives •Avoid sewer systems in Inner Source Protection Zones •Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. •No Measure Required •Sewerage Schemes - Prioritise construction supervision for areas of extreme groundwater vulnerability 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections •No Measure Required 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

KILLYCONNY BOG (CLOGHBALLY)

Water Bodies in WMU	Current Status	Achieve Good Status by
KILLYCONNY BOG (CLOGHBALLY)	Good	2009

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Introduce design and construction codes for areas of extreme groundwater vulnerability •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. •No Measure Required •Sewerage Schemes - Prioritise construction supervision for areas of extreme groundwater vulnerability 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections •No Measure Required 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Kilrathmurry S&G

Water Bodies in WMU	Current Status	Achieve Good Status by
Kilrathmurry S&G	Good	2009

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	•No Measure Required	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. •No Measure Required 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections •No Measure Required 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Longwood

Water Bodies in WMU	Current Status	Achieve Good Status by
Longwood	Good	2009

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio-Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Introduce design and construction codes for areas of extreme groundwater vulnerability •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) EPA (Licensing) Regulations, 1994 & 2004 EPA Waste (Licensing) Regulations, 2004 Local Government (Water Pollution) Act 1 of 1977 and amendments Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) Urban Waste Water Treatment Regulations, 2001 - 2004 Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) Water Services Act 2007 	<ul style="list-style-type: none"> Courts - Enforcement DEHLG - Grant Funding (WSIP) DEHLG, EPA - Regulatory Agency EPA,LA - Inspections EPA,LA - Licensing Agency Plant owner - Funding Plant owner - Implementor 	<ul style="list-style-type: none"> Assess risk groundwater pollution when designing and constructing SUDS alternatives Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. No Measure Required Sewerage Schemes - Prioritise construction supervision for areas of extreme groundwater vulnerability 	<ul style="list-style-type: none"> Contract approval - DEHLG WSIP Funding, Owner funding Funding for pilot implementation - DEHLG Inclusion on WSIP planning list - DEHLG Licensing as necessary - EPA Operational improvements - Owner, operator Owner implementation - Owner Planning controls - LAs, An Bord Plenala Preparation of Water Services Strategic Plans - Local Authority Regulatory approvals - DEHLG, EPA WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement EPA Guidance LA - Inspections LA Bye Laws, LA Planning - Licensing Agency Owner - Implementor 	<ul style="list-style-type: none"> LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections No Measure Required 	<ul style="list-style-type: none"> Enforcement of new regulations/guidelines - Las Funding of pilot measures - DEHLG Legislation/guidance - DEHLG/EPA Local Authority Resources - DEHLG Natural recovery - Nature Owner funding - Owner Programme implementation sequencing - LAs Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> National Water Pricing Policy Framework (1998) Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) Water Supplies Act 1942 	<ul style="list-style-type: none"> Abstractor - Implementor An Bord Plenala, LA, DEMNR - Planning Courts - Enforcement DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) EPA, DEMNR - Regulatory Agency EPA,LA - Inspections EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> No Measure Needed 	<ul style="list-style-type: none"> Enforcement - EPA Evaluation methodology - DEHLG, EPA Funding - DEHLG Natural recovery time - Nature New Regulations - DEHLG Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Lough Lene

Water Bodies in WMU	Current Status	Achieve Good Status by
Lough Lene	Poor	2027

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Introduce design and construction codes for areas of extreme groundwater vulnerability •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) EPA (Licensing) Regulations, 1994 & 2004 EPA Waste (Licensing) Regulations, 2004 Local Government (Water Pollution) Act 1 of 1977 and amendments Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) Urban Waste Water Treatment Regulations, 2001 - 2004 Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) Water Services Act 2007 	<ul style="list-style-type: none"> Courts - Enforcement DEHLG - Grant Funding (WSIP) DEHLG, EPA - Regulatory Agency EPA,LA - Inspections EPA,LA - Licensing Agency Plant owner - Funding Plant owner - Implementor 	<ul style="list-style-type: none"> Assess risk groundwater pollution when designing and constructing SUDS alternatives Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. No Measure Required Sewerage Schemes - Establish dedicated groundwater monitoring systems in highest-risk settings Sewerage Schemes - Prioritise construction supervision for areas of extreme groundwater vulnerability Well construction practices/requirements 	<ul style="list-style-type: none"> Contract approval - DEHLG WSIP Funding, Owner funding Funding for pilot implementation - DEHLG Inclusion on WSIP planning list - DEHLG Licensing as necessary - EPA Operational improvements - Owner, operator Owner implementation - Owner Planning controls - LAs, An Bord Plenala Preparation of Water Services Strategic Plans - Local Authority Regulatory approvals - DEHLG, EPA WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement EPA Guidance LA - Inspections LA Bye Laws, LA Planning - Licensing Agency Owner - Implementor 	<ul style="list-style-type: none"> LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections No Measure Required 	<ul style="list-style-type: none"> Enforcement of new regulations/guidelines - Las Funding of pilot measures - DEHLG Legislation/guidance - DEHLG/EPA Local Authority Resources - DEHLG Natural recovery - Nature Owner funding - Owner Programme implementation sequencing - LAs Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> National Water Pricing Policy Framework (1998) Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) Water Supplies Act 1942 	<ul style="list-style-type: none"> Abstractor - Implementor An Bord Plenala, LA, DEMNR - Planning Courts - Enforcement DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) EPA, DEMNR - Regulatory Agency EPA,LA - Inspections EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> No Measure Needed 	<ul style="list-style-type: none"> Enforcement - EPA Evaluation methodology - DEHLG, EPA Funding - DEHLG Natural recovery time - Nature New Regulations - DEHLG Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Lusk-East

Water Bodies in WMU	Current Status	Achieve Good Status by
Lusk-East	Good	2009

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio-Chemical)	50%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •No Measure Required •Restrict use of pesticides within groundwater Source Protection Zones 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Introduce design and construction codes for areas of extreme groundwater vulnerability •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) EPA (Licensing) Regulations, 1994 & 2004 EPA Waste (Licensing) Regulations, 2004 Local Government (Water Pollution) Act 1 of 1977 and amendments Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) Urban Waste Water Treatment Regulations, 2001 - 2004 Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) Water Services Act 2007 	<ul style="list-style-type: none"> Courts - Enforcement DEHLG - Grant Funding (WSIP) DEHLG, EPA - Regulatory Agency EPA,LA - Inspections EPA,LA - Licensing Agency Plant owner - Funding Plant owner - Implementor 	<ul style="list-style-type: none"> Assess risk groundwater pollution when designing and constructing SUDS alternatives Avoid sewer systems in Inner Source Protection Zones Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. No Measure Required Sewerage Schemes - Prioritise construction supervision for areas of extreme groundwater vulnerability 	<ul style="list-style-type: none"> Contract approval - DEHLG WSIP Funding, Owner funding Funding for pilot implementation - DEHLG Inclusion on WSIP planning list - DEHLG Licensing as necessary - EPA Operational improvements - Owner, operator Owner implementation - Owner Planning controls - LAs, An Bord Plenala Preparation of Water Services Strategic Plans - Local Authority Regulatory approvals - DEHLG, EPA WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	50%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement EPA Guidance LA - Inspections LA Bye Laws, LA Planning - Licensing Agency Owner - Implementor 	<ul style="list-style-type: none"> LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections No Measure Required 	<ul style="list-style-type: none"> Enforcement of new regulations/guidelines - Las Funding of pilot measures - DEHLG Legislation/guidance - DEHLG/EPA Local Authority Resources - DEHLG Natural recovery - Nature Owner funding - Owner Programme implementation sequencing - LAs Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> National Water Pricing Policy Framework (1998) Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) Water Supplies Act 1942 	<ul style="list-style-type: none"> Abstractor - Implementor An Bord Plenala, LA, DEMNR - Planning Courts - Enforcement DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) EPA, DEMNR - Regulatory Agency EPA,LA - Inspections EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> No Measure Needed 	<ul style="list-style-type: none"> Enforcement - EPA Evaluation methodology - DEHLG, EPA Funding - DEHLG Natural recovery time - Nature New Regulations - DEHLG Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Lusk-West

Water Bodies in WMU	Current Status	Achieve Good Status by
Lusk-West	Good	2009

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio-Chemical)	60%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Restrict use of pesticides within groundwater Source Protection Zones 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Introduce design and construction codes for areas of extreme groundwater vulnerability 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 		<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 		<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) EPA (Licensing) Regulations, 1994 & 2004 EPA Waste (Licensing) Regulations, 2004 Local Government (Water Pollution) Act 1 of 1977 and amendments Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) Urban Waste Water Treatment Regulations, 2001 - 2004 Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) Water Services Act 2007 	<ul style="list-style-type: none"> Courts - Enforcement DEHLG - Grant Funding (WSIP) DEHLG, EPA - Regulatory Agency EPA,LA - Inspections EPA,LA - Licensing Agency Plant owner - Funding Plant owner - Implementor 	<ul style="list-style-type: none"> Assess risk groundwater pollution when designing and constructing SUDS alternatives Avoid sewer systems in Inner Source Protection Zones Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. Sewerage Schemes - Prioritise construction supervision for areas of extreme groundwater vulnerability 	<ul style="list-style-type: none"> Contract approval - DEHLG WSIP Funding, Owner funding Funding for pilot implementation - DEHLG Inclusion on WSIP planning list - DEHLG Licensing as necessary - EPA Operational improvements - Owner, operator Owner implementation - Owner Planning controls - LAs, An Bord Plenala Preparation of Water Services Strategic Plans - Local Authority Regulatory approvals - DEHLG, EPA WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	40%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement EPA Guidance LA - Inspections LA Bye Laws, LA Planning - Licensing Agency Owner - Implementor 	<ul style="list-style-type: none"> LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections 	<ul style="list-style-type: none"> Enforcement of new regulations/guidelines - Las Funding of pilot measures - DEHLG Legislation/guidance - DEHLG/EPA Local Authority Resources - DEHLG Natural recovery - Nature Owner funding - Owner Programme implementation sequencing - LAs Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> National Water Pricing Policy Framework (1998) Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) Water Supplies Act 1942 	<ul style="list-style-type: none"> Abstractor - Implementor An Bord Plenala, LA, DEMNR - Planning Courts - Enforcement DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) EPA, DEMNR - Regulatory Agency EPA,LA - Inspections EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> No Measure Needed 	<ul style="list-style-type: none"> Enforcement - EPA Evaluation methodology - DEHLG, EPA Funding - DEHLG Natural recovery time - Nature New Regulations - DEHLG Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Lusk-Bog of the Ring

Water Bodies in WMU	Current Status	Achieve Good Status by
Lusk-Bog of the Ring	Poor	2021

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	60%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Restrict use of pesticides within groundwater Source Protection Zones 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Introduce design and construction codes for areas of extreme groundwater vulnerability 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 		<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 		<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Assess risk groundwater pollution when designing and constructing SUDS alternatives •Avoid sewer systems in Inner Source Protection Zones •Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. •Sewerage Schemes - Prioritise construction supervision for areas of extreme groundwater vulnerability 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	40%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	100%	<ul style="list-style-type: none"> •Water Supplies Act 1942 •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •Licensing system for groundwater abstractions 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

MOUNT HEVEY BOG

Water Bodies in WMU	Current Status	Achieve Good Status by
MOUNT HEVEY BOG	Good	2009

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. •No Measure Required 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections •No Measure Required 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Moynalty

Water Bodies in WMU	Current Status	Achieve Good Status by
Moynalty	Good	2009

Wastewater Treatment Plants

None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	40%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 		<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Water Quality Dangerous Substances Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Introduce design and construction codes for areas of extreme groundwater vulnerability 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 		<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 		<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Assess risk groundwater pollution when designing and constructing SUDS alternatives •Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. •Sewerage Schemes - Prioritise construction supervision for areas of extreme groundwater vulnerability 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	40%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Moynalvy

Water Bodies in WMU	Current Status	Achieve Good Status by
Moynalvy	Good	2009

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio-Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Introduce design and construction codes for areas of extreme groundwater vulnerability •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
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Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections •No Measure Required 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Naas Bedrock Nth Urban

Water Bodies in WMU	Current Status	Achieve Good Status by
Naas Bedrock Nth Urban	Good	2009

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	20%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
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Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	40%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Assess risk groundwater pollution when designing and constructing SUDS alternatives •Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. •No Measure Required 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	20%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections •No Measure Required 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
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Eastern River Basin Management Plan – Programme of Measures Summary Report

Naas Bedrock Sth Urban

Water Bodies in WMU	Current Status	Achieve Good Status by
Naas Bedrock Sth Urban	Good	2009

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	100%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Introduce design and construction codes for areas of extreme groundwater vulnerability •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) EPA (Licensing) Regulations, 1994 & 2004 EPA Waste (Licensing) Regulations, 2004 Local Government (Water Pollution) Act 1 of 1977 and amendments Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) Urban Waste Water Treatment Regulations, 2001 - 2004 Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) Water Services Act 2007 	<ul style="list-style-type: none"> Courts - Enforcement DEHLG - Grant Funding (WSIP) DEHLG, EPA - Regulatory Agency EPA, LA - Inspections EPA, LA - Licensing Agency Plant owner - Funding Plant owner - Implementor 	<ul style="list-style-type: none"> Assess risk groundwater pollution when designing and constructing SUDS alternatives Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. No Measure Required Sewerage Schemes - Prioritise construction supervision for areas of extreme groundwater vulnerability 	<ul style="list-style-type: none"> Contract approval - DEHLG WSIP Funding, Owner funding Funding for pilot implementation - DEHLG Inclusion on WSIP planning list - DEHLG Licensing as necessary - EPA Operational improvements - Owner, operator Owner implementation - Owner Planning controls - LAs, An Bord Plenala Preparation of Water Services Strategic Plans - Local Authority Regulatory approvals - DEHLG, EPA WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement EPA Guidance LA - Inspections LA Bye Laws, LA Planning - Licensing Agency Owner - Implementor 	<ul style="list-style-type: none"> LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections No Measure Required 	<ul style="list-style-type: none"> Enforcement of new regulations/guidelines - Las Funding of pilot measures - DEHLG Legislation/guidance - DEHLG/EPA Local Authority Resources - DEHLG Natural recovery - Nature Owner funding - Owner Programme implementation sequencing - LAs Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> National Water Pricing Policy Framework (1998) Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) Water Supplies Act 1942 	<ul style="list-style-type: none"> Abstractor - Implementor An Bord Plenala, LA, DEMNR - Planning Courts - Enforcement DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) EPA, DEMNR - Regulatory Agency EPA, LA - Inspections EPA, LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> No Measure Needed 	<ul style="list-style-type: none"> Enforcement - EPA Evaluation methodology - DEHLG, EPA Funding - DEHLG Natural recovery time - Nature New Regulations - DEHLG Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Naas_CL

Water Bodies in WMU	Current Status	Achieve Good Status by
Naas_CL	Good	2009

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 		<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	100%	<ul style="list-style-type: none"> •EPA (Licensing) Regulations, 1994 & 2004 •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 		<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 		<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 		<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> •EPA (Licensing) Regulations, 1994 & 2004 •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Assess risk groundwater pollution when designing and constructing SUDS alternatives •Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Naas_SG Urban

Water Bodies in WMU	Current Status	Achieve Good Status by
Naas_SG Urban	Good	2009

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	100%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Assess risk groundwater pollution when designing and constructing SUDS alternatives •Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. •No Measure Required 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections •No Measure Required 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Naas

Water Bodies in WMU	Current Status	Achieve Good Status by
Naas	Good	2009

Wastewater Treatment Plants

None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	40%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 		<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Water Quality Dangerous Substances Regulations, 2001 •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Introduce design and construction codes for areas of extreme groundwater vulnerability 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 		<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 		<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Assess risk groundwater pollution when designing and constructing SUDS alternatives •Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. •Sewerage Schemes - Prioritise construction supervision for areas of extreme groundwater vulnerability 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	40%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Navan Nth Urban

Water Bodies in WMU	Current Status	Achieve Good Status by
Navan Nth Urban	Good	2009

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	40%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Introduce design and construction codes for areas of extreme groundwater vulnerability •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	60%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Assess risk groundwater pollution when designing and constructing SUDS alternatives •Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. •No Measure Required •Sewerage Schemes - Prioritise construction supervision for areas of extreme groundwater vulnerability 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections •No Measure Required 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Navan Orebody 2

Water Bodies in WMU	Current Status	Achieve Good Status by
Navan Orebody 2	Good	2009

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Introduce design and construction codes for areas of extreme groundwater vulnerability •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Assess risk groundwater pollution when designing and constructing SUDS alternatives •Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. •No Measure Required •Sewerage Schemes - Prioritise construction supervision for areas of extreme groundwater vulnerability 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections •No Measure Required 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 		<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Navan Orebody

Water Bodies in WMU	Current Status	Achieve Good Status by
Navan Orebody	Good	2009

Wastewater Treatment Plants

None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	50%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 		<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Introduce design and construction codes for areas of extreme groundwater vulnerability 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 		<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 		<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Assess risk groundwater pollution when designing and constructing SUDS alternatives •Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. •Sewerage Schemes - Prioritise construction supervision for areas of extreme groundwater vulnerability 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	50%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Navan Sth Urban

Water Bodies in WMU	Current Status	Achieve Good Status by
Navan Sth Urban	Good	2009

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	50%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Introduce design and construction codes for areas of extreme groundwater vulnerability •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
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Wastewater/ Unsewered (Physio- Chemical)	50%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections •No Measure Required 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Navan Tailings

Water Bodies in WMU	Current Status	Achieve Good Status by
Navan Tailings	Good	2009

Wastewater Treatment Plants

None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

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Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
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Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections •No Measure Required 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
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Eastern River Basin Management Plan – Programme of Measures Summary Report

Newbridge Urban

Water Bodies in WMU	Current Status	Achieve Good Status by
Newbridge Urban	Good	2009

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	20%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Assess risk groundwater pollution when designing and constructing SUDS alternatives •Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. •No Measure Required 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	60%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections •No Measure Required 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

NEWTOWN LOUGH

Water Bodies in WMU	Current Status	Achieve Good Status by
NEWTOWN LOUGH	Good	2009

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio-Chemical)	50%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 		<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 		<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 		<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 		<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	50%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - LAs •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Old Kilcullen S&G

Water Bodies in WMU	Current Status	Achieve Good Status by
Old Kilcullen S&G	Good	2009

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio-Chemical)	60%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 		<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 		<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 		<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 		<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	40%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

RAHEENMORE BOG

Water Bodies in WMU	Current Status	Achieve Good Status by
RAHEENMORE BOG	Good	2009

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. •No Measure Required 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections •No Measure Required 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Realtage

Water Bodies in WMU	Current Status	Achieve Good Status by
Realtage	Good	2009

Wastewater Treatment Plants

None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Introduce design and construction codes for areas of extreme groundwater vulnerability •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) EPA (Licensing) Regulations, 1994 & 2004 EPA Waste (Licensing) Regulations, 2004 Local Government (Water Pollution) Act 1 of 1977 and amendments Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) Urban Waste Water Treatment Regulations, 2001 - 2004 Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) Water Services Act 2007 	<ul style="list-style-type: none"> Courts - Enforcement DEHLG - Grant Funding (WSIP) DEHLG, EPA - Regulatory Agency EPA,LA - Inspections EPA,LA - Licensing Agency Plant owner - Funding Plant owner - Implementor 	<ul style="list-style-type: none"> Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. No Measure Required Sewerage Schemes - Prioritise construction supervision for areas of extreme groundwater vulnerability 	<ul style="list-style-type: none"> Contract approval - DEHLG WSIP Funding, Owner funding Funding for pilot implementation - DEHLG Inclusion on WSIP planning list - DEHLG Licensing as necessary - EPA Operational improvements - Owner, operator Owner implementation - Owner Planning controls - LAs, An Bord Plenala Preparation of Water Services Strategic Plans - Local Authority Regulatory approvals - DEHLG, EPA WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement EPA Guidance LA - Inspections LA Bye Laws, LA Planning - Licensing Agency Owner - Implementor 	<ul style="list-style-type: none"> LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections No Measure Required 	<ul style="list-style-type: none"> Enforcement of new regulations/guidelines - Las Funding of pilot measures - DEHLG Legislation/guidance - DEHLG/EPA Local Authority Resources - DEHLG Natural recovery - Nature Owner funding - Owner Programme implementation sequencing - LAs Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> National Water Pricing Policy Framework (1998) Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) Water Supplies Act 1942 	<ul style="list-style-type: none"> Abstractor - Implementor An Bord Plenala, LA, DEMNR - Planning Courts - Enforcement DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) EPA, DEMNR - Regulatory Agency EPA,LA - Inspections EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> No Measure Needed 	<ul style="list-style-type: none"> Enforcement - EPA Evaluation methodology - DEHLG, EPA Funding - DEHLG Natural recovery time - Nature New Regulations - DEHLG Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Rush Urban

Water Bodies in WMU	Current Status	Achieve Good Status by
Rush Urban	Good	2009

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	40%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Assess risk groundwater pollution when designing and constructing SUDS alternatives •Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. •No Measure Required 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	60%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections •No Measure Required 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Rye Water Valley GWDTE

Water Bodies in WMU	Current Status	Achieve Good Status by
Rye Water Valley GWDTE	Good	2009

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	40%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 		<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EPA (Licensing) Regulations, 1994 & 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Introduce design and construction codes for areas of extreme groundwater vulnerability 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	20%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 		<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 		<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> •EPA (Licensing) Regulations, 1994 & 2004 •Water Services Act 2007 •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Assess risk groundwater pollution when designing and constructing SUDS alternatives •Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. •Sewerage Schemes - Prioritise construction supervision for areas of extreme groundwater vulnerability 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	30%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Skerries Nth Urban

Water Bodies in WMU	Current Status	Achieve Good Status by
Skerries Nth Urban	Good	2009

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	40%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Assess risk groundwater pollution when designing and constructing SUDS alternatives •Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. •No Measure Required 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	60%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections •No Measure Required 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Skerries Sth Urban

Water Bodies in WMU	Current Status	Achieve Good Status by
Skerries Sth Urban	Good	2009

Wastewater Treatment Plants

None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Cross Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	40%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Introduce design and construction codes for areas of extreme groundwater vulnerability •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	60%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) EPA (Licensing) Regulations, 1994 & 2004 EPA Waste (Licensing) Regulations, 2004 Local Government (Water Pollution) Act 1 of 1977 and amendments Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) Urban Waste Water Treatment Regulations, 2001 - 2004 Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) Water Services Act 2007 	<ul style="list-style-type: none"> Courts - Enforcement DEHLG - Grant Funding (WSIP) DEHLG, EPA - Regulatory Agency EPA,LA - Inspections EPA,LA - Licensing Agency Plant owner - Funding Plant owner - Implementor 	<ul style="list-style-type: none"> Assess risk groundwater pollution when designing and constructing SUDS alternatives Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. No Measure Required Sewerage Schemes - Prioritise construction supervision for areas of extreme groundwater vulnerability 	<ul style="list-style-type: none"> Contract approval - DEHLG WSIP Funding, Owner funding Funding for pilot implementation - DEHLG Inclusion on WSIP planning list - DEHLG Licensing as necessary - EPA Operational improvements - Owner, operator Owner implementation - Owner Planning controls - LAs, An Bord Plenala Preparation of Water Services Strategic Plans - Local Authority Regulatory approvals - DEHLG, EPA WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> Bathing Water Quality Regulations (S.I. 79 of 2008) EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) Planning and Development Regulations 2001 - 2007 Planning Development Acts 2000 - 2006 Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> Courts - Enforcement EPA Guidance LA - Inspections LA Bye Laws, LA Planning - Licensing Agency Owner - Implementor 	<ul style="list-style-type: none"> LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections No Measure Required 	<ul style="list-style-type: none"> Enforcement of new regulations/guidelines - Las Funding of pilot measures - DEHLG Legislation/guidance - DEHLG/EPA Local Authority Resources - DEHLG Natural recovery - Nature Owner funding - Owner Programme implementation sequencing - LAs Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> National Water Pricing Policy Framework (1998) Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) Water Supplies Act 1942 	<ul style="list-style-type: none"> Abstractor - Implementor An Bord Plenala, LA, DEMNR - Planning Courts - Enforcement DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) EPA, DEMNR - Regulatory Agency EPA,LA - Inspections EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> No Measure Needed 	<ul style="list-style-type: none"> Enforcement - EPA Evaluation methodology - DEHLG, EPA Funding - DEHLG Natural recovery time - Nature New Regulations - DEHLG Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Swords Urban

Water Bodies in WMU	Current Status	Achieve Good Status by
Swords Urban	Good	2009

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Introduce design and construction codes for areas of extreme groundwater vulnerability •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Assess risk groundwater pollution when designing and constructing SUDS alternatives •Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. •No Measure Required •Sewerage Schemes - Prioritise construction supervision for areas of extreme groundwater vulnerability 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections •No Measure Required 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Swords

Water Bodies in WMU	Current Status	Achieve Good Status by
Swords	Good	2009

Wastewater Treatment Plants

None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Introduce design and construction codes for areas of extreme groundwater vulnerability •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
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Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections •No Measure Required 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Swords_CL

Water Bodies in WMU	Current Status	Achieve Good Status by
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Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 		<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	100%	<ul style="list-style-type: none"> •EPA (Licensing) Regulations, 1994 & 2004 •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 		<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 		<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 		<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
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Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
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Eastern River Basin Management Plan – Programme of Measures Summary Report

Tinnakilly_CL

Water Bodies in WMU	Current Status	Achieve Good Status by
Tinnakilly_CL	Good	2009

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 		<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EPA (Licensing) Regulations, 1994 & 2004 •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Introduce design and construction codes for areas of extreme groundwater vulnerability 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 		<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 		<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> •EPA (Licensing) Regulations, 1994 & 2004 •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Assess risk groundwater pollution when designing and constructing SUDS alternatives •Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. •Sewerage Schemes - Prioritise construction supervision for areas of extreme groundwater vulnerability 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Trim Urban

Water Bodies in WMU	Current Status	Achieve Good Status by
Trim Urban	Good	2009

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio-Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	40%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Introduce design and construction codes for areas of extreme groundwater vulnerability •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	60%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Assess risk groundwater pollution when designing and constructing SUDS alternatives •Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. •No Measure Required •Sewerage Schemes - Prioritise construction supervision for areas of extreme groundwater vulnerability 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections •No Measure Required 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Trim

Water Bodies in WMU	Current Status	Achieve Good Status by
Trim	Good	2009

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	50%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Restrict use of pesticides within groundwater Source Protection Zones 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	10%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EPA (Licensing) Regulations, 1994 & 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Water Quality Dangerous Substances Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Introduce design and construction codes for areas of extreme groundwater vulnerability •License and distribute DAF's GIS mapping of cropping patterns to EPA and local authorities •Report and audit sales and usage of pesticides by sector 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 		<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 		<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Inspection - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	10%	<ul style="list-style-type: none"> •EPA (Licensing) Regulations, 1994 & 2004 •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Assess risk groundwater pollution when designing and constructing SUDS alternatives •Avoid sewer systems in Inner Source Protection Zones •Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. •Sewerage Schemes - Prioritise construction supervision for areas of extreme groundwater vulnerability 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	30%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Walkinstown_CL

Water Bodies in WMU	Current Status	Achieve Good Status by
Walkinstown_CL	Good	2009

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EPA (Licensing) Regulations, 1994 & 2004 •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	100%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> •EPA (Licensing) Regulations, 1994 & 2004 •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Assess risk groundwater pollution when designing and constructing SUDS alternatives •Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. •No Measure Required 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections •No Measure Required 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Wicklow Central (Avoca Mine)

Water Bodies in WMU	Current Status	Achieve Good Status by
Wicklow Central (Avoca Mine)	Poor	2027

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Protection of Groundwater Regulations (S.I. 41 of 1999) •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •Protection of Groundwater Regulations (S.I. 41 of 1999) •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Introduce design and construction codes for areas of extreme groundwater vulnerability 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •Protection of Groundwater Regulations (S.I. 41 of 1999) •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •Protection of Groundwater Regulations (S.I. 41 of 1999) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •Further investigation/monitoring required •Mine discharge to be suitably treated 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Protection of Groundwater Regulations (S.I. 41 of 1999) •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Assess risk groundwater pollution when designing and constructing SUDS alternatives •Avoid sewer systems in Inner Source Protection Zones •Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. •Further investigation/monitoring required •Sewerage Schemes - Prioritise construction supervision for areas of extreme groundwater vulnerability 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Protection of Groundwater Regulations (S.I. 41 of 1999) •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •Further investigation/monitoring required •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Wicklow East

Water Bodies in WMU	Current Status	Achieve Good Status by
Wicklow East	Good	2009

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio-Chemical)	50%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Introduce design and construction codes for areas of extreme groundwater vulnerability •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Assess risk groundwater pollution when designing and constructing SUDS alternatives •Avoid sewer systems in Inner Source Protection Zones •Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. •No Measure Required •Sewerage Schemes - Prioritise construction supervision for areas of extreme groundwater vulnerability 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	50%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections •No Measure Required 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> •Water Supplies Act 1942 •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Wicklow South

Water Bodies in WMU	Current Status	Achieve Good Status by
Wicklow South	Good	2009

Wastewater Treatment Plants
None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Introduce design and construction codes for areas of extreme groundwater vulnerability •No Measure Required 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 	<ul style="list-style-type: none"> •No Measure Required 	<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA,LA - Inspections •EPA,LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Assess risk groundwater pollution when designing and constructing SUDS alternatives •Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. •No Measure Required •Sewerage Schemes - Prioritise construction supervision for areas of extreme groundwater vulnerability 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio- Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections •No Measure Required 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA,LA - Inspections •EPA,LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

Eastern River Basin Management Plan – Programme of Measures Summary Report

Wilkinstown

Water Bodies in WMU	Current Status	Achieve Good Status by
Wilkinstown	Good	2009

Wastewater Treatment Plants

None.

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Agriculture (Physio- Chemical)	60%	<ul style="list-style-type: none"> •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF - Grant Funding •DAFF - Regulatory Agency •EPA - Licensing Agency •Land Owner - Implementor •Local Authority - Inspections •Teagasc, Farm Development Service - Technical Advisor 		<ul style="list-style-type: none"> •Completion and Publication of pilot catchment studies - DAFF •EU Regulations and Cross compliance - DAFF •Extension of REPS Scheme - DAFF •Funding / CAP Coss Compliance - DAFF •Funding for investigation of pilot measures - DEHLG/DAFF •Inspection Resources - Local Authority •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Dangerous Substances (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments •EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001 •EC (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. 101 of 2009) •EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments •EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC) •Framework for Major Emergency Management, Office of Emergency Planning, 2006 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Quality Dangerous Substances Regulations, 2001 •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DAFF, EPA, DEMNR - Regulatory Agency •EPA - Inspections •EPA - Licensing Agency •EPA, Industry bodies - Technical Advisors •LAs, An Bord Pleanala - Planning •Owner - Implementor 	<ul style="list-style-type: none"> •Introduce design and construction codes for areas of extreme groundwater vulnerability 	<ul style="list-style-type: none"> •Implementation of REACH regulations - EPA •Natural recovery time - Nature •Product restrictions - PCS •Public Awareness - EPA, PCS •Sector leadership - PCS •Sequencing of implementation - All listed Agencies
Forestry (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007 •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Forestry Act 1946 and 1988 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Coillte, DAFF - Technical Advisors •Courts - Enforcement •DAFF - Grant Funding •DAFF - Inspections •DAFF - Licensing Agency •DAFF, EPA - Regulatory Agency •Owner - Implementor 		<ul style="list-style-type: none"> •Adoption of new regulations - DAFF, EPA •Funding - DAFF, EU •Implementation of Forestry and Water Quality Guidelines - DAFF, owner •Natural growing cycle - Nature •Natural recovery time - Nature •Public Awareness - DAFF •Sequencing of implementation - All listed Agencies
Landfills, etc. (Physio-Chemical)	0%	<ul style="list-style-type: none"> •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA Waste (Licensing) Regulations, 2004 •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding •EPA, DEHLG, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •LA, An Bord Pleanala - Planning •LA, owner - Implementor •Owner - Funder 		<ul style="list-style-type: none"> •Allocation of Bond Funds - Owner •Compliance with after care programmes - Owner •Funding - DEHLG •Funding - owner, funding agencies •Implementation of after-care programmes - Owner •Inspection Resources - Local Authority •Natural recovery time - Nature •Programme of remediation - Owner •Sequencing of implementation - All listed Agencies

Pressures/ Source Code	Pressure Impact	Basic Measures	Lead Agencies	Supporting Key Actions	Critical Dependencies
Wastewater / Industrial Discharges (Physio-Chemical)	0%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •Dumping at Sea Act 1996 - 2004 : Permit required for Dumping at Sea •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Port Reception Facilities for Ship Generated Waste and Cargo Residues) Regulations (S.I. 117 of 2003) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •EPA (Licensing) Regulations, 1994 & 2004 •EPA Waste (Licensing) Regulations, 2004 •Local Government (Water Pollution) Act 1 of 1977 and amendments •Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) •Urban Waste Water Treatment Regulations, 2001 - 2004 •Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007) •Water Services Act 2007 	<ul style="list-style-type: none"> •Courts - Enforcement •DEHLG - Grant Funding (WSIP) •DEHLG, EPA - Regulatory Agency •EPA, LA - Inspections •EPA, LA - Licensing Agency •Plant owner - Funding •Plant owner - Implementor 	<ul style="list-style-type: none"> •Assess risk groundwater pollution when designing and constructing SUDS alternatives •Carry out groundwater vulnerability mapping during geotechnical investigations of new infrastructure, including sewer pipeline routes; submit information to local authorities and GSI. •Sewerage Schemes - Prioritise construction supervision for areas of extreme groundwater vulnerability 	<ul style="list-style-type: none"> •Contract approval - DEHLG WSIP Funding, Owner funding •Funding for pilot implementation - DEHLG •Inclusion on WSIP planning list - DEHLG •Licensing as necessary - EPA •Operational improvements - Owner, operator •Owner implementation - Owner •Planning controls - LAs, An Bord Plenala •Preparation of Water Services Strategic Plans - Local Authority •Regulatory approvals - DEHLG, EPA •WSIP implementation programming - DEHLG
Wastewater/ Unsewered (Physio-Chemical)	40%	<ul style="list-style-type: none"> •Bathing Water Quality Regulations (S.I. 79 of 2008) •EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007) •EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988) •Planning and Development Regulations 2001 - 2007 •Planning Development Acts 2000 - 2006 •Protection of Groundwater Regulations (S.I. 41 of 1999) 	<ul style="list-style-type: none"> •Courts - Enforcement •EPA Guidance •LA - Inspections •LA Bye Laws, LA Planning - Licensing Agency •Owner - Implementor 	<ul style="list-style-type: none"> •LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections 	<ul style="list-style-type: none"> •Enforcement of new regulations/guidelines - Las •Funding of pilot measures - DEHLG •Legislation/guidance - DEHLG/EPA •Local Authority Resources - DEHLG •Natural recovery - Nature •Owner funding - Owner •Programme implementation sequencing - LAs •Public Awareness - DEHLG/EPA
Abstractions (Hydrological)	0%	<ul style="list-style-type: none"> •National Water Pricing Policy Framework (1998) •Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989) •Water Supplies Act 1942 	<ul style="list-style-type: none"> •Abstractor - Implementor •An Bord Plenala, LA, DEMNR - Planning •Courts - Enforcement •DEHLG, DEMNR - Grant Funding (WSIP, Group Schemes) •EPA, DEMNR - Regulatory Agency •EPA, LA - Inspections •EPA, LA, DEMNR - Licensing Agency 	<ul style="list-style-type: none"> •No Measure Needed 	<ul style="list-style-type: none"> •Enforcement - EPA •Evaluation methodology - DEHLG, EPA •Funding - DEHLG •Natural recovery time - Nature •New Regulations - DEHLG •Sequencing of implementation - All listed Agencies

5. Costs of Measures

The programmes of measures presented in this document are judged to be adequate to achieve the objectives of the WFD. The estimates of their cost have been developed for each individual measure for each sub-catchment or water body and these are available in the river basin management system; a summary is provided in Section 10 of the Plan and in more detail below.

The costs comprise the following elements (at 2008 prices):

- Capital costs of all treatment works (new/extensions/upgrades) that are required;
- Capital costs for improvements to all wastewater collection systems;
- Labour costs for all organisations from 2010 – 2015; and
- Capital costs for all agricultural improvements.

It should be emphasized that costing of this type of work and at this scale has never been attempted before in Ireland and so the costs should be viewed as approximate. All of the assumptions that have been used in the process of measures selection and evaluation have been recorded in the RBMS and are available there for review. As more accurate information becomes available through pilot studies and other sources, then this can readily be incorporated, and the cost calculations revised accordingly. In particular, the prioritization of measures and resultant spreading of investment over the three planning cycles will have a major impact on budget planning.

This is a valuable first step in understanding the size of investment in financial and staff resources that will be required and allow the appropriate agencies to consider how these resources can be made available.

The Local Authorities will have a key role in implementing the programmes of measures; the graphs below present the target dates for good status and levels of expenditure in each Local Authority area:

- target dates for good status (Figure 5.1);
- relative costs for each type of water body (Figure 5.2); and
- costs for each pressure source (Figure 5.3). (Note that the scales vary.)

There are significant differences between the measures that are defined for each of the Local Authorities, reflecting the nature of their lands in terms of population density, land use and their locations in the catchment. In broad terms the Greater Dublin authorities have high costs in infrastructure related to wastewater, whilst in the rural areas agricultural measures become more important. In Wicklow the costs of mine remediation can be seen to be significant.

It should be noted that the total costs for each Local Authority are significantly affected by their land area within the Eastern River Basin District. Those authorities with lands in other river basin districts will also have equivalent measures defined by those other districts which are not included here.

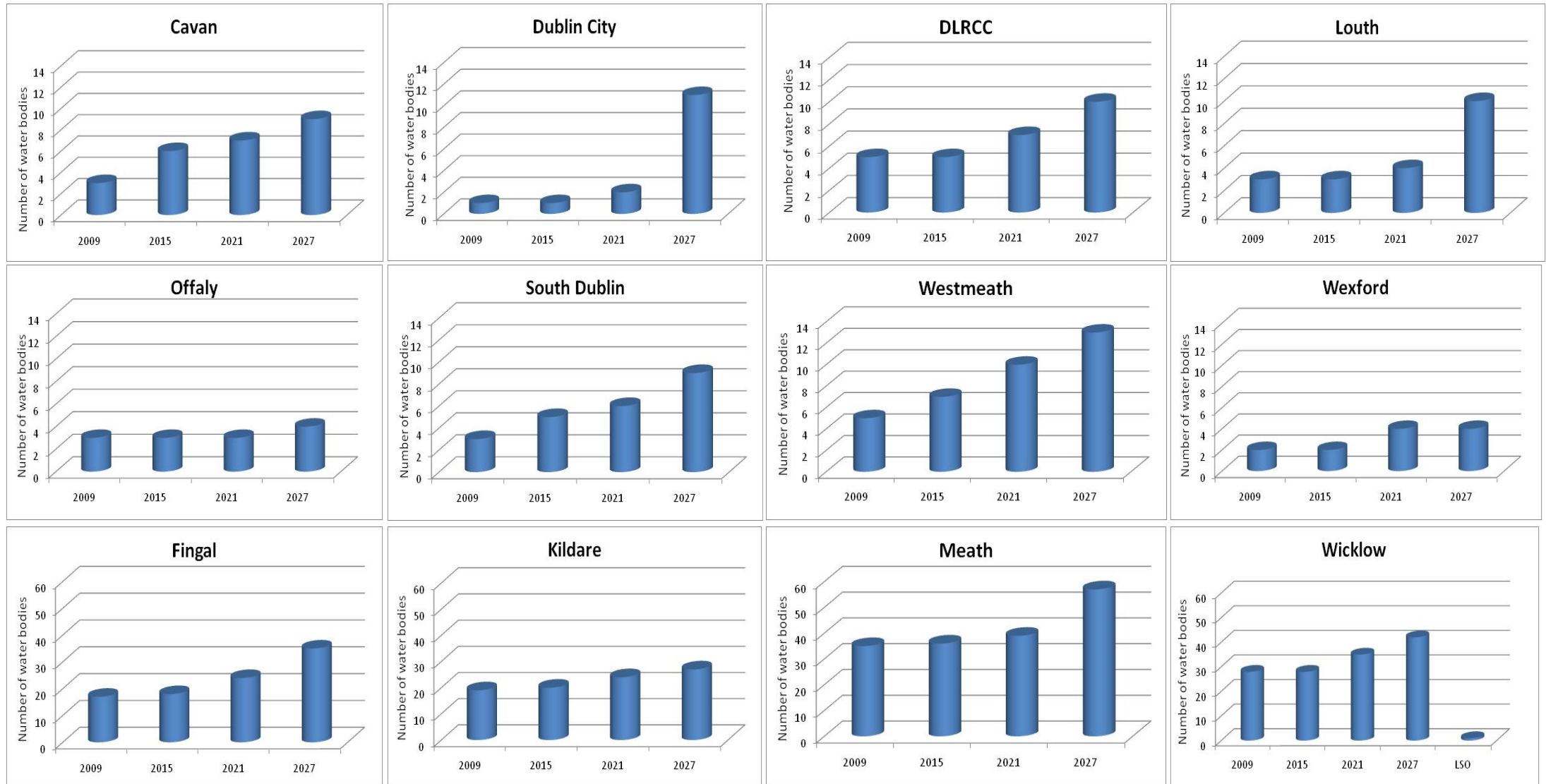


Figure 5.1: Target Dates for Good Status

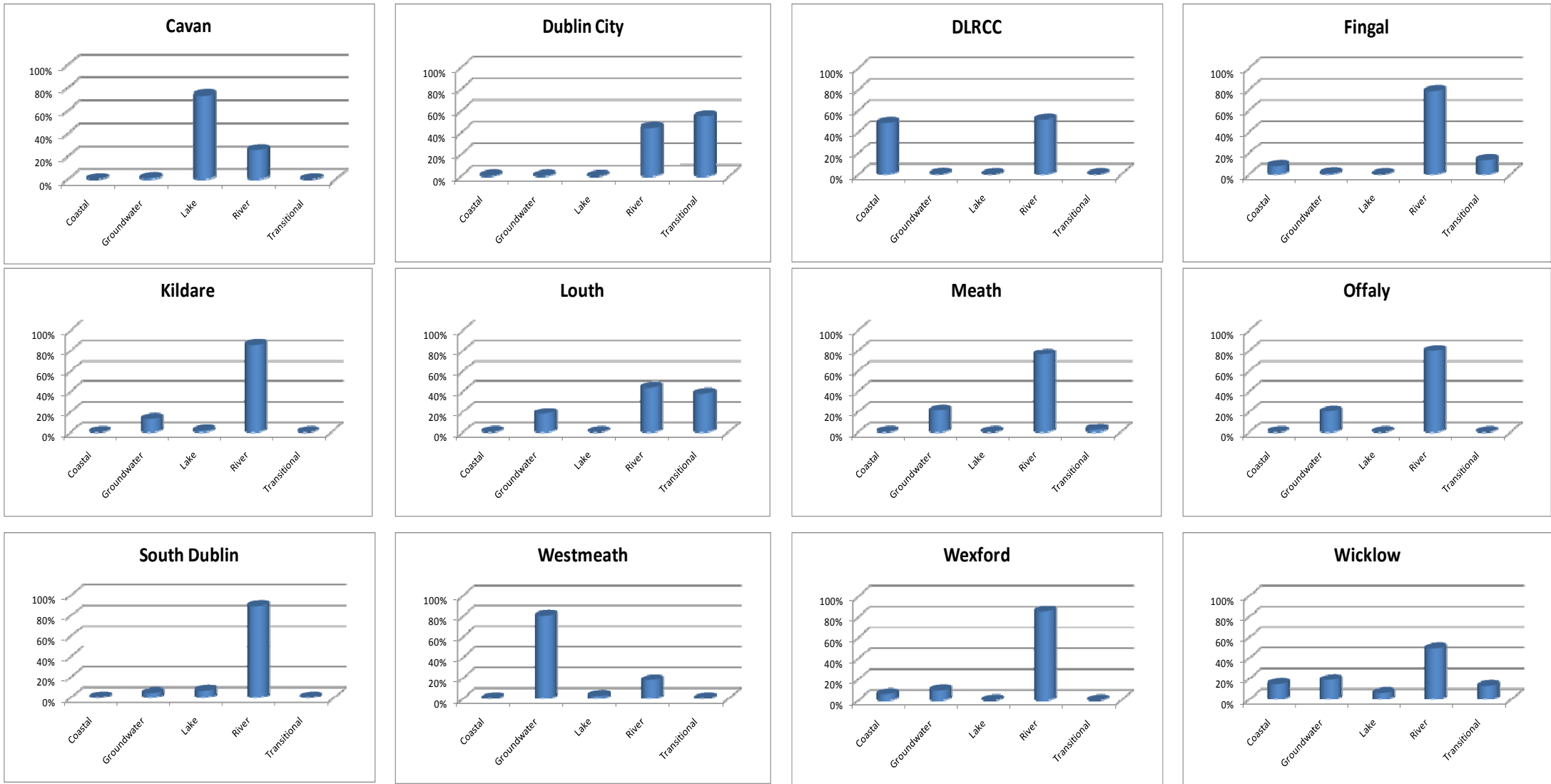


Figure 5.2: Relative Costs for each Type of Water Body

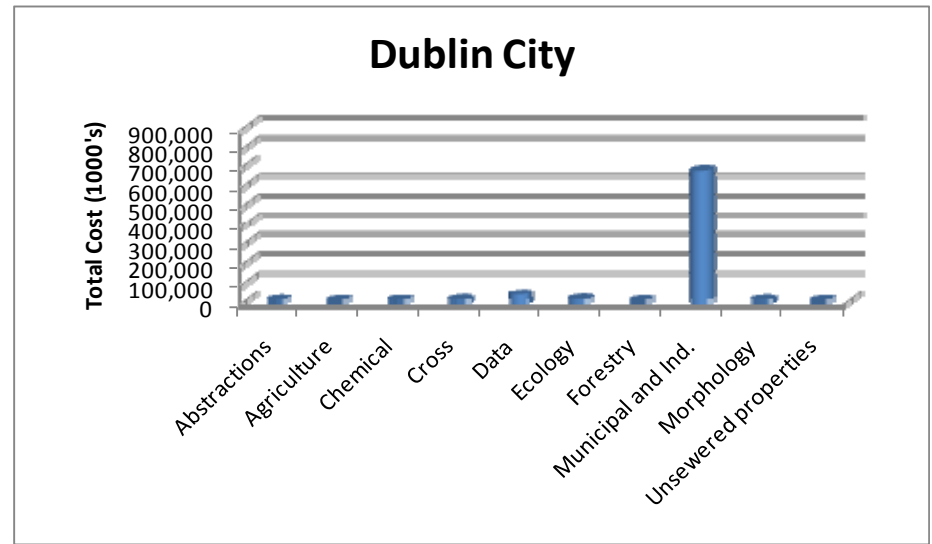
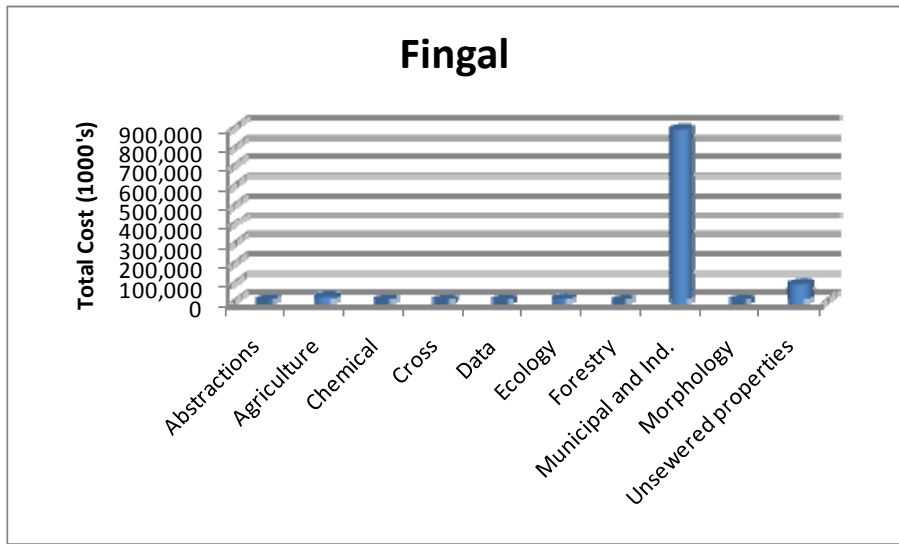


Figure 5.3: Costs for each Pressure Source

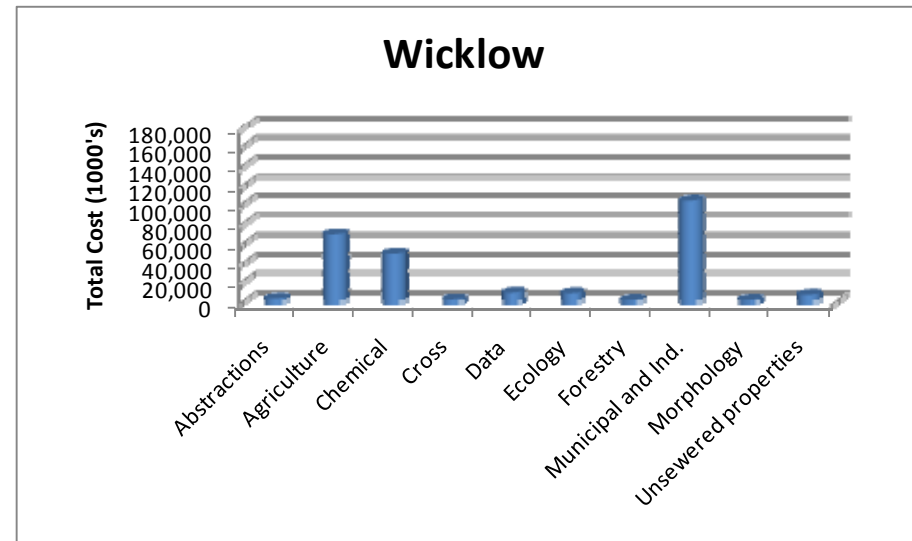
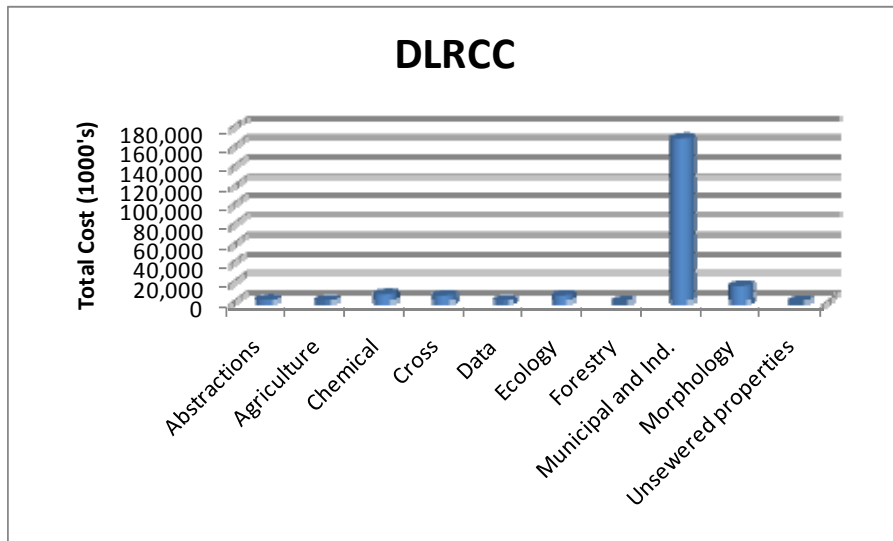
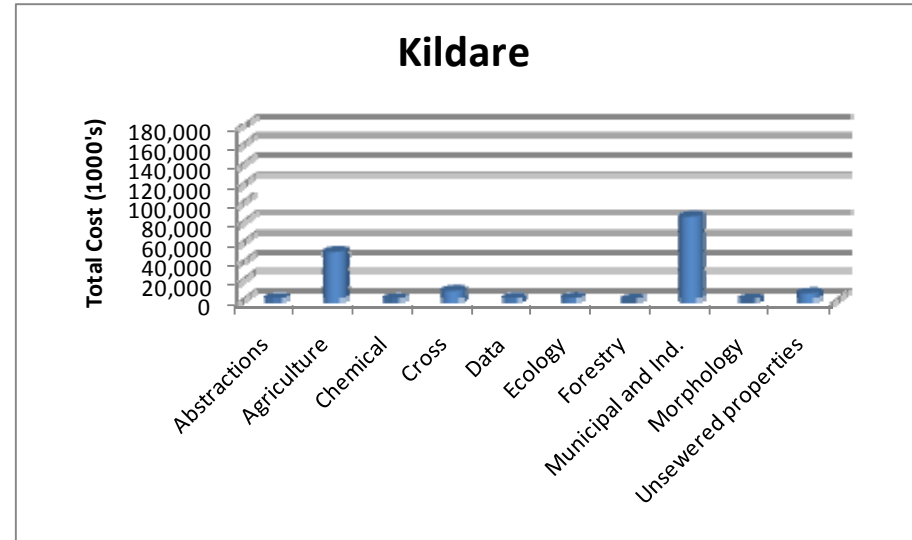
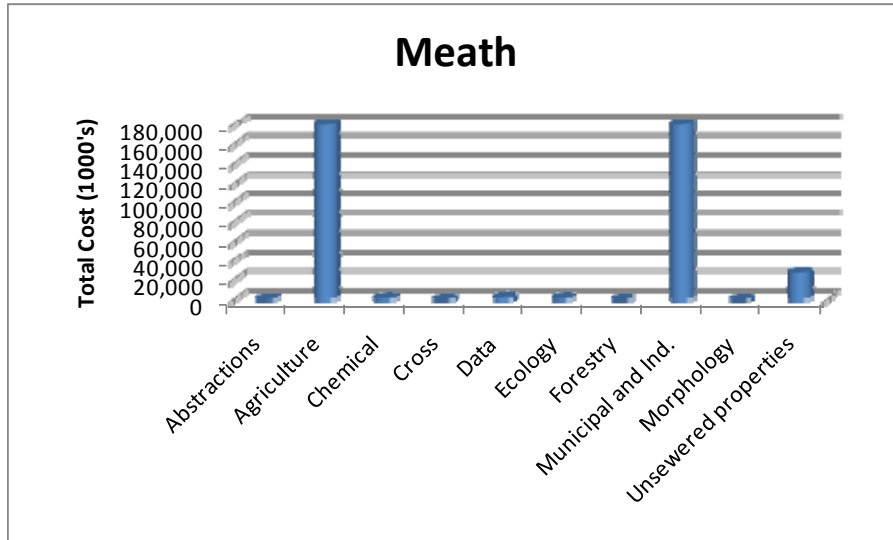


Figure 5.3: Costs for each Pressure Source (cont.)

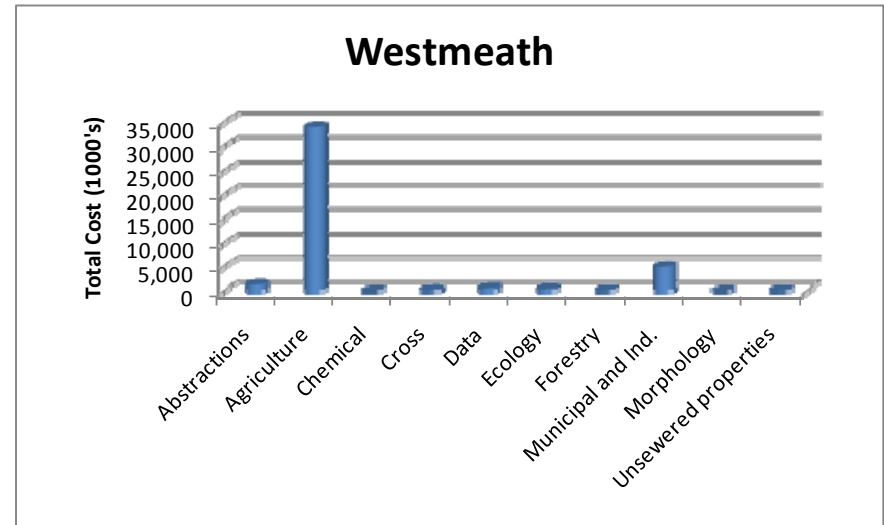
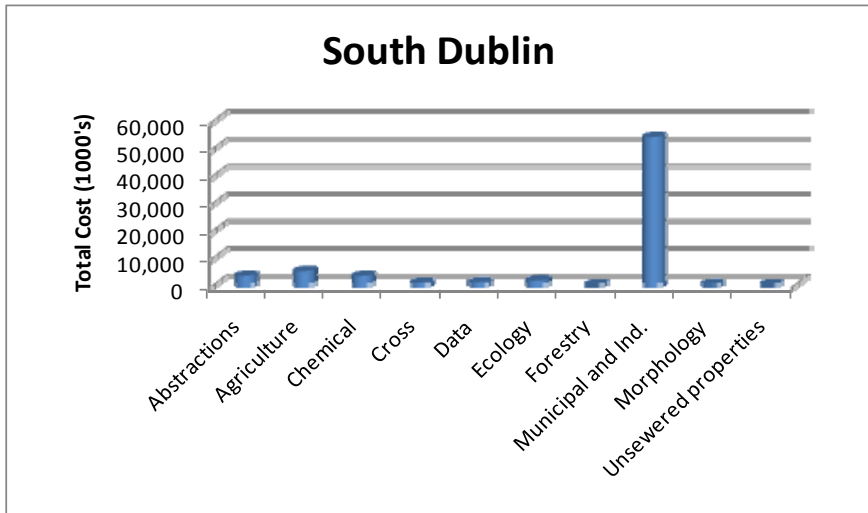


Figure 5.3: Costs for each Pressure Source

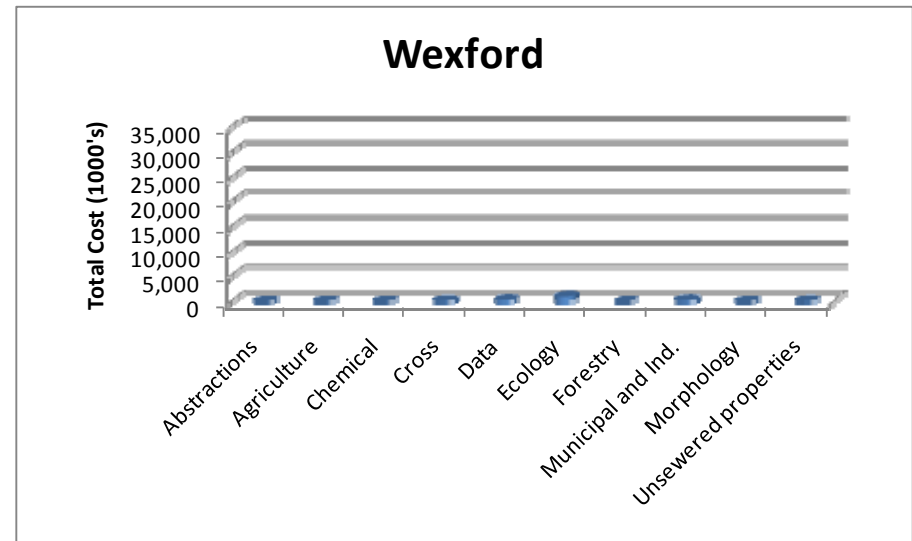
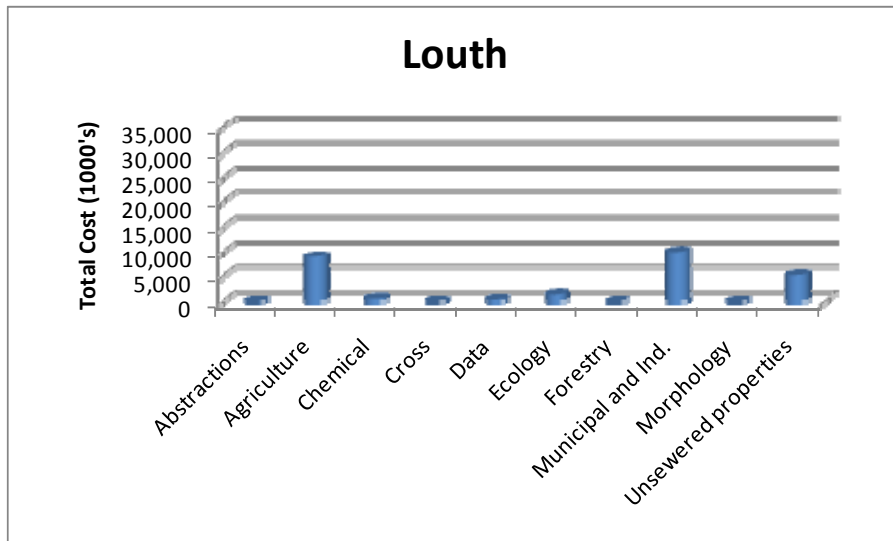
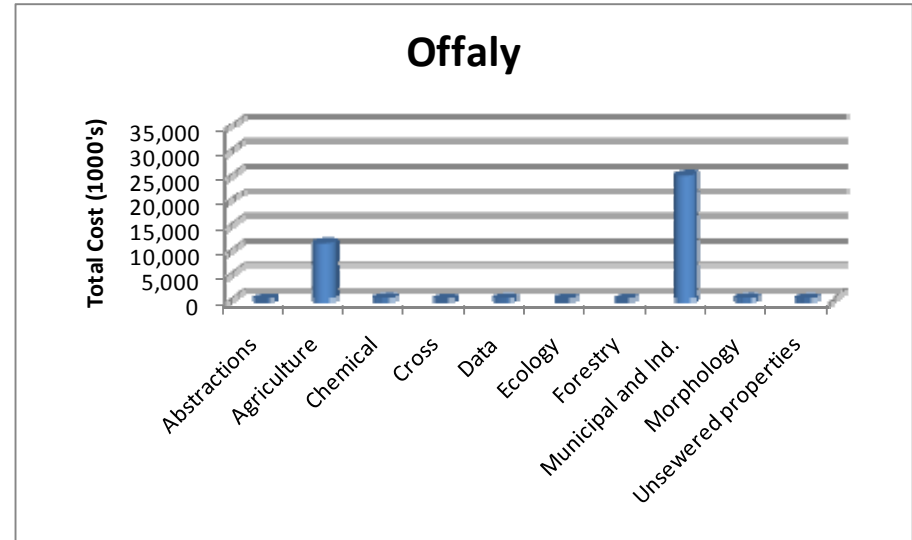
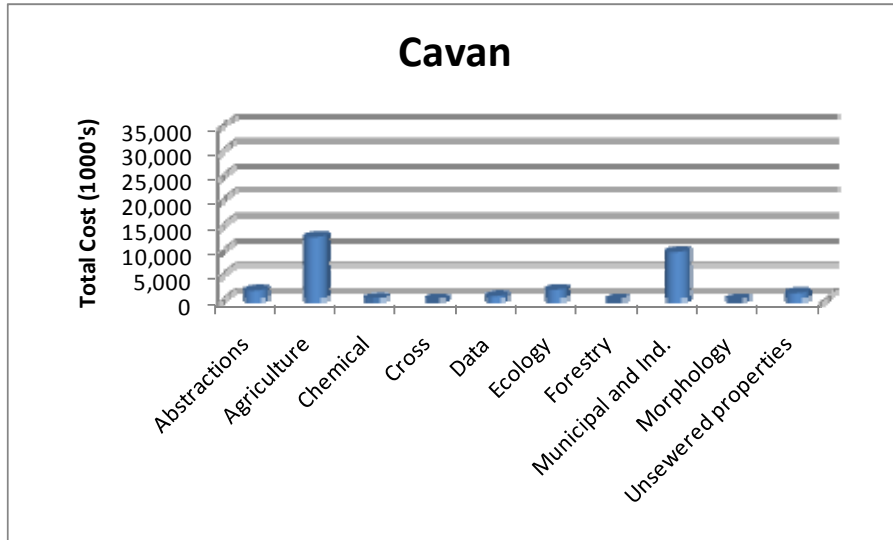


Figure 5.3: Costs for each Pressure Source (cont.)