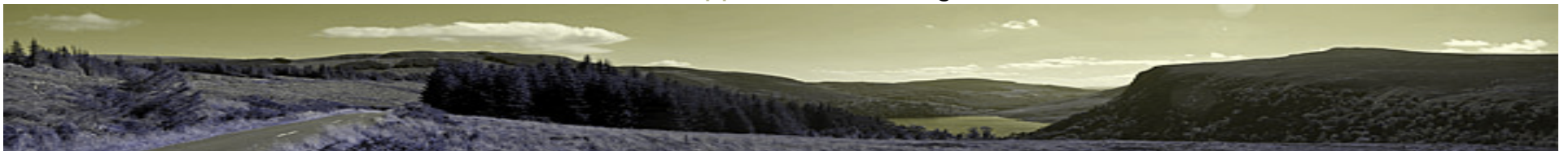


Draft Programme of Measures

Tolka WMU

1. Water Framework Directive
2. Overview of Water Management Unit
3. Status of Water
4. Objectives
5. Protected Areas
6. What are the Problems to address?
7. Programme of Measures
8. Alternative Objectives
9. What happens next?
10. What can you do?

Appendix 1&2: Programme of Measures



Document Control Sheet

Project	Eastern River Basin District			
Report	Draft - Tolka River and Lake Programme of Measures - for download			
Date	December 2008			
Project No: 39325		Document Reference: 39325/ERBD40/DG134 - S		
Version	Author	Reviewed	Checked	Date
Draft 1	AOC/AC	AGH	AOC	DEC 2008



Water Framework Directive

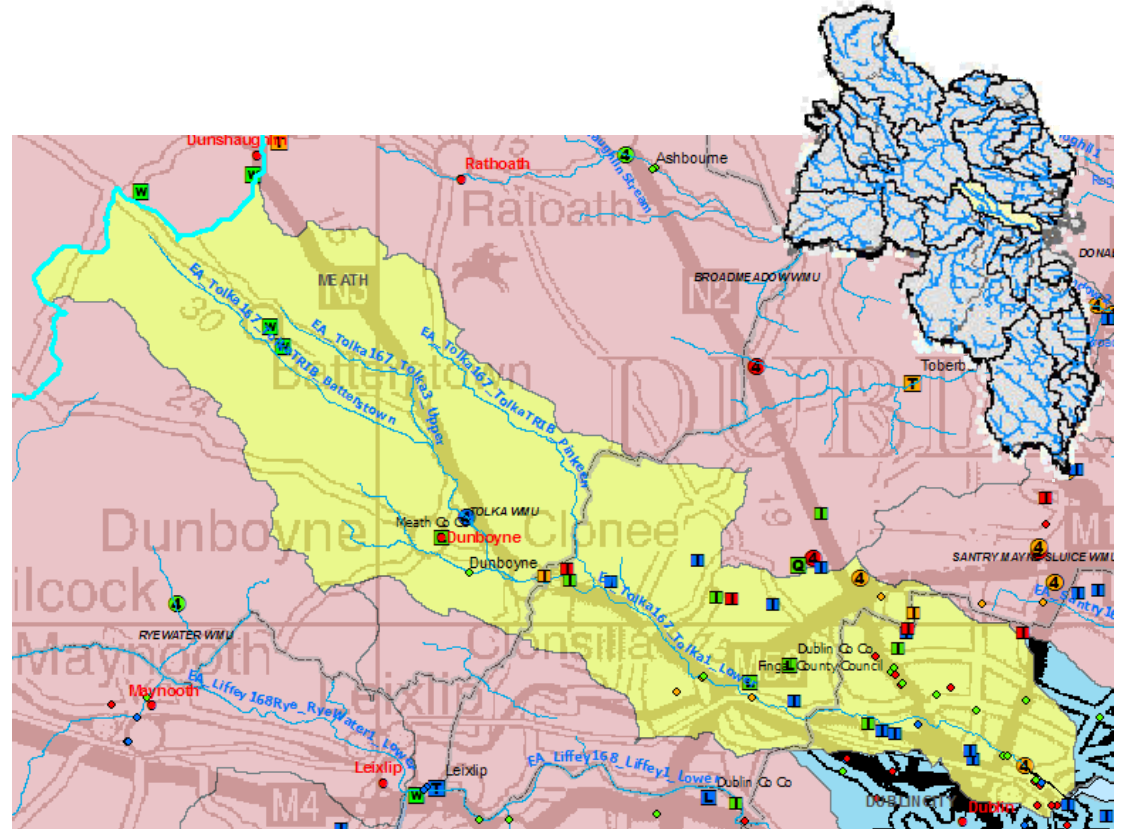
- ❑ The Draft River Basin Management Plan was published on the 22nd December 2008 for Public Consultation.
- ❑ This Programme of Measures accompanies the River Basin Management Plan created for the Eastern River Basin District.
- ❑ The River Basin Management Plan can be downloaded from the website, whilst more detail of the Programme of Measures is contained in the River Basin Management System which can be accessed through your Local Authority.
- ❑ The River Basin Management System is a web-based tool that assists Local Authorities to store information about the condition of their waters and the Programme of Measures for their improvement.
- ❑ For more information please visit www.erbd.ie



































Overview of Water Management Unit

Geography

- ❑ Local Authorities: 54% Meath, 29% Fingal, 16% Dublin City
- ❑ River Length: 57 km
- ❑ HMWB and AWB: River Tolka, Royal Canal Main Line
- ❑ Land use: Predominantly land-use is for agriculture
 - 46% pasture use
 - 18% arable
 - urban populations cover 35% of the area for example at Dunbooyne and Clonsilla.



Risk Assessment Legend

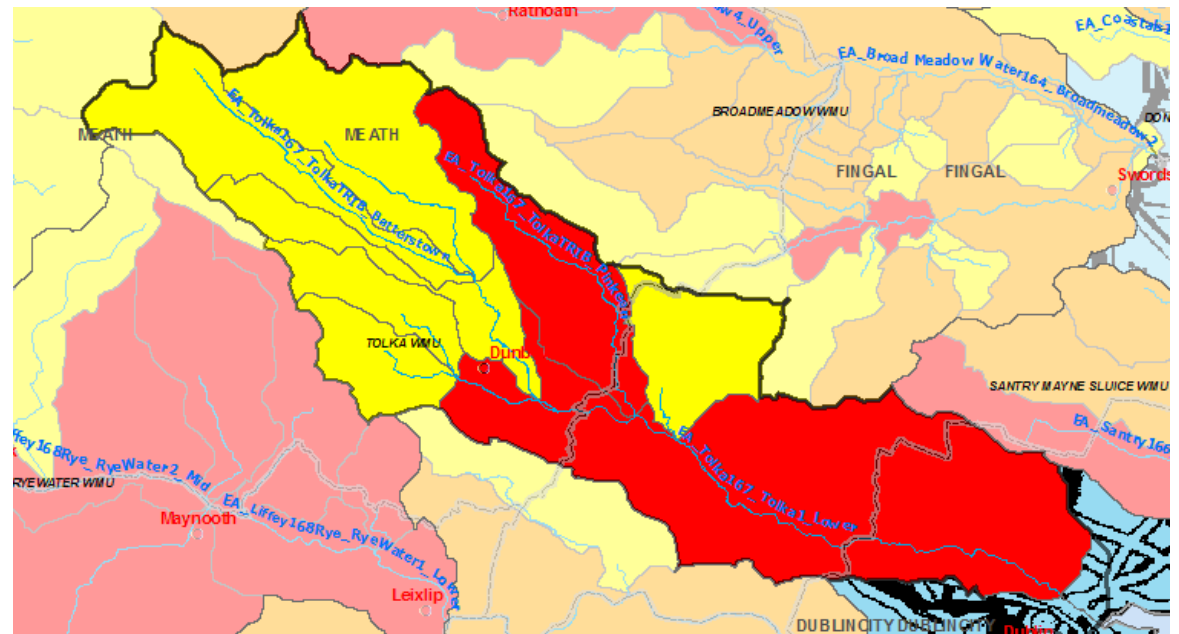
Risk	Symbol with Level of Risk	Risk	Symbol with Level of Risk
Abstraction			
CSO	 1a  1b  2a  2b	WWTPs	 1a  1b  2a  2b
Hydrometric Station	 ACTIVE  INACTIVE  OBSOLETE	WTPs	 2a
IPC Facilities	 1a  1b  2a  2b	Landfills	 1b  2a  2b
IPC Rivers	 1a  1b  2a  2b	Mines	 1a  1b  2a
Section 4	 1a  1b  2a  2b	Quarries	 2a
With 1a : At risk, 1b : Probably at risk, 2a : Probably not at risk, 2b : Not at risk			

Status of Water

The existing condition of our waters was determined by the Environmental Protection Agency using water quality, ecology and morphology monitoring data.

River Status:

Moderate	75%
Bad	25%



The percentage status is determined by the number of reportable segments or subbasins. For this reason the percentage might not seem representative.

Objectives

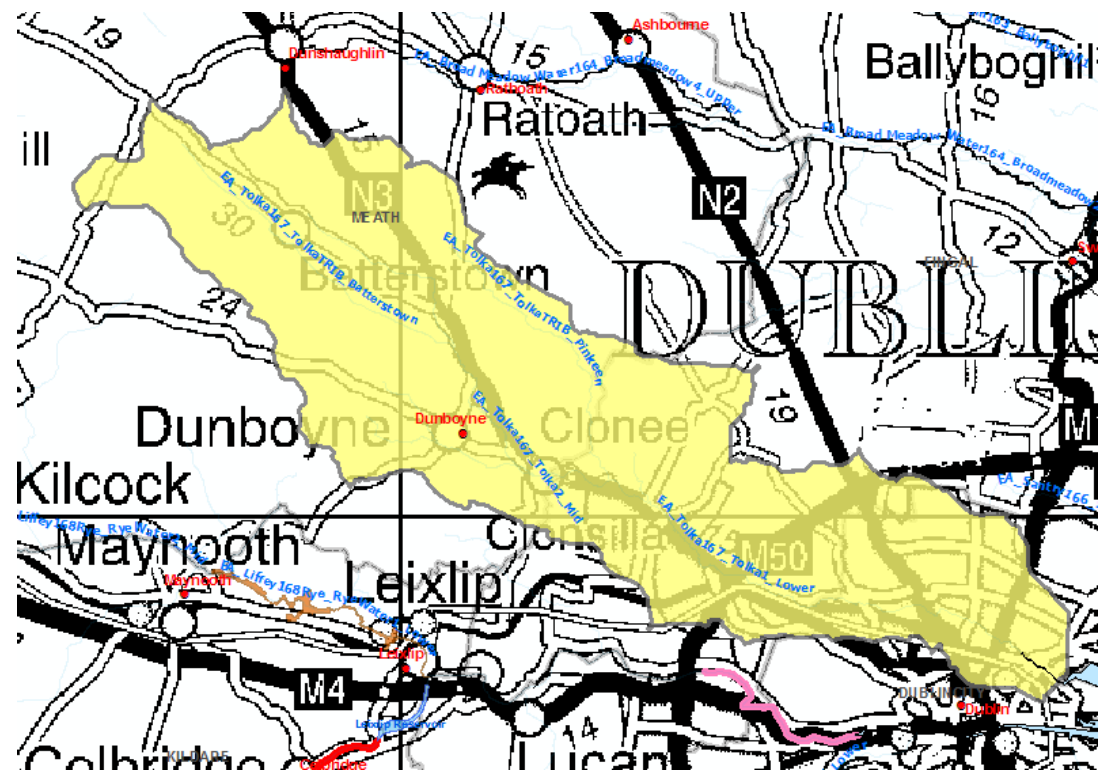
- ❑ Waters must be of satisfactory quality and sufficient quantity to protect the aquatic environment and its beneficial uses.
- ❑ We have four core objectives:
 1. Prevent deterioration and in particular maintain High or Good Status
 2. Improve waters to achieve Good Status where appropriate
 3. Progressively reduce chemical pollution
 4. Achieve our protected area objectives










Protected Areas








- Some areas require greater protection because they contain rare and vulnerable habitats or wildlife. Other protected areas are sensitive because of their beneficial use for humans, such as drinking water sources or shellfish areas.

National Heritage Areas (2)	✓	Royal Canal, North Dublin Bay
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Protected Areas Legend

Type of Protected area	Symbol
Drinking water – Monitoring point	
Drinking Water – Rivers	
Drinking Water - Groundwater	
Drinking Water – Surface water	
Nutrient Sensitive rivers	
Nutrient Sensitive Areas	
National Heritage Areas	

Type of Protected area	Symbol
Special Protected Areas	
Special Areas of Conservation	
Beaches	
Recreational lakes	
Salmonid Waters	
Register protected Areas – Water Dependant Habitats	
Shelfish	

What are the problems to address?

In the Eastern River Basin District an online management system allows local authorities to store, assess and make Programmes of Measures on all the information emerging relating to the Water Framework Directive.

The first step is to identify any issues that might prevent us from reaching the ultimate target of 'Good Status' (please see plan for a full definition of 'Good Status').

In Tolka the problems are:

- High Nutrients (Phosphorus, Ammonia)
- Oxygen Demand
- Low Ecological Rating
- Heavily Modified Channel

What could be causing these problems?

Pressure	County	% Contribution
Agriculture	FINGAL	20
	MEATH	70
Use and discharge of dangerous substances	FINGAL	7
	MEATH	2
Landfills, quarries, mines and contaminated lands	FINGAL	10
Wastewater and Industrial Discharges	DUBLINCITY	100
	FINGAL	50
	MEATH	5
Wastewater from unsewered properties	FINGAL	13
	MEATH	25

- ❑ In the Tolka sub-catchment the principal pressures are agriculture in the upper catchment and wastewater and industrial discharges in the lower catchment.
- ❑ In the upper catchment agriculture is emphasised by poorly drained soils which assist runoff of nutrients to surface water.
- ❑ In the lower catchment combined sewer overflows (wastewater discharge) and foul sewers from houses and businesses misconnected to rivers are principal concerns.
- ❑ The Tolka has been designated as heavily modified. This is discussed in later slides.

All percentages are estimated based on available data, analysis and expert judgement.

Programme of Measures

- Having assessed the current condition of our waters, the extent of areas to protect, and the risks and pressures affecting our waters, we can now determine the measures needed to bring them all back to good status.
- We must aim to achieve full implementation of all basic measures before 2015. If the implementation of all Basic Measures before 2015 will not get us to Good Status then we must necessarily select Supplementary Measures.

<i>Basic Measures</i>	Measures required by law
<i>Supplementary Measures</i>	Non-statutory measures deemed necessary

- The following pages detail the proposed Programme of Measures. We have also proposed an Alternative Programme of Measures that, in light of the large number of measures to be taken, prioritises certain measures for the first cycle of the plan (2010 – 2015).
- ***Please see the Appendix for the full list of basic and supplementary measures selected in both the Proposed and Alternative Programme of Measures.***

Proposed Programme of Measures

This proposed Programme of Measures aims to achieve the 4 core objectives as described earlier by fully implementing all basic measures and also implementing supplementary measures where deemed necessary.

Basic Measures:

A full list of basic measures is listed in the Draft River Basin Management Plan. It includes the regulations enacted from the following 11 European Directives and also requires member states to create measures for 11 other issues:

11 European Directives

1. Bathing Water Directive
2. Habitats Directive
3. Birds Directive
4. Drinking Water Directive
5. Major Accidents (Seveso) Directive
6. Environmental Impact Assessment Directive
7. Sewage Sludge Directive
8. Urban Waste Water Treatment Directive
9. Plant Protection Products Directive
10. Nitrates Directive
11. Integrated Pollution Prevention Control Directive

11 Other Basic Measures

1. Cost recovery for water use
2. Measures to promote efficient and sustainable use
3. Protection of drinking water sources
4. Control of abstraction and impoundment
5. Authorisation of discharges to groundwater
6. Control of point source discharges
7. Control of diffuse source pollution
8. Control of priority substances
9. Control of physical modifications of surface waters
10. Controls on other activities impacting water status
11. Prevention or reduction of the impact of accidental pollution incidents

Proposed Programme of Measures - Rivers

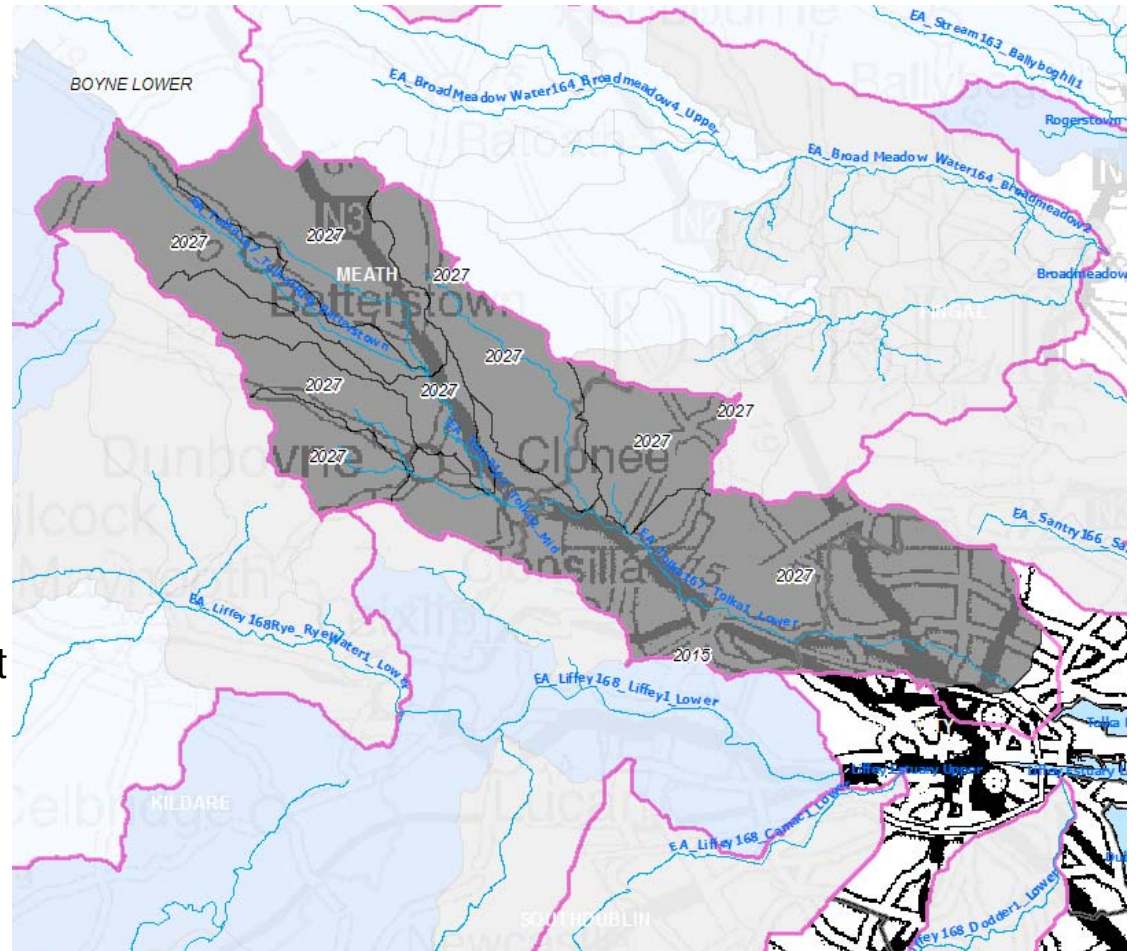
□ Supplementary Measures (In descending order of cost):

Top Ten Supplementary Measures - Liffey River Sub-catchment
Enforce Regulations on Septic Systems
Upgrade WWTW and Collecting Systems <2000 PE
CSO - Network Management & Operations Programme
Investigate and eliminate misconnections
Implement Community Digestors for Alternative Energy
Investigate Fats, Oils and Grease Issues
Restrict Cattle Access to rivers - Create Cattle Drinking points
Survey Banks/Coast
Further Investigate cause of failure
Emphasise linkage between Planning, Water Services, and Environmental Sections within Local Authorities for Planning Purposes

Alternative Objectives – Extended Timescale

- ❑ In some cases due to technical infeasibility, disproportionate cost, the natural condition of the waterbody or new physical modifications it may not be possible to achieve all core objectives by 2015.
- ❑ The main pressure preventing achievement of Good Status in 2015 is thought to be diffuse agricultural and urban diffuse pollution. Full implementation of the measures is expected to correct this, however recovery time will mean that probably no rivers will achieve Good Status before 2015.

2015	0%
2021	0%
2027	100%



The percentage status is determined by the number of reportable segments or subbasins. For this reason the percentage might not seem representative.

Alternative Objectives - Heavily Modified and Artificial Waterbodies

- ❑ Some surface waters have been substantially changed in character to allow uses such as:
 - Navigation
 - Water storage
 - Public supply
 - Flood defences
 - Land drainage.
- ❑ These waterbodies are called ***Heavily Modified***. This designation recognises that the waterbody can not be returned to its natural condition and therefore sets an alternative objective of Good Ecological Potential.
- ❑ Some waterbodies are entirely ***Artificial*** for example canals and for the same reasoning are set the alternative objective of Good Ecological Potential.
- ❑ We must still achieve good chemical condition, prevention of deterioration and achieve our protected area objectives.

Heavily Modified and Artificial waterbodies Status and Measures

Heavily Modified Water Body

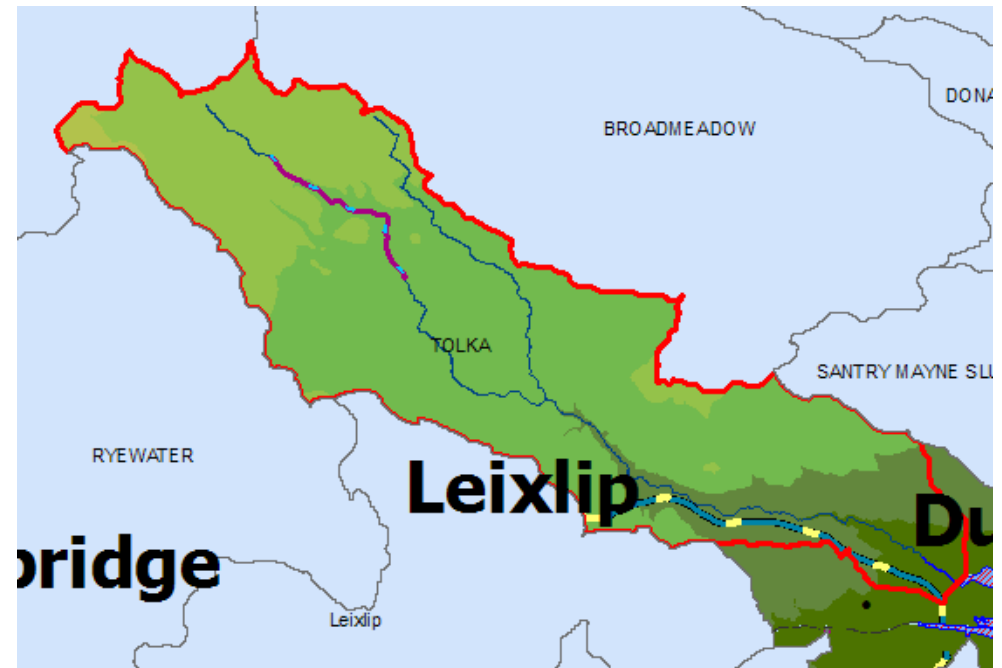
River Tolka

- ❑ **Reason for designation:** Flood Defences
- ❑ **Status:** Less than Good
- ❑ **Measures:** Protect and enhance ecological value of marginal aquatic habitat, banks and riparian zone, Increase in-channel morphological diversity, e.g., install instream features, 2 stage channels






Artificial Water Body

Royal Canal Main Line

- ❑ **Reason for designation:** Man-made canal
- ❑ **Status:** Good Ecological Potential
- ❑ **Measures:** None identified



Heavily Modified and Artificial Water Bodies Legend

Heavily Modified (HM) or Artificial Water Bodies (AWB)	Symbol
HM - Rivers	
HM - Marine	
HM - Lakes	
AWB - Canal	
AWB - Reservoirs	

What can you do?

You have your say!

- Now is your chance to have a say on the Programme of Measures:
 - Have all issues been addressed?
 - Do you have any measures to add to the proposed Programme of Measures?
 - What do you think about the Alternative Programme of Measures?
 - Would you spend more to achieve our goals faster?

- We can all help to implement this important legislation by thinking about our impact on the water environment in our everyday lives.



How to comment

Please *have your say* in any of the following ways:

1. Email your comments to comments@erbd.ie and include River Basin Management Plan Comments in the subject line

2. Write to:

River Basin Management Plan Comments

Project Co-ordinator

Eastern River Basin District Project Office

Dublin City Council

68-70 Marrowbone Lane, 4th Floor

Dublin 8



Appendix 1:

Proposed Programme of Measures



Programme of Measures Key

ABS	Abstractions
AGR	Agricultural Point and Diffuse Sources
AGR-PS	Unlicensed Agricultural Point Sources
Chem	Chemical Fertiliser
CROSS	Planning, Development and other sources
DLRCC	Dun Laoghaire Rathdown County Council
DS	Dangerous Substances
ECO	Poor Ecology
FOR	Forestry
IPPC	Industrial Sources
Manure	Manure Fertilisers
MORP	Intensive Land use
S4	Local Authority Licensed Discharges
WWTP	Wastewater Treatment Plants
DATA+	An Absence of sufficient data
HS	To Protect High Status Waters
Septic	Onsite Wastewater Treatment Systems
U-DIFF	Urban Diffuse Pollution

Proposed Programme of Measures

– Basic Measures for Rivers

Local Authority	Parent ID Name	MeasureName	Source
DUBLINCITY	Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989)	Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989)	ABS
DUBLINCITY	National Water Pricing Policy Framework (1998)	National Water Pricing Policy Framework (1998)	ABS
DUBLINCITY	Water Supplies Act 1942	Water Supplies Act 1942	ABS
DUBLINCITY	EC (Good Agricultural Practice for Protection of Waters) Regulations (S.I. 378 of 2006 and S.I. 526 of 2007)	EC (Good Agricultural Practice for Protection of Waters) Regulations (S.I. 378 of 2006 and S.I. 526 of 2007)	AGR
DUBLINCITY	Bathing Water Quality Regulations (S.I. 79 of 2008)	Bathing Water Quality Regulations (S.I. 79 of 2008)	CROSS
DUBLINCITY	EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007)	EC (Drinking Water) (No 2) Regulations (S.I. 278 of 2007)	CROSS
DUBLINCITY	EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards)	EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards)	CROSS
DUBLINCITY	EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988)	EC (Quality of Salmonid Water) Regulations (S.I. 293 of 1988)	CROSS
DUBLINCITY	Planning Development Acts 2000 - 2006	Planning Development Acts 2000 - 2006	CROSS
DUBLINCITY	Planning and Development Regulations 2001 - 2007	Planning and Development Regulations 2001 - 2007	CROSS
DUBLINCITY	EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006)	EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006)	DS
DUBLINCITY	EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments	EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments	DS
DUBLINCITY	EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001	EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001	DS
DUBLINCITY	EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments	EC (Prohibition of certain active substances in plant protection products) Regulations, 1981 and amendments	DS
DUBLINCITY	Water Quality Dangerous Substances Regulations, 2001	Water Quality Dangerous Substances Regulations, 2001	DS
DUBLINCITY	Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998)	Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations, 1998 (S.I. 258 of 1998)	DS

Proposed Programme of Measures – Basic Measures for Rivers (cont.)

Local Authority	Parent ID Name	MeasureName	Source
DUBLINCITY	EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC)	EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC)	DS
DUBLINCITY	Framework for Major Emergency Management, Office of Emergency Planning, 2006	Framework for Major Emergency Management, Office of Emergency Planning, 2006	DS
DUBLINCITY	EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007	EC (Aerial Fertilisation) (Forestry) Regulations 2006 and amendment 2007	FOR
DUBLINCITY	EPA (Licensing) Regulations, 1994 & 2004	EPA (Licensing) Regulations, 1994 & 2004	IPPC
DUBLINCITY	Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001	Waste Management (Use of Sewage Sludge in Agriculture) Regulations, 1998 - 2001	Manure
DUBLINCITY	Forestry Act 1946 and 1988	Forestry Act 1946 and 1988	Manure
DUBLINCITY	Local Government (Water Pollution) Act 1 of 1977 and amendments	Local Government (Water Pollution) Act 1 of 1977 and amendments	S4
DUBLINCITY	Urban Waste Water Treatment Regulations, 2001 - 2004	Urban Waste Water Treatment Regulations, 2001 - 2004	WWTP
DUBLINCITY	Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007)	Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007)	WWTP
DUBLINCITY	Water Services Act 2007	Water Services Act 2007	WWTP
FINGAL	Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989)	Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989)	ABS
FINGAL	National Water Pricing Policy Framework (1998)	National Water Pricing Policy Framework (1998)	ABS
FINGAL	Water Supplies Act 1942	Water Supplies Act 1942	ABS
FINGAL	EC (Good Agricultural Practice for Protection of Waters) Regulations (S.I. 378 of 2006 and S.I. 526 of 2007)	EC (Good Agricultural Practice for Protection of Waters) Regulations (S.I. 378 of 2006 and S.I. 526 of 2007)	AGR
FINGAL	EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards)	EC (Environmental Impact Assessment) Regulations and amendments (S.I. 349 of 1989 onwards)	CROSS
FINGAL	Planning Development Acts 2000 - 2006	Planning Development Acts 2000 - 2006	CROSS
FINGAL	Planning and Development Regulations 2001 - 2007	Planning and Development Regulations 2001 - 2007	CROSS

Proposed Programme of Measures

– Basic Measures for Rivers (cont.)

Local Authority	Parent ID Name	MeasureName	Source
FINGAL	EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006)	EC (Control of Major Accident Hazards Involving Dangerous Substances) Regulations (S.I. 74 of 2006)	DS
FINGAL	EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments	EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments	DS
FINGAL	EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001	EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001	DS
FINGAL	EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC)	EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC)	DS
FINGAL	EPA (Licensing) Regulations, 1994 & 2004	EPA (Licensing) Regulations, 1994 & 2004	IPPC
FINGAL	Local Government (Water Pollution) Act 1 of 1977 and amendments	Local Government (Water Pollution) Act 1 of 1977 and amendments	S4
FINGAL	Urban Waste Water Treatment Regulations, 2001 - 2004	Urban Waste Water Treatment Regulations, 2001 - 2004	WWTP
FINGAL	Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007)	Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007)	WWTP
FINGAL	Water Services Act 2007	Water Services Act 2007	WWTP
MEATH	Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989)	Quality of Surface Water intended for the Abstraction of Drinking Water (S.I. 294 of 1989)	ABS
MEATH	National Water Pricing Policy Framework (1998)	National Water Pricing Policy Framework (1998)	ABS
MEATH	Water Supplies Act 1942	Water Supplies Act 1942	ABS
MEATH	EC (Good Agricultural Practice for Protection of Waters) Regulations (S.I. 378 of 2006 and S.I. 526 of 2007)	EC (Good Agricultural Practice for Protection of Waters) Regulations (S.I. 378 of 2006 and S.I. 526 of 2007)	AGR
MEATH	Planning Development Acts 2000 - 2006	Planning Development Acts 2000 - 2006	CROSS
MEATH	Planning and Development Regulations 2001 - 2007	Planning and Development Regulations 2001 - 2007	CROSS

Proposed Programme of Measures – Basic Measures for Rivers (cont.)

Local Authority	Parent ID Name	MeasureName	Source
MEATH	EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments	EC (Authorisation, Placing on the Market, Use and Control of Plant Protection Products), 2003 and amendments	DS
MEATH	EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001	EC (Classification Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations, 2001	DS
MEATH	EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC)	EU Regulations Registration, Evaluation, Authorisation and Restriction of Chemical substances (REACH) (1907/2006/EC)	DS
MEATH	EPA (Licensing) Regulations, 1994 & 2004	EPA (Licensing) Regulations, 1994 & 2004	IPPC
MEATH	Local Government (Water Pollution) Act 1 of 1977 and amendments	Local Government (Water Pollution) Act 1 of 1977 and amendments	S4
MEATH	Urban Waste Water Treatment Regulations, 2001 - 2004	Urban Waste Water Treatment Regulations, 2001 - 2004	WWTP
MEATH	Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007)	Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007)	WWTP
MEATH	Water Services Act 2007	Water Services Act 2007	WWTP



Proposed Programme of Measures

– Supplementary Measures for Rivers

Local Authority	Measure Name	Measure Type	Source
DUBLINCITY	Emphasise linkage between Planning, Water Services, and Environmental Sections within Local Authorities for Planning Purposes	Proposed	CROSS
DUBLINCITY	Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater	Proposed	ABS
DUBLINCITY	Modernise Abstraction Legislation, including a system for licensing surface water abstractions	Proposed	ABS
DUBLINCITY	Implement Upstream Programmes of Measures	Proposed	CROSS
DUBLINCITY	Apply Heavily Modified Waterbody Measures (See External Document)	Proposed	MORP
DUBLINCITY	CSO - Network Management & Operations Programme	Supplementary	WWTP
DUBLINCITY	Investigate and eliminate misconnections	Supplementary	WWTP
DUBLINCITY	Investigate Fats, Oils and Grease Issues	Supplementary	WWTP
DUBLINCITY	Further Investigate cause of failure	Supplementary	DATA+
DUBLINCITY	Survey Banks/Coast	Supplementary	DATA+
FINGAL	Emphasise linkage between Planning, Water Services, and Environmental Sections within Local Authorities for Planning Purposes	Proposed	CROSS
FINGAL	Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater	Proposed	ABS
FINGAL	Modernise Abstraction Legislation, including a system for licensing surface water abstractions	Proposed	ABS
FINGAL	Apply Heavily Modified Waterbody Measures (See External Document)	Proposed	MORP
MEATH	Department of Agriculture - Code of Good Practice and Guidelines on the use of biosolids in Agriculture, 1999	Proposed	Manure
MEATH	Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater	Proposed	ABS
MEATH	Modernise Abstraction Legislation, including a system for licensing surface water abstractions	Proposed	ABS
MEATH	Apply Heavily Modified Waterbody Measures (See External Document)	Proposed	MORP
MEATH	Development Plans/Local Area Plans - Plans should integrate OSWTS Risk matrices	Proposed	Septic
MEATH	LAs to adopt a common Register of approved Site Assessors and common Code of Practice for maintaining register	Proposed	Septic
MEATH	LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections	Proposed	Septic
MEATH	Enforce Regulations on Septic Systems	Supplementary	Septic
MEATH	Upgrade WWTW and Collecting Systems <2000 PE	Supplementary	WWTP
MEATH	Implement Community Digestors for Alternative Energy	Supplementary	WWTP
MEATH	Restrict Cattle Access to rivers - Create Cattle Drinking points	Supplementary	AGR-PS



Appendix 2:

Alternative Programme of Measures



Alternative Programme of Measures

– Basic Measures for Rivers

Local Authority	Measure Name	Sub-Measure Name	Source
FINGAL	EC (Good Agricultural Practice for Protection of Waters) Regulations (S.I. 378 of 2006 and S.I. 526 of 2007)	Conduct Farm Surveys	AGR
FINGAL	EC (Good Agricultural Practice for Protection of Waters) Regulations (S.I. 378 of 2006 and S.I. 526 of 2007)	Improve farmyard structure/operations to divert rainwater runoff	AGR-PS
FINGAL	EC (Good Agricultural Practice for Protection of Waters) Regulations (S.I. 378 of 2006 and S.I. 526 of 2007)	Soiled water generation minimisation practises	AGR-PS
FINGAL	EC (Good Agricultural Practice for Protection of Waters) Regulations (S.I. 378 of 2006 and S.I. 526 of 2007)	Fertiliser/manure/soiled water/effluent/slurry/silage storage facilities to prevent seepage to ground or surface water	AGR-PS
FINGAL	EC (Good Agricultural Practice for Protection of Waters) Regulations (S.I. 378 of 2006 and S.I. 526 of 2007)	Nutrient management	Manure
FINGAL	EC (Good Agricultural Practice for Protection of Waters) Regulations (S.I. 378 of 2006 and S.I. 526 of 2007)	Locate Manure heaps at a specified distance from waterbodies	Manure
FINGAL	Local Government (Water Pollution) Act 1 of 1977 and amendments	Enforce Section 4s (discharges to waterbodies)	S4
FINGAL	Local Government (Water Pollution) Act 1 of 1977 and amendments	Enforce Section 16s	S4
FINGAL	Urban Waste Water Treatment Regulations, 2001 - 2004	Collecting systems for p.e.'s >2,000 (unless negligible benefits or excessive costs)	WWTP
FINGAL	Waste Water Discharge (Authorisation) Regulations (S.I. 684 of 2007)	Certify all waste water discharges less than 500 PE.	WWTP
MEATH	EC (Good Agricultural Practice for Protection of Waters) Regulations (S.I. 378 of 2006 and S.I. 526 of 2007)	Conduct Farm Surveys	AGR
MEATH	EC (Good Agricultural Practice for Protection of Waters) Regulations (S.I. 378 of 2006 and S.I. 526 of 2007)	Improve farmyard structure/operations to divert rainwater runoff	AGR-PS
MEATH	EC (Good Agricultural Practice for Protection of Waters) Regulations (S.I. 378 of 2006 and S.I. 526 of 2007)	Soiled water generation minimisation practises	AGR-PS
MEATH	EC (Good Agricultural Practice for Protection of Waters) Regulations (S.I. 378 of 2006 and S.I. 526 of 2007)	Fertiliser/manure/soiled water/effluent/slurry/silage storage facilities to prevent seepage to ground or surface water	AGR-PS
MEATH	EC (Good Agricultural Practice for Protection of Waters) Regulations (S.I. 378 of 2006 and S.I. 526 of 2007)	Nutrient management	Manure
MEATH	Local Government (Water Pollution) Act 1 of 1977 and amendments	Enforce Section 4s (discharges to waterbodies)	S4
MEATH	Local Government (Water Pollution) Act 1 of 1977 and amendments	Enforce Section 16s	S4
MEATH	Urban Waste Water Treatment Regulations, 2001 - 2004	Collecting systems for p.e.'s >2,000 (unless negligible benefits or excessive costs)	WWTP

Alternative Programme of Measures – Supplementary Measures for Rivers

Local Authority	Measure Name	Measure Type	Source
DUBLINCITY	Modernise Abstraction Legislation, including a system for licensing surface water abstractions	Proposed	ABS
DUBLINCITY	Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater	Proposed	ABS
DUBLINCITY	Implement Upstream Programmes of Measures	Supplementary	CROSS
DUBLINCITY	Emphasise linkage between Planning, Water Services, and Environmental Sections within Local Authorities for Planning Purposes	Supplementary	CROSS
DUBLINCITY	Further Investigate cause of failure	Supplementary	DATA+
DUBLINCITY	Further Investigate cause of failure	Supplementary	DATA+
DUBLINCITY	Survey Banks/Coast	Supplementary	DATA+
DUBLINCITY	Apply Heavily Modified Waterbody Measures (See External Document)	Supplementary	MORP
DUBLINCITY	Investigate and eliminate misconnections	Supplementary	WWTP
DUBLINCITY	Investigate Fats, Oils and Grease Issues	Supplementary	WWTP
DUBLINCITY	CSO - Upgrades and Rehabilitation	Supplementary	WWTP
DUBLINCITY	CSO - Network Management & Operations Programme	Supplementary	WWTP
FINGAL	Modernise Abstraction Legislation, including a system for licensing surface water abstractions	Proposed	ABS
FINGAL	Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater	Proposed	ABS

Alternative Programme of Measures

– Supplementary Measures for Rivers (cont.)

Local Authority	Measure Name	Measure Type	Source
FINGAL	Emphasise linkage between Planning, Water Services, and Environmental Sections within Local Authorities for Planning Purposes	Supplementary	CROSS
MEATH	Modernise Abstraction Legislation, including a system for licensing surface water abstractions	Proposed	ABS
MEATH	Conduct awareness campaign for sustainable domestic water use, including rainwater harvesting and domestic soakaways for stormwater	Proposed	ABS
MEATH	Restrict Cattle Access to rivers - Create Cattle Drinking points	Supplementary	AGR-PS
MEATH	Emphasise linkage between Planning, Water Services, and Environmental Sections within Local Authorities for Planning Purposes	Supplementary	CROSS
MEATH	Department of Agriculture - Code of Good Practice and Guidelines on the use of biosolids in Agriculture, 1999	Guidance	Manure
MEATH	Apply Heavily Modified Waterbody Measures (See External Document)	Supplementary	MORP
MEATH	Development Plans/Local Area Plans - Plans should integrate OSWTS Risk matrices	Proposed	Septic
MEATH	LAs to adopt a common Register of approved Site Assessors and common Code of Practice for maintaining register	Proposed	Septic
MEATH	LAs to utilise risk maps of OSWTS to inform decision making and target areas for inspections	Proposed	Septic
MEATH	Enforce Regulations on Septic Systems	Supplementary	Septic
MEATH	Upgrade WWTW and Collecting Systems <2000 PE	Supplementary	WWTP
MEATH	Implement Community Digestors for Alternative Energy	Supplementary	WWTP