Water Matters – Have Your Say!

Digest of submissions and responses to Significant Water Management Issues Reports

South Eastern River Basin District

In accordance with Article 14 of the European Communities (Water Policy) Regulations 2003 (Statutory Instrument No. 722 of 2003)





Abbreviatio	ns			
AC	-	Advisory Council		
DCMNR	-	Department of Communications, Marine and Natural Resources		
DEHLG	-	Department of Environment, Heritage and Local Government		
EIA	-	Environmental Impact Assessment		
ERBD	-	Eastern River Basin District		
EPA	-	Environmental Protection Agency		
EU	-	European Union		
LA	-	Local Authority		
NGO	-	Non-Governmental Organisation		
NPWS	-	National Parks and Wildlife Service		
GIS	-	Geographic Information Systems		
GHS	-	Global Harmonisation System for Classification and labelling of chemicals		
GSI	-	Geological Survey of Ireland		
HSA	-	Health and Safety Authority		
IFA	-	Irish Farmers Association		
OSWTS	-	On-Site Waste Water Treatment Systems		
OPW	-	Office of Public Works		
RBD	-	River Basin District		
RBMP	-	River Basin Management Plan		
POM	-	Programme of Measures		
RBMP	-	River Basin Management Plan		
REACH	-	Registration, Evaluation, Authorisation and Restriction of Chemicals		
REPS	-	Rural Environment Protection Scheme		
SEA	-	Strategic Environmental Assessment		
SERBD	-	South Eastern River Basin District		
SIMCAT	-	Simulation of the water quality in Catchments		
SI	-	Statutory Instrument		
SME	-	Small and Medium Enterprises		
SuDs	-	Sustainable Urban Drainage Systems		
SWAN	-	Sustainable Water Network		
SWRBD	-	South Western River Basin District		
UN	-	United Nations		
WFD	-	Water Framework Directive		
WRBD	-	Western River Basin District		
WWTP	-	Waste Water Treatment Plants		



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1.0 Introduction

1.1 Background

The EC Water Framework Directive (WFD) was adopted in 2000 and requires that Members States manage their waters on the basis of River Basin Districts (RBDs). There are eight RBDs on the island of Ireland. Three of these are International River Basin Districts (IRBDs) because their catchments lie partly in Ireland and partly in Northern Ireland.

As part of the process leading to the making of river basin management plans for each RBD, the WFD requires the identification of Significant Water Management Issues (SWMI) in each RBD at least two years before the beginning of the River Basin Management Plan. Significant water management issues are defined as environmental pressures that pose the greatest risk to water bodies in the River Basin District. These are the issues that could cause water bodies to fail to achieve the environmental objectives of the WFD by 2015. The significant issues were identified using the latest information available and consultation with key stakeholder groups including:

- Characterisation reports produced under WFD Article 5 for each RBD
- Further Characterisation studies
- National water quality reports
- Analysis of the sectors and activities that are putting water bodies at risk in the River Basin District
- Consultation with statutory River Basin District Advisory Councils
- Consultations with public authorities and sectoral interest groups

A significant water management issues report was published for each RBD in the form of a booklet titled '*Water Matters – Have your say!*' The booklets were produced to inform stakeholders of the main significant water management issues that were identified as having an impact on water quality in the RBD. They also outlined proposals for what might be done to address these issues in the River Basin Management Plans. These '*Water Matters – Have your say!*' booklets were published on the 22^{nd} June 2007 in Ireland and Northern Ireland.

The '*Water Matters*' report for the South Eastern River Basin District was issued jointly by the responsible authorities for the district, namely the county councils of Carlow, Wexford, Kilkenny, Waterford, South Tipperary, Laois, North Tipperary, Kildare, Offaly, Wicklow, Waterford City, Limerick and Cork and the Department of the Environment's Environment, Heritage and Local Government.

The public were invited to submit their comments on the contents of the booklets over a six month consultation period.

1.2 General context and layout of 'Water Matters - Have Your Say!' reports

The '*Water Matters*' booklets were intended to be easily understood and read by people with differing levels of knowledge of the Water Framework Directive. The booklets were divided into eight national topics that had been identified as significant within all the River Basin Districts in Ireland and one topic on local issues in the River Basin District such as invasive alien species and high quality areas.



Specific questions were posed about each topic seeking the readers' view about the suggested actions, whether the actions were appropriate and whether something important had been missed. See Appendix 2 for the full list of questions.

1.3 Consultation and Participation Activities

Consultation on '*Water Matters*' reports took place from 22^{nd} June to 22^{nd} December 2007. Stakeholders and the public were invited to submit comments by post to nominated persons or through the river basin district website (<u>www.serbd.com</u>).

In order to publicise the '*Water Matters*' booklet and provide opportunities for the public to engage in the consultation process, a series of evening meetings were hosted in the South Eastern River Basin District in November 2007. Four public meetings were held by the South Eastern River Basin District Project, as detailed in Table 1. Similar meetings were held in the other River Basin District. Summaries of the issues raised at these meetings can be found in Appendix 3 of this document.

Date	Venue
19 th November	Newpark Hotel, Kilkenny
20 th November	Comfort Inn, Portlaoise
21 st November	Clonmel Park Hotel, Clonmel
22 nd November	Riverside Park Hotel, Enniscorthy

Table 1: Public Consultation Meetings

1.4 Scope of the digest

This digest is a compilation of written submissions received during the consultation period. All submissions are responded to herein and will be considered during the development of the draft river basin management plans. These draft plans must be published by the 22^{nd} December 2008 and are then also subject to a 6 month consultation period. This compendium of submissions and responses is being distributed to those who took part in the process and other interested parties, and will also be available on the South Eastern River Basin District project website (www.serbd.com).

1.5 South Eastern Aspect of the digest

Ten submissions were sent from national organisations and covered national topics. Fifteen submissions were sent from South Eastern based organisations and covered South Eastern related and national topics. All of these submissions are covered in this report. The South Eastern submissions are dealt with in the grey boxes and the national submissions are dealt with in the white boxes of the tables below.



2.0 Summary of submissions

2.1 Written submissions

A total of 26 written submissions were received by the South Eastern River Basin District. See Table 2 below for a list of organisations and individuals that made written submissions to the South Eastern River Basin District.

2.2 Topics covered

Written submissions received were examined and were divided into:

- Issues related to the 8 national topics:
 - Wastewater and industrial discharges
 - Landfills, quarries, mines and contaminated lands
 - > Agriculture
 - Wastewater from unsewered properties
 - ➢ Forestry
 - Usage and discharge of dangerous substances
 - Physical modifications
 - Abstractions
- Specific local issues in the South Eastern districts which include issues surrounding invasive alien species, high quality areas, and climate change.
- Additional issues not identified in the 'Water Matters' reports e.g. aquaculture.
- Issues associated with action themes such as enforcement, resources and public participation.



3.0 Detailed Comments

Written submissions comments are outlined in this section together with a considered response. Submissions and responses are grouped where possible as described above (Section 2.3).

3.1 Referencing system

Reference codes have been assigned to the organisations and individuals that made submissions (see table 2 below). The codes allow the reader to identify the source of the submission.

Reference Code	Name	Organisation
SE_SWMI_001	Nigel Russell	Waterways Ireland
SE_SWMI_002	Dr. Elizabeth Cullen	Irish Doctors Environmental Association
SE_SWMI_003		Irish Wildlife Trust
SE_SWMI_004	Declan Murphy	Failte Ireland
SE_SWMI_005	William Symth	Irish Concrete Federation
SE_SWMI_006	Siobhán Egan	Bird Watch Ireland
SE_SWMI_007	Nathy Gilligan	Office of Public Works
SE_SWMI_008	Thomas Ryan	Irish Farmers Association
SE_SWMI_009	Sinead O'Brien	SWAN
SE_SWMI_010	Damian Allen	Forest Service, Department of Agriculture
		Fisheries and Food
SE_SWMI_011	P.J. Jackman	Cashel,Golden, Tipperary Anglers
		Association
SE_SWMI_012	Christopher Finlay	Portarlington Anglers Ltd.
SE_SWMI_013	N Eacha	
SE_SWMI_014	Jim Hurley	
SE_SWMI_015	Brian Rickwood	
SE_SWMI_016	Pat Durkin	
SE_SWMI_017	Charles Tweeney	
SE_SWMI_018	John Fitzgerald	
SE_SWMI_019	Eamon Moore	An Taisce, SERBD Management Group,
		Advisory Council, NGO Network, SWAN,
		Barrow Catchment Management Steering
		Group, Barrow Angler's Club
SE_SWMI_020	Daniel Norton	
SE_SWMI_021	Susan Crampton	
SE_SWMI_022	Michael Brennan	Environmental SPC Member
SE_SWMI_023		South Eastern Network Group
SE_SWMI_024	Marie Power	Irish Wildlife Trust
SE_SWMI_025		Burrin Drainage Committee

 Table 2. Reference system to identify submissions in the digest



South Eastern River Basin District

3.2 Submissions and Responses

The following submissions relate to issues covered in the 'Water Matters' reports.

3.2.1 Wastewater and industrial discharges

Wastewater and industria	Wastewater and industrial discharges		
Submission Reference No.	Issues Identified	Response	
SE_SWMI_009	Identified the complex administrative process surrounding the roll out of the Water Services Investment Programme. Noted resource issues in local authorities that have contributed to a significant number of agglomerations still being non-compliant with the Urban Wastewater Treatment Directive. The upgrade of all existing plants that are non-compliant must be initiated immediately and there should be a roll over of the budgets for capital works.	As part of the preparation for the River Basin Management Plan a study on municipal and industrial discharges was carried out. An outcome of this study will be the setting of national priorities for new and up-graded sewage treatment plants. This will inform and expedite the Water Service Investment Programme. Furthermore, new procurement procedures have been put in place to expedite the appointment of design teams and contactors and to shorten timescales for approval of project stages. The Wastewater Discharge (Authorisation) Regulations 2007 require the licensing of municipal discharges by the Environmental Protection Agency. The licenses will require local authorities, inter-alia, to comply with the Urban Wastewater Treatment Directive. Many of the newer waste water treatment plants are being procured using design-build- operate contracts. The conditions of the contracts will ensure that the plants meet the required standards. The study referred to above will identify plants that are non-compliant or are likely to become non-compliant. The works to bring the plants into compliance will be funded by the Water Services Investment Programme.	
SE_SWMI_009	Where sewage treatment works are overloaded there should be a moratorium on further development in the area served by the plant until it is upgraded.	Where an overloaded sewage treatment plant is causing deterioration in water status or is preventing the achievement of at least good status in a receiving water, measures will be required to be taken. These measures may include a moratorium on development in the area served by the plant. However, other measures will also be considered.	
SE_SWMI_009 SE_SWMI_003	All treatment plants for 200+ population should be upgraded to tertiary treatment levels and all new sewage treatment plants should have tertiary treatment levels.	Tertiary treatment is required when, due to the sensitivity of the receiving water, a higher standard of treated effluent is required. There are different types of tertiary treatment. One example is the exposure of	
		secondary treated effluent to ultra violet light to inactivate	



Wastewater and industrial discharges			
Submission Reference No.	Issues Identified	Response	
		microbiological pathogens. This type of tertiary treatment is used to protect bathing and shellfish waters. Another example is the use of chemicals to remove phosphate. This is used if the discharge is to waters that are eutrophic and the nutrient causing the problem is phosphate. In the case of many discharges there would be no benefit in providing tertiary treatment.	
SE_SWMI_003	Infrastructure leakage needs to be addressed. Regular	Leaks from sewers can pollute groundwater and surface waters. It is	
SE_SWMI_009	monitoring systems must be established to identify, locate and repair leaks. Storm drainage must be disconnected from sewerage infrastructure.	currently a legal requirement that local authorities provide 'fit for purpose' water and waste water distribution and treatment systems. Additionally, a measure that may arise from the study of municipal and industrial discharges may be the requirement for sewerage schemes to have Performance Management Systems in place which will require operational and maintenance programmes. This should assist in identifying any leaks in the system more efficiently. In the design of new sewerage schemes storm water and sewage are kept separate. In old, combined schemes separation of storm water from sewage shall be included in the operational and maintenance programmes.	
SE_SWMI_003	Expressed concern that the exemptions set out in Article	These exemptions are allowed by the Water Framework Directive but	
SE_SWMI_009	7.(1) & 7.(2) of the 'Waste Water Discharge (Authorisation) Regulations 2007' allow time derogations up until 2027 for discharges causing the receiving waters to fail to meet good ecological status, for reasons of "technical feasibility" or because improvements would be "disproportionately expensive".	must be fully justified in the River Basin Management Plans. Where exemptions are granted mitigation measures to reduce the impact of the discharges must still be put in place.	
SE_SWMI_009	Prohibit the land-spreading of sludge from sewage treatment plants.	Land spreading of sewage sludge is an appropriate method of disposal provided that the necessary precautionary measures are taken. Current regulations require the close monitoring of soil and sludge and provide limits on heavy metals and on when and where the sludge can be spread in order to reduce risk of pollution. If the land spreading of sludge was prohibited there would be a greater demand for artificial fertilisers and the issue of sewage sludge disposal would need to be addressed perhaps through mechanisms other than land spreading e.g. through incineration.	



Wastewater and industrial discharges		
Submission Reference No.	Issues Identified	Response
SE_SWMI_003 SE_SWMI_009	Run a public information campaign providing details about substances, which are not effectively removed by wastewater treatment plants	The need for additional research in this area has been identified. The results of the research may be used to inform awareness raising programmes.
SE_SWMI_003 SE_SWMI_009	There is a lack of confidence in local authority policing of Section 4 licences for smaller industrial discharges.	Applications for licenses under the Water Pollution Acts 1977 and 1990 are advertised and members of the public can make submissions. Following the granting of a license, members of the public may appeal the license or any of its conditions. Monitoring records of licenses are available for inspection by the public. It is proposed that offices will be set up in each River Basin District. One of the roles of the offices will be to support and co-ordinate the issue of Section 4 licenses by the constituent local authorities.
SE_SWMI_008	Request that detailed studies of the vulnerability of groundwater and general water quality from licensed discharges be completed and that full consideration be given to these findings when the review of the NAP takes place.	The National Water Framework Directive monitoring programme commenced in January 2007. This includes monitoring of surface waters and groundwater. Using data from this and other programmes all surface waters and groundwater bodies will be classified and the classifications will be included in the River Basin Management Plans. Following publication of the Plans there will be a review of all licensed discharges taking account of the new environmental quality standards. The review of the Nitrates Action Plan in 2009 will take account of the monitoring results and the new environmental quality standards.
SE_SWMI_009	Increased penalties should be imposed for breach of IPPC licence.	Penalties are set in legislation. Summary conviction in the District Court has smaller penalties than conviction on indictment in the Circuit Court where penalties can be up to $\in 1$ million.
SE_SWMI_009	Felt that the report does not adequately address the disposal of sewage sludge, cumulative effects of discharges, increased use of food macerators in domestic kitchens, problems with pharmaceutical and personal care products present in trace amounts, detergent use and discharges.	<i>'Water Matters'</i> did not set out to be a comprehensive report on all water issues. Its aim was to identify significant water management issues and seek the response of the public. When the River Basin Management Plans are being written the additional issues brought forward during the consultation will be considered.
SE_SWMI_012	Waste Water Treatment Plants (WWTP) discharges are causing a problem on the River Barrow.	The National Programme of Measures (POMS) study on Municipal and Industrial Regulations has identified waters at risk of failing the objectives of the WFD as a result of WWTP and industrial discharges. This allows for a prioritisation process where a priority rating is placed on each treatment plant based on its impact on the waterbody, whether



Wastewater and industrial discharges		
Submission Reference No.	Issues Identified	Response
		discharge to a sensitive area (e.g. a pearl mussel catchment or a nutrient sensitive river), the available dilution/assimilative capacity of the receiving water and the capacity for treatment at the plant. Detail of all work that was carried out in the project will be available as a background document to the draft River Basin Management Plan (RBMP).
SE_SWMI_015	There is a shortfall in the data available on WWTPs.	Licensing of WWTPs has come in under the Waste Water Discharge (Authorisation) Regulations S.I. No. 684 of 2007 and more data will be available through this licensing programme.
SE_SWMI_016	Outflow from WWTP should go through a pebbled reed bed system before it reaches the main waterway.	All methods of treating effluents will be considered and the most suitable technique used which may include reed-bed systems.
SE_SWMI_017	A pilot study in older parts of a town should be undertaken to assess the task of separating the existing combined sewer systems.	In the design of new sewerage schemes storm water and sewage are kept separate. In old, combined schemes separation of storm water from sewage shall be included in the operational and maintenance programmes.
SE_SWMI_017	Surface water sewers should be laid with any development to by-pass the older combined sewer networks.	In the design of new sewerage schemes storm water and sewage are kept separate.
SE_SWMI_017	Solids should be screened from storm water overflows.	Under the Waste Water Discharge (Authorisation) Regulations all storm water overflows will also be licensed and monitored. It is now policy to screen all storm water overflows and to undertake screening when improvements are ongoing.
SE_SWMI_017	Training and information should be given to SME's on the Local Government Act (Water Pollution) and it's implications.	Training and education programmes will form part of the implementation of the WFD.
SE_SWMI_017	A study on the viability and a risk assessment of small streams as receiving water for rural development should be carried out.	The SIMCAT Project (part of the SWRBD Municipals and Industrial Regulations study) will give information on the assimilative capacity of rivers.
SE_SWMI_017	The cost of wastewater treatment has not received the profile it requires.	The need for additional research in this area has been identified. The results of the research may be used to inform awareness raising programmes.
SE_SWMI_017	Suggested a charge for wastewater treatment.	A system is in place to charge all commercial users for wastewater treatment. It is government policy not to charge domestic users for water or wastewater treatment.



Wastewater and industrial discharges		
Submission Reference No.	Issues Identified	Response
SE_SWMI_018	Strict licensing and proper monitoring by the EPA was	Licensing of WWTPs has come in under the Waste Water Discharge
	suggested.	(Authorisation) Regulations S.I. No. 684 of 2007.
SE_SWMI_018	No WWTP should be sited on flood plains or in areas	Amendment of the Planning and Development Act will be necessary,
	where inundation or accidental spillages could result in	requiring explicit consideration of the objectives established for waters
	pollution of waterbodies.	in the river basin management plans.
SE_SWMI_018	Industrial and municipal plants discharges should not be	Licensing of WWTPs has come in under the Waste Water Discharge
	biologically, chemically or thermally different to the	(Authorisation) Regulations S.I. No. 684 of 2007. Also new regulations
	receiving water.	are being drawn up by DEHLG that will set new water quality standards.
		All licenses will have to comply with these standards to ensure compliance with the aims of the WFD.
SE_SWMI_018	Not enough emphasis is put on SuDS plus other	SuDs and other alternative new methods of treatment will be encouraged
SE_SWMI_018 SE_SWMI_024	biological and constructed forms of pollution	through their incorporation into county development plans as they are
	attenuation methods.	reviewed.
SE_SWMI_021	Waste discharges to the River Slaney were noted during	Licensing and upgrade of WWTPs should improve the water quality and
	the summer to be causing pollution.	reduce the discharges to the River Slaney. There are a number of WWTP
		in the catchment due for improvement under the Water Services
		Investment Programme 2007-2009.
SE_SWMI_020	A water pollutants trading scheme should be	For a trading scheme to work a number of conditions would have to be
	investigated as a possible way to achieve good status.	met. The following are some of these conditions:
		1. It would be accessed to be able to access the accimilation
		1. It would be necessary to be able to measure the assimilative capacity of the receiving water. This would require a good
		record of the flow or level (to estimate the volume) of the water
		and a historic record of the water quality. While we have
		relatively good flow or level records for many of our waters we
		do not have comprehensive records. Likewise, we have good
		records of water quality in many waters but not all.
		2. All of the discharges to the receiving water would have to be
		measurable and be measured. Discharges fall into two
		categories, point and diffuse. All point discharges can be
		measured and most are. However, diffuse discharges are not
		easily measurable. They arise from land use activities such as
		agriculture, forestry, construction activities and the disposal of
		septic tanks into groundwater. In Ireland diffuse discharges



Wastewater and industrial discharges		
Submission Reference No.	Issues Identified	Response
		make up between 75% and 95% of the "pollution" load entering our waters.3. A pricing system would have to be established, in the absence of the data referred to above this would be impossible.
SE_SWMI_018	Suggested that financial and administrative support for all WWTPs affecting protected areas has to be put in place.	Water Services Investment Programme gives the financial support to upgrade WWTPs.
SE_SWMI_020	A risk assessment of the leakage from sewage pipes should be undertaken.	Leaks from sewers can pollute groundwater and surface waters. It is currently a legal requirement that local authorities provide 'fit for purpose' water and waste water distribution and treatment systems. Additionally, a measure that may arise from the study of municipal and industrial discharges may be the requirement for sewerage schemes to have Performance Management Systems in place which will require operational and maintenance programmes. This should assist in identifying any leaks in the system more efficiently.
SE_SWMI_024	Introduce legislation that makes sewage infrastructure mandatory prior to development.	Amendment of the Planning and Development Act will be necessary, requiring explicit consideration of the objectives established for waters in the river basin management plans.
SE_SWMI_024	Requirement that all new urban treatment plants provide tertiary level treatment and upgrade of existing plants to that standard.	Under the Water Services Investment Programmes WWTPs are being upgraded. Tertiary treatment is required when, due to the sensitivity of the receiving water, a higher standard of treated effluent is required. There are different types of tertiary treatment. One example is the exposure of secondary treated effluent to ultra violet light to inactivate microbiological pathogens. This type of tertiary treatment is used to protect bathing and shellfish waters. Another example is the use of chemicals to remove phosphate. This is used if the discharge is to waters that are eutrophic and the nutrient causing the problem is phosphate. In the case of many discharges there would be no benefit in providing tertiary treatment.
SE_SWMI_024	Reform the education of engineers to include ecological principles.	A series of education programmes are being prepared for all local authority officers. Training and education programmes will form part of the implementation of the WFD.
SE_SWMI_024	Sewage discharges into the Tay River are effecting the water quality in Stradbally Cove, Co. Waterford	Licensing and upgrade of WWTPs should improve the water quality and reduce the discharges to the River Tay. Tramore and Stradbally WWTPs



Wastewater and industrial discharges		
Submission Reference No.	Issues Identified	Response
	similarly at Tramore Pier and at Dunhill Village, Co.	are due for improvement under the Water Services Investment
	Waterford.	Programme 2007-2009.

3.2.2 Landfills, quarries, mines and contaminated lands

Landfills, quarries, mines and contaminated lands		
Submission Reference No.	Issues Identified	Response
Landfills		
SE_SWMI_009	Felt that the grouping of activities in this section was inappropriate because of the varied impacts and different requirements for responses.	The SWMI report was primarily a non-technical public consultation document for the general public and this necessitated a simplistic approach in combining pressures. Each pressure will be treated separately in the River Basin Management Plan.
SE_SWMI_003 SE_SWMI_009	Specific timescales must be set for the characterisation and remediation of historic landfill sites.	
SE_SWMI_003 SE_SWMI_009	Closed down landfills should always be capped.	The EPA's guidance to local authorities on identification and remediation of historical and illegal landfills covers all of these issues. It is intended
SE_SWMI_002	Concern over the lack of response to the clean up of historic illegal landfill sites. Recommend water quality monitoring to be completed where illegal dumping has occurred.	that this guidance will form part of the program of measures under the River Basin Management Plan.
SE_SWMI_009	It was felt that the focus of this section was on dangerous substances and that other issues were not adequately addressed e.g. sediment and rock dust from quarrying, impacts of temperature variations between discharge waters and receiving waters etc.	It is intended that these issues will be addressed in the River Basin Management Plans.
SE_SWMI_005	The provision of environmental awareness training to staff and management of deep dry worked excavations and wet worked gravel dredging operations should be mandated by way of planning condition as should the presence of an Environmental Management System for the site operations to include emergency response procedures as may be necessary.	These are specific "planning" issues, however it is intended to include a water education awareness program as part of the program of measures and that issues like this would be included.
SE_SWMI_009	Current assessments of vulnerability of groundwater	River Basin Management plans including all programs of measures will



Landfills, quarries, mines and contaminated lands		
Submission Reference No.	Issues Identified	Response
	to contamination from new landfills do not incorporate variations in rainfall patterns associated with climate change.	under go "Climate Proofing".
SE_SWMI_015	Should include stricter controls, enforcement and monitoring.	There are supplementary and additional measures proposed under these areas to ensure compliance with the aims of the WFD.
SE_SWMI_017	It is suggested that a pilot study be undertaken to quantify the extent of the problem and the resources required to manage the issues, including the costs and the most suitable source of funding.	The RBMP economic study that is currently being carried out will investigate the resources and costs necessary for the implementation of the WFD.
SE_SWMI_017	It is considered that industry organisations e.g. Construction Industry Federation should take a greater degree of responsibility in ensuring that it's members are not only aware of the regulations and risk, but actually comply with the regulations.	Training and education programmes will form part of the implementation of the WFD.
SE_SWMI_018	For landfills in highly sensitive areas there should be containment of leachate.	Further investigation of leachate has been suggested as part of the Dangerous Substances Programme of Measures Study. It is now a legal requirement to line all landfills and provide treatment of leachate.
SE_SWMI_018	Illegal landfills need remediation and restoration.	Manuals on Landfill Restoration and Aftercare have been published by the EPA.
Quarries		·
SE_SWMI_009	ICF noted the significant level of demand of aggregates within Ireland and the current lack of	
SE_SWMI_005	capacity within local authorities to license and regulate quarries effectively with the consequence of significant amounts of aggregates being supplied from unlicensed sites.	Local authorities have always sought to apply legislative requirements evenly and fairly to all. Programs are in place by all local authorities to identify and bring all non compliant sites up to the required standard.
SE_SWMI_005	Expressed concern that demand for aggregates would be met by unauthorised facilities if legitimate industry is unnecessarily restricted in maximising extraction from permitted sites through controlled deep excavation below the water table.	
SE_SWMI_003	Identified the potential conflict of interest with local authorities licensing and regulating quarries and often	The comments are noted.
SE_SWMI_009	being substantial customers as well.	



Landfills, quarries, mines and contaminated lands		
Submission Reference No.	Issues Identified	Response
SE_SWMI_005	Highlighted that Water Matters reports specified that quarries of 4 years or older must register with local authorities in Ireland under the Planning and Development Act. They note that this process has now concluded with the exception of a small number of appeals to An Bord Pleanala.	The comments are noted.
SE_SWMI_009	A significant number of unauthorised quarries have never closed down which is felt to be a problem of lack of enforcement.	Programmes are in place by all local authorities to identify and bring all non compliant sites up to the required standard.
SE_SWMI_018	Quarries and mines are users of large quantities of water and are a threat to surface water and aquifers.	Abstractions from mines are controlled under the Planning Acts. The ERBD are investigating abstraction nationally and licensing of extractions will be a measure under the WFD. Mines operate under licensing from DCMNR.
SE_SWMI_018	Quarries and mines discharges should not be different (Chemically, biologically or thermally) from receiving waters.	New regulations are being drawn up by DEHLG that will set new water quality standards. All licenses will have to comply with these standards to ensure compliance with the aims of the WFD.
SE_SWMI_018	Inert material on quarry machinery is deposited on roads, washed into watercourses and contaminates rivers and lakes and damages spawning redds. Requirement for improved facilities and more robust means of containment.	It is standard practice to include wheel washing on all quarry sites under the Planning Acts.
Mines		
SE_SWMI_009	Felt it was an omission that only issues with historic mine sites were dealt with in the report.	Pressures not only, from historical but existing mining sites will be addressed under River Basin Management Plans.
SE_SWMI_009	There is inadequate planning for the "end of life" phase of current mining operations which can mean that potential ongoing negative effects of these operations are not anticipated.	Closure plans for existing mines are a collaborative process involving the Department of Communication and Natural Resources, the Environmental Protection Agency and the relevant Local Authority. Current environmental standards are applied to all closure plans.
SE_SWMI_009	Significant bonds should be required of all current	This is a requirement under current licensing.
SE_SWMI_003	mining operations for rehabilitation of old sites.	
SE_SWMI_018	Quarries and mines are users of large quantities of water and are a threat to surface water and aquifers.	Abstractions from mines are controlled under the Planning Acts. The ERBD are investigating abstraction nationally and licensing of extractions will be a supplementary measure under the WFD. Mines operate under licensing from DCMNR.



South Eastern River Basin District

Landfills, quarries, mines and contaminated lands		
Submission Reference No.	Issues Identified	Response
SE_SWMI_018	Quarries and mines discharges should not be different	
	(Chemically, biologically or thermally) from receiving	quality standards. All licenses will have to comply with these standards to
	waters.	ensure compliance with the aims of the WFD.
SE_SWMI_018	Inert material on quarry machinery is deposited on	It is standard practice to include wheel washing on all quarry sites under
	roads, washed into watercourses and contaminates	the Planning Acts.
	rivers and lakes and damages spawning redds.	
	Requirement for improved facilities and more robust	
	means of containment.	
Contaminated land		
SE_SWMI_003	Specific timescales must be set for the characterisation	The Environmental Protection Agency are in the process of preparing
	and remediation of contaminated land and the process	Guidance for Local Authorities.
SE_SWMI_009	should be overseen by an independent body to ensure	
	appropriate assessment of local authorities' own sites.	



3.2.3 Agriculture

Agriculture	Agriculture		
Submission Reference No.	Issues Identified	Response	
SE_SWMI_009	The Nitrates Regulations are inadequate to address nutrient enrichment in specific areas and soil P levels are set too high in the Regulations for some regions. Account must also be taken of areas that are naturally high in nitrates (e.g. Burren River). The new phosphate regulations in Northern Ireland should be examined for possible application. In particular the requirement that farmers must prove crop P need with a soil test, or else use zero P fertiliser.	The maximum fertilisation rates in the European Communities (Good Agricultural Practice for the Protection of Waters) Regulations (commonly referred to as the Nitrates Regulations) were based on sound scientific evidence. For instance the phosphorus index system for grassland was revised when the Regulations were introduced. The rate of phosphorus that a farmer can apply to grassland depends on the stocking rate, the P index of the soil, the zone the farm is located in, and the amount of concentrates fed to the livestock. Currently all soil is assumed to be phosphorous index 3 unless a soil test indicates otherwise thereby limiting the amount of phosphorous that may be applied to maintain levels. The effectiveness of the National Action Programme under these regulations is being monitored and evaluated by various means including	
		an agricultural mini-catchment programmethat has been undertaken by Teagasc. The Nitrates Action Programme will be reviewed in 2009 in line with the findings of this monitoring and evaluation.	
SE_SWMI_009	Felt that little, if any action will be implemented to control the impacts agricultural pollution of waters beyond the implementation of the Nitrates Regulations.	A monitoring and evaluation programme is in place to determine the effectiveness of the National Action Programme and attempts to measure how changes in farm management practices affect water quality. Investigation will also be completed into how much the current National Action Programme will contribute to meeting the objectives of protected areas such as water dependent Special Areas of Conservation, shellfish, bathing and drinking water areas. Additional more stringent measures may be needed in these areas which may include the establishment and enforcement of agricultural bye-laws. Supplementary actions may also need to be undertaken in other areas to address agricultural pollution.	
SE_SWMI_003	The Nitrates Regulations must be supported through the establishment and proper enforcement of agricultural bye laws.	The European Communities (Good Agricultural Practice for the Protection of Waters) Regulations will go a long way to addressing agricultural pollution, however after examination of its effectiveness modifications may be required.	



Agriculture		
Submission Reference No.	Issues Identified	Response
SE_SWMI_008	Noted that the Nitrates Regulations adequately represent farmers' contribution to the achievement of good water status by 2015.	The National Action Programme under the European Communities (Good Agricultural Practice for the Protection of Waters) Regulations will go a long way to addressing agricultural pollution, however after examination of its effectiveness modifications may be required.
SE_SWMI_008	Felt there were too many inspection bodies and that full inspection and enforcement responsibility should	Local Authorities are responsible for carrying out inspections of farm holdings for the purposes of the European Communities (Good
SE_SWMI_003	be passed to DAFF.	Agricultural Practice for the Protection of Waters) Regulations. These Regulations are presently being amended requiring inter-alia that the
SE_SWMI_009	Enforcement and monitoring of the Nitrates regulations should be removed from DAFF to an independent body. If this is not politically feasible enforcement should be overseen by the EPA's Office of Environmental Enforcement.	Environmental Protection Agency make recommendations and give directions to a Local Authority in relation to the monitoring and inspections to be carried out. Work is also currently progressing to develop a protocol ensuring consistent inspection is completed by all local authorities. As part of the Single Payment Scheme farmers are required to observe 19 Statutory Management Requirements (SMRs) set down in EU Directives and Regulations on the environment, public, animal and plant health and animal welfare and to maintain land in Good Agricultural and Environmental Condition. This is what is known as cross-compliance. One of the SMRs is the Nitrates Directive. The Department of Agriculture, Fisheries and Food is responsible for on-farm cross compliance checks for the purposes of the Single Payment Scheme.
SE_SWMI_003	Inspections under the Nitrates Regulations should be on the spot, without notice.	Local Authorities are responsible for carrying out inspections of farm holdings for the purposes of the European Communities (Good
SE_SWMI_009	No more than 3 days notice should be provided for inspections.	Agricultural Practice for the Protection of Waters) Regulations. Local Authorities do not, generally, give any advance notice when carrying out such inspections.
		Under current Regulations provided that the purpose of the control is not jeopardised the Department of Agriculture Fisheries and Food may give up to 14 days notice for land eligibility and cross-compliance inspections involving Statutory Management Requirements (SMRs) other than those related to animal identification and registration, food, feed, and animal welfare. For checks involving cattle identification and registration the maximum advance notice is 48 hours provided that the purpose of the control is not jeopardised. For SMRs dealing with feed, food and animal



Agriculture		
Submission Reference No.	Issues Identified	Response
		welfare no advance notice may be given. In practice because of a requirement to carry out all inspections under the Regulations at the same time, all cross-compliance inspections, including those relating to Nitrates are carried out without notice. However the farmer is given the opportunity of postponing those elements of the inspection other than these matrices to find and animal walfare for a further 48 hours.
SE_SWMI_003	Review of the Nitrates Regulations through mini catchment studies must be completed in good time, so	those relating to food, feed and animal welfare for a further 48 hours.The effectiveness of the current National Action Programme under the Nitrates Directive is currently being monitored and evaluated by various
SE_SWMI_009	that additional actions that are seen as necessary can be incorporated into the River Basin Management Plan.	means including an agricultural mini-catchment programme that has been undertaken by Teagasc. As the mini-catchment programme has only recently got underway it is unlikely that there will be any significant output from the programme that could be incorporated in the forthcoming River Basin Management Plans.
SE_SWMI_008	Request that mini catchment studies similar to those being completed to assess the effectiveness of the NAP be completed for other industry types.	Catchment models have been developed to quantify the input of pollution from point sources such as wastewater treatment works and industries with licenses to discharge.
SE_SWMI_009	Farmers in REPS must be encouraged to maintain a farm nutrient balance.	The Rural Environment Protection Scheme (REPS) is a scheme designed to reward farmers for carrying out their farming activities in an environmentally friendly manner and to bring about environmental improvement on farms. Farmers in REPS must comply with 11 basic measures, one of which is to follow a farm nutrient management plan prepared for the total area of the farm. Failure to comply with these basic measures will result in penalties and a consequent loss of part or the whole payment for the year, farm holders who incur penalties will be subject to increased inspections.
SE_SWMI_003	Controls should be placed on the amount of fertiliser that can be purchased. Purchases should only be allowed when justified by nutrient management plans.	Under the EC (Good Agricultural Practice for the Protection of Waters) Regulations farm holders are required to record the quantities and types of chemical fertilisers moved on to or off the farm holding and must retain records of purchase. Failure to keep adequate records can result in a reduction in the single farm payment.
SE_SWMI_003	Additional financial incentives must be provided to encourage and promote environmentally sensitive farming.	Additional financial support for agri-environmental schemes, farm storage facilities or technology solutions will be considered in specific catchments.
SE_SWMI_008	Seek re-opening of the Farm Improvement Scheme by DAFF.	20



Agriculture			
Submission Reference No.	Issues Identified	Response	
SE_SWMI_008	Increase in grants available for rainwater harvesting.	An awareness raising programme will be developed as part of the River Basin Management Plan to promote sustainable water use and encourage rainwater harvesting by all users.	
SE_SWMI_009	Investigation into the potential to use the Rural Development Programme (Department of Community, Rural & Gaeltacht Affairs, 2006), to introduce supplementary measures, should be completed.	The Government is committed to implementing a strategy for rural development on the basis of an inclusive approach to sustainable development, the integration of policies, a regional dimension and partnership with the rural community. A number of funding streams are available under this programme including CLÁR (Ceantair Laga Árd-Riachtanais). CLÁR provides funding and co-funding to Government Departments, State Agencies and Local Authorities in accelerating investment in selected priority developments. These investments support physical, economic and social infrastructure across a variety of measures. The measures introduced under the programme reflect the priorities identified by the communities in the selected areas whom the Minister consulted at the outset. Areas targeted under the CLÁR programme includes parts of Counties: Carlow, Cavan, Clare, Cork, Donegal, Galway, Kerry, Kilkenny, Laois, Limerick, Longford, Louth, Mayo, Meath, Monaghan, Offaly, Roscommon, Sligo, Tipperary, Waterford, Westmeath, Wicklow and all of County Leitrim.	
SE_SWMI_003	Alternative disposal mechanisms for slurry (and municipal sludge) other than land spreading need to be provided.	The Department of Agriculture, Fisheries and Food supported the development of new/emerging technologies by providing grant aid to farmers in 2006 for pilot projects under the Scheme of Investment Aid for Demonstration On-Farm Waste Processing Facilities.	
SE_SWMI_009	The use of bio-digesters for the disposal of slurry should be encouraged and funding made available.	A bio-energy scheme from Sustainable Energy Ireland provides grants for installation of Combined Heat and Power plants fuelled by biogas from anaerobic digestion. The scheme includes a start-up grant and a guaranteed price of at least 12 cent per kWh. The scheme has a budget of	



Agriculture		
Submission Reference No.	Issues Identified	Response
		up to €8 million and will provide up to 30% investment grant support for eligible projects. Further details can be found on www.sei.ie/bio_chpgrants.
SE_SWMI_003	The physical disturbance to water bodies, created by agricultural activities (e.g. animal watering sites and	The physical disturbance to water bodies from agricultural activities was addressed in the physical modifications section of ' <i>Water Matters – Have</i>
SE_SWMI_009	uncontrolled access), is not addressed in the document and must be regulated. The Land Drainage Act still allows for the drainage and 'reclamation'/ infilling of wetlands.	<i>your say!</i> ' reports. Farmers in Rural Environmental Protection Schemes are required to fence off lakes and water courses to prevent stock trampling. Supplementary measures to tackle overgrazing and stock trampling in specific areas will be considered as part of the Programme of Measures. land drainage activities.
SE_SWMI_009	Clarify with the relevant statutory agencies the responsibilities for vegetation along the edge of water	Local authorities maintain Drainage Districts for flood alleviation and land drainage and the Office of Public Works maintains the Arterial Drainage
SE_SWMI_003	bodies.	Scheme. However there are large areas where there is no statutory body with a river maintenance responsibility and in this case it is the responsibility of the landowner. In accordance with Ireland's Flood Policy 2004, the Office of Public Works (OPW) will be taking a proactive role in assisting with flood risk management issues where no authority is deemed responsible. There will be a designation process where high flood risk channels can be designated by the OPW for maintenance functions to reduce flood risk. Legislative change is required for this to work fully so it will a number of years before it is established.
SE_SWMI_003	The cleaning of slurry tanks, spreader and of spreading equipment from water bodies should be prohibited.	It is an offence under the Local Government Water Pollution Acts 1977 and 1990 to cause or permit any polluting matter to enter waters. This includes the washing of slurry tanks, spreading and spraying equipment.
SE_SWMI_018	Washing out of sprayers near watercourses should be prohibited.	Incidences should be reported to the local authority.
SE_SWMI_008	The IFA seeks a cost benefit analysis of any further increases in buffer zones for fertilizer spreading over and above the requirements of the Nitrates Directive.	Socio-economic studies are being completed as part of the mini-catchment studies to evaluate how cost effective measures under the current National Action Plan have been. Modifications to measures will be identified where evidence indicates that water quality targets may not be achieved.
SE_SWMI_018	Buffer zones and fencing of stream bank zones play a vital role in limiting nutrient input to watercourses and should apply under the Single Payment Scheme.	The Nitrates Action Plan includes the use of buffer zones and will apply under the Single Payment Scheme. Under Cross Compliance the implementation of the Nitrates Action Plan is a Statutory Management Requirement and there is also a requirement to maintain the land in good



Agriculture		
Submission Reference No.	Issues Identified	Response
		agricultural and environmental condition.
SE_SWMI_018	Slurry should only be spread in the correct weather conditions.	The Nitrates Action Plan sets out the weather conditions that slurry can be spread in.
SE_SWMI_018	Land Drainage Act needs to be reviewed to meet requirements of the WFD.	A licensing or registration system is being proposed for all physical modifications along with other additional POMS to control land drainage.
SE_SWMI_018	New drainage schemes and modification should need planning referred through the NPWS and fisheries boards.	A licensing or registration system is being proposed for all physical modifications along with other additional POMS to control land drainage.
SE_SWMI_018	Monitoring effectiveness of on-farm practices and pollution preventions controls was suggested.	Mini-catchments study will investigate the effectiveness of the implementation of the Nitrates Action Plan on improving water quality.
SE_SWMI_018	Blood tanks and buildings runoff from knackeries should be maintained and contained, with inspections.	Discharges from knackeries are controlled under the Water Pollution Act. New regulations are being drawn up by DEHLG that will set new water quality standards. All licenses will have to be reviewed to ensure compliance with these standards and the aims of the WFD.
SE_SWMI_017	More investigation is needed on the values of the nitrate level in a stream.	The WFD monitoring programme begun in January 2007. This monitoring programme will capture the whole picture in regards water quality as biological, general conditions, chemical and hydromorphology elements are being analysed along with nitrate.
SE_SWMI_017	The Nitrate Directive is perceived as being targeted at livestock farmers, but greater emphasis is probably required on the tillage sector.	The Nitrates Directive covers all sources of nitrates from agriculture.
SE_SWMI_017	The plan should include a target, by percentage, for the number of farmers in the REPS scheme.	A series of measures are being proposed to ensure the implementation of the WFD and to improve water quality. The suitability of these measures in particular areas will be examined. REPS is one of a number of possible measures.
SE_SWMI_015	Breaching of Nitrates Regulations and non compliance with REPS by farmers is taking place.	Cross-Compliance inspections will ensure implementation of the Nitrates Action Programme. Provision of the Farm Waste Management Plan will improve implementation of the Nitrates Regulations.
SE_SWMI_015	Measures to control any breaches in the rules need to be strengthened- use of Codes of Practice and voluntary schemes is not sufficient.	Nitrates Action Programme is transposed into legislation by the Nitrates Regulations.
SE_SWMI_016	Use of pebbled reed bed system to filter runoff from farms was suggested.	All methods of treating run-of will be considered and the most suitable technique used which may include reed bed systems.



Agriculture		
Submission Reference No.	Issues Identified	Response
SE_SWMI_024	Increased monitoring of farm water pollution was	Mini-catchments study will investigate the effectiveness of the
	suggested.	implementation of the Nitrates Action Plan on improving water quality.
SE_SWMI_013	Revise farm education practices	Teagasc are involved in training and education of farmers. Training and
SE_SWMI_017		education programmes will form part of the implementation of the WFD.
SE_SWMI_024		
SE_SWMI_024	Revise the IFA representation on the River Basin	The Co-opted members of the River Basin Advisory Councils come from
	Advisory Councils.	the following sectors/pillars:
		Agriculture
		Business/Economic
		Recreational/Angling
		Social/Community
		Professional / academic
		Environmental Group – Water Quality or Aquatic
		As stipulated in the European Communities (Water Policy) (Amendment)
		Regulations, 2005. The IFA represent the Agricultural sector on the
		Advisory Councils.

3.2.4 Wastewater from unsewered properties

Wastewater from unsewe	Wastewater from unsewered properties		
Submission Reference No.	Issues Identified	Response	
SE_SWMI_003	Guidance on best practice is ineffective unless it is transposed into regulations.	Agreed. There is an overall need to tighten controls on the siting, installation and maintenance of onsite wastewater systems with national standardisation of site suitability testing and allowable practice.	
SE_SWMI_003	A national system of licensing for proprietary systems with an inspection regime, clear responsibility for owners and effective penalties must be introduced.	Proprietary systems are currently certified under the Agreement System. Their suitability will often be site specific and they will normally be assessed on this basis.	
SE_SWMI_009	Percolation tests must be made mandatory and be completed by independent qualified scientists (with a charge included in the planning application fee). There should also be a system of accreditation and licensing for septic tank installation companies and sludge removal operators.	 wastewater systems which include: Approval system for proprietary units. Establishment of a National / Local Register of approved, 	



Wastewater from unsewered properties		
Submission Reference No.	Issues Identified	Response
SE_SWMI_003	Highlighted the importance of planning controls that	 Local Authorities – based on the EPA updated Guidance document for Single House Treatment Systems. Certification of onsite wastewater treatment system installation. The measures include recommendations for Bye Laws relating to duties of owners of onsite wastewater systems to ensure maintenance and regular de-sludging. Sludge removers already come under control under the Waste Management Act and must hold a current licence to remove septic tank sludge for disposal from systems. Pathway risk mapping combining the geology, subsoil permeability and
SE_SWMI_009	restrict the building of unsewered properties in areas where the geology and soil are unsuitable for percolation-based treatment systems. There should be improved and more integrated planning for the siting of septic tanks.	aquifer bedrock type with regard to suitability of general location for on site wastewater treatment systems will be provided to each Local Authority. This will indicate generally high risk areas for the location of such systems. However, even where risk mapping indicates a lower risk category, detailed site investigation by qualified assessors, in accordance with the requirements of the updated EPA Guidance document for single house systems, will still be required as part of the planning process to confirm site suitability. The pathway risk mapping will be combined with a pressure layer map of existing system locations to identify high risk areas which should be targeted for inspections by the Local Authorities and necessary upgrading as appropriate.
SE_SWMI_009	Seek clarity and elaboration on the statement that "Legislation will be amended to clarify and elaborate the statutory basis for the licensing of discharges to soil".	requires a general prohibition on direct discharges of pollutants into groundwater except where they are subject to a specified system of prior authorisation and provided the discharges don't compromise the achievement of the objectives established for that body of groundwater. Irish legislation is being revised and updated to comply with these requirements.
SE_SWMI_008	Opposed to excessive restriction on the siting of new	Where detailed site investigation for an onsite wastewater system



Wastewater from unsewe	Wastewater from unsewered properties		
Submission Reference No.	Issues Identified	Response	
	housing for farming families where appropriate systems are installed. Recommend that funding is made available for rural dwellers to upgrade their septic tanks.	indicates that the location fully complies with the planning requirement and meets the requirements of the EPA updated Guidance for Single House Systems then this would not form the basis for a restriction on development. The provision of financial incentives to upgrade existing septic tanks where required is supported by RBD Advisory Councils. This is a policy decision for National Government.	
SE_SWMI_003 SE_SWMI_009	All proprietary treatment systems should deliver tertiary treatment.	Research undertaken through the EPA Environmental Research Technical Development Initiative (ERTDI) Programme has indicated that a correctly installed septic tank or proprietary treatment system with a correctly installed percolation area on a suitable site will	
		adequately treat wastewater to the required standard without the need for tertiary treatment. However, where proprietary treatment systems result in a discharge to surface waters or where the area is particularly sensitive, such as a groundwater dependent ecosystem for example, then tertiary treatment	
		may be appropriate. The requirement for tertiary treatment will be site specific.	
SE_SWMI_003	If sewage infrastructure is installed near an unsewered property connection should be offered at a reduced rate or should be free.	The requirement for properties adjacent to existing sewer networks to connect is included in the measures for onsite wastewater treatment systems. The provision of financial incentives is supported by the RBD	
SE_SWMI_009	New properties near existing infrastructure should be required to connect to it.	Advisory Councils. This is a policy decision for National Government.	
SE_SWMI_003	Noted the difficulties with biocycle units, some of which are unsuited to use in irregular habitation	All proprietary treatment systems are biological systems and will reduce in efficiency through long periods of disuse. Large scale systems are	
SE_SWMI_009	situations (i.e. holiday homes), as they are subject to "shock loading" when used.	subject to control by licence under the Local Government (Water Pollution) Acts 1977 and 1990. Single house systems are generally controlled under the planning requirement for maintenance contracts for such systems. Stricter enforcements of the maintenance contracts is required and will be recommended in the measures programme.	
SE_SWMI_003	Awareness raising is required on the effects of household chemicals on septic tank functioning e.g.	National and Local Awareness campaigns.	
SE_SWMI_009	bleach.	Voluntary agreements exist to have phosphate free detergents with	



Wastewater from unsewe	Wastewater from unsewered properties		
Submission Reference No.	Issues Identified	Response	
	Phosphates should be banned from domestic cleaning products.	major suppliers for certain applications.The public awareness programme will highlight this and other issues.In a well designed, well located and well sited percolation area phosphorous will be largely removed by the percolation process.	
SE_SWMI_003	Local Authorities should encourage alternative wastewater treatment systems for unsewered properties,	Much research has been undertaken on the use of alternative systems such as wetlands and reed beds. Some limitations have been identified	
SE_SWMI_009	such as wetlands and reed beds.	such as reduced uptake of nutrients during dormant plant growth periods and not all sites may be suitable for such systems. The use of	
SE_SWMI_016		such systems will be site specific and will be assessed on a case by case basis and approved as appropriate.	
SE_SWMI_009	Strict control on land spreading of septic tank contents.	An operator involved in the removal of septic tank sludges must be an approved Waste Contractor under the Waste Management Act. Septic	
SE_SWMI_003		tank sludges must be treated before disposal and are generally treated in Urban Waste Water Treatment Plants. Local Authorities are including septic tank sludge into their Waste Management Plans.	
		Spreading of sewage sludge on agricultural land is controlled by the Waste Management (Use of Sewage Sludge in Agriculture) (Amendment) regulations 2001 and also under Local Authority Sludge Management plans.	
SE_SWMI_015 SE_SWMI_017	One Off housing –planning permission in unsuitable areas is an issue.	The WRBD POMS study on On-Site Waste Water Treatment Systems (OSWTS – which comprise of conventional septic tanks and on-site proprietary systems) has produced a methodology that identifies the risk to surface and groundwater. The methodology integrates soil and hydrological parameters with mapped OSWTS pressures, pathways and receiving water bodies to identify areas that are not suitable for conventional septic tanks. It is proposed that planning controls adopt this new risk assessment procedure. Detail of all work that was carried out in the project will be available as a background document to the draft RBMP.	
SE_SWMI_015 SE_SWMI_017 SE_SWMI_018	Proper construction and regular maintenance of on site waste water treatment plants is necessary.	Ministerial Guidance on the development of the RBMP has suggested that section 70(2) of the Water Services Act 2007 places a duty of care on owners of premises to ensure that their septic tanks ("treatment systems") are kept so as not to cause a risk to human health or the	



Wastewater from unsewered properties		
Submission Reference No.	Issues Identified	Response
		environment, or nuisance through odours. (Regulations will be made by the Minister during 2008/2009 to give legal effect to this provision.) This should lead to proper construction and maintenance.
SE_SWMI_017	An education programme within the Construction Industry Federation was suggested.	Training and education programmes will form part of the implementation of the WFD.
SE_SWMI_015 SE_SWMI_018	Actions must be enacted through legislation. Regulatory controls, involving certification must be put inplace and user guidelines are required.	Ministerial Guidance on the development of the RBMP has suggested that section 70(2) of the Water Services Act 2007 places a duty of care on owners of premises to ensure that their septic tanks ("treatment
SE_SWMI_017	Licensing of all except single house septic tanks is required.	systems") are kept so as not to cause a risk to human health or the environment, or nuisance through odours. [Regulations will be made by the Minister during 2008/2009 to give legal effect to this provision.] This should lead to proper construction and maintenance. Certification of Onsite Waste Water treatment plants is being proposed as a measure from the WRBD POMS study.
SE_SWMI_018	Consideration of soils, geology, surface water and groundwater must be taken into account for planning.	Under the WRBD POMS studies one of the basic measures that are proposed is that planning controls will be based on a new risk assessment procedure. The risk assessment will include consideration of soils, geology, surface water and groundwater.
SE_SWMI_018 SE_SWMI_024	Compost toilets and grey water harvesting –planning guidelines should recommend these in the guidelines.	As County Development Plans are reviewed the new plans will encourage more environmentally friendly sustainable practices such as the use of compost toilets and grey water harvesting.
SE_SWMI_018	Maps should be produced outlining unsuitable soils and vulnerable zones.	The WRBD POMS study is preparing maps of the areas unsuitable for on-site waste water treatment plants.
SE_SWMI_018	Inventory of existing sewage system of substandard quality.	The WRBD POMS has prepared maps of the existing on site waste water treatment plants.
SE_SWMI_020	All county development plans should be amended to include the finalised version of the new septic tank guidance.	This will be part of the POMS for the implementation of the WFD. County Development Plans will have to be integrated with the River Basin Management Plans.
SE_SWMI_020	A pilot programme on a DED basis should be undertaken to map and model the effect that septic tanks have on pollution levels- with particular effect on nitrogen based pollutants.	The WRBD study has included a pilot programme to examine the effects of on site waste water treatment plants.



Wastewater from unsewe	Wastewater from unsewered properties		
Submission Reference No.	Issues Identified	Response	
SE_SWMI_016	Grant aided system to test and replace septic tanks that	Grant aiding is a matter for government policy makers and will not be	
	are not working.	addressed in the RBMP. It has been proposed as a possible measure by	
		the WRBD study on On-site Waste Water Treatment systems.	
SE_SWMI_017	The lack of compliance with conditions and the absence	The study on OSWTS has produced a methodology that identifies the	
	of any planning control and enforcement is an issue.	risk to surface and ground water. The methodology integrates soil and	
		hydrological parameters with mapped OSWTS pressures, pathways and	
		receiving water bodies to identify areas that are not suitable for	
		conventional septic tanks. It is proposed that planning controls adopt	
		this new risk assessment procedure. Detail of all work that was carried	
		out in the project will be available as a background document to the	
		draft River Basin Management Plan.	
SE_SWMI_017	The plan should include a requirement that besides	It is not within the remit of the RBMP to do this.	
	publishing the number of planning applications the		
	authority should also publish inspections, the rates of		
	compliance, and actions taken on non-compliance.		
SE_SWMI_024	Suggested retraining of council staff in relation to	The WRBD is proposing that all inspections and assessments will be	
	planning for unsewered properties.	carried out by a trained assessor.	
SE_SWMI_024	Adoption of GSI criteria for the assessment of site	This will be part of the POMS for the implementation of the WFD.	
	suitability for septic tank systems.		
SE_SWMI_015	Pollution noted in surface and groundwaters in Co.	The issue of pollution from on site waste water treatment plants has	
	Wexford from unsewered properties.	been investigated by the WRBD on a national basis. POMS will be	
		proposed to alleviate pollution from unsewered properties.	

3.2.5 Forestry

Forestry		
Submission Reference No.	Issues Identified	Response
SE_SWMI_010	Felt the report was too negatively focused.	The National Forest Estate covers a substantial surface (10%) of the
	Noted the positive impacts of forestry:	country. It is generally located in the upland areas of catchments where
	• Riparian zone planting provides stability,	the smaller feeder streams which are important salmonid spawning and
	shelter and food for aquatic life	nursery habitat locations. Whereas there are many positive benefits from
	• Planting of buffer zones protects against	forests there may be a potential to impact on water quality if forest
	sources of pollution	operations are not carried out in a sustainable manner. This is done by the



Forestry		
Submission Reference No.	Issues Identified	Response
SE_SWMI_010	Noted concern about the issue of proportionality in the reports. The same space is allocated to forestry as wastewater and industrial discharges which are	 implementation of the Forest Service regulations which are mainly contained in its Code of Best Forest Practice, its Suite of Guidelines and the conditions attached to its various schemes and the licences which it issues. Much of the commercial forest estate in Ireland was planted in the early 1960s prior to the introduction of the current Codes of Practice. Buffer zones and silt control measures would generally not have been installed resulting in planting to stream banks. It is these forests which are now being felled to provide wood material. Their management is a potential source of pressure on receiving waters, While guidelines exist for the harvesting of these areas, their restocking is not subject to specific guidance but it must meet the current afforestation standards. Forestry measures for the River Basin Management Plans (RBMPs) include a recommendation for specific guidance for the management of these older forest stands which will include a suite of measures to be used on a case by case basis. The Forest Estate comprises 10% of the land area of the country and is sometimes located in sensitive areas of catchments. The potential for impact on water quality may be significant if not managed in a sustainable
	considerably more detrimental to water quality. This should be addressed in the RBMP.	manner.
SE_SWMI_009	Called for a revision the 1946 Forestry Act to remove the requirement to replant in all felled areas, so that	The Programme of Measures for forestry includes a recommendation to revise the relevant sections of the 1946 Act to exclude the requirement to
SE_SWMI_003	sensitive areas and those unsuitable for Forestry are not replanted on.	replant on certain sites (low yield class) or in sensitive areas (such as Freshwater Pearl Mussel catchments). Under the existing act a limited felling license may be issued under which the obligation to replant may be waivered by the Minister. Consideration must be given to any beneficial effect of restocking such as the uptake of nutrients from previous crops. The issue of alien species invasion (such as Rhododendron) must also be considered. Deforestation will also have a significant negative bearing on the national Carbon Sequestration balance, generate soil erosion and reduce future timber supplies to the wood industry.
SE_SWMI_009	- Identified the need to comply with recent ruling from the European Court of Justice by implementing	European Communities (Environmental Impact Assessment) (Amendment) Regulations, 2001. (S.I. No. 538 of 2001) introduced the
SE_SWMI_003	Environmental Impact Assessment to all sub-threshold	Forestry Consent Scheme. This allows for sub-threshold afforestation to



Forestry	Forestry		
Submission Reference No.	Issues Identified	Response	
	afforestation in or near protected sites or species.	be subject to Environmental Impact Assessment for specific proposals at the discretion of the Minister. All protected sites and their catchments would need to be identified (using the Environmental Protection Agency Register of Protected Areas with continuous updates by National Parks and Wildlife Service for habitats). All applications to the Forest Service (FS) are checked for proximity or inclusion in designated areas by the FS and all afforestation applications are checked for subthreshold EIAs (documented on the Forest Service IFORIS system). If they are included, the application is referred to the relevant statutory body for consultation. Updates of these areas are also	
	- Proposed the nitrates regulations should be amended to include forestry activities.	updated on FS databases.	
	- Restrictions governing clearfelling must be introduced with strict controls of coup sizes in sensitive areas.	Fertilisation in relation to forestry is a separate issue and is regulated by the Forest and Water Guidelines, the Forestry Schemes Manual, Codes of Good Practice and by the European Communities (Aerial Fertilisation) (Forestry) Regulations 2006, S.I. No. 592 of 2006.	
	- Move away from over-reliance on conifers and increase diversity in planting with an increased broadleaf component.	Control of clearfelling is managed though licensing by the Forest Service under the 1946 Forestry Act. Either Limited or General Felling Licenses are issued with conditions. Consultation between Forest Service and National Parks and Wildlife Service, relevant Fisheries Boards and other Statutory Stakeholders takes place where sensitive areas are concerned. In general smaller coup sizes are being felled and felling plans take account of the sensitivity of the catchment receptors in their design. The FS harvesting guidelines specify area limits for clearfelling.	
	- Low impact silvicultural systems should be implemented and there should be a shift away from over reliance on planting on marginal wet land.	Coillte Teoranta follow the principles of Sustainable Forest Management. The long term effect of this policy is to produce uneven aged, multi-storey forest stands with considerable species diversity.	
	- Increased use of effective buffer zones should be	Presently the national forest estate comprises over 24% broadleaf species and their planting is supported through Forest Service initiatives and grant aid. However, planting is a commercial enterprise and market driven, and this together with site characteristics often dictates species mix. Low yield	



Forestry			
Submission Reference No.	Issues Identified	Response	
	required.	class sites will not attract grant assistance or yield commercial crops. This will result in a move to better lands downstream and away from marginal soils in the more exposed upstream locations. In 2006 broadleaf planting was 31.4% of all planting. The grant structure also favours planting of broadleaves (higher grant support).	
		Buffer zones are required to be established under the Forestry Schemes Manual and Forest Service Guidance documents. As older plantations are felled buffer zones are being introduced as part of the overall management of the site. The minimum buffer zone requirement is10m and may vary up to 25 m depending on slope conditions.	
	-The use of high mycorrhizally active species in the vegetation of engineered buffer zones to ensure their long-term efficiency (such as salix, alder and aspen) should be promoted.	Consideration has been given to the use of different species in buffer zone areas. However, the selection is often site specific as many plantations are at high elevations where broadleaf species may not establish. The Forest Service together with Woodlands of Ireland have published an information note entitled Native Riparian Woodlands - A Guide to Identification, Design, Establishment and Management. It addresses practical issues such as the management of existing native riparian woodland, restoring native riparian woodland on conifer plantation sites and the establishment of new native riparian woodlands on greenfield sites.	
SE_SWMI_009 SE_SWMI_003	Identified that the Water Matters report was inaccurate where it referred to acidification being a result of what is normally known as 'scrubbing', without referring to	Studies on acidification of waters in Ireland have generally identified coniferous stands with closed canopies (generally greater than 14 years) on poorly buffered sites as being a primary conduit for acidification impact.	
	the acidic nature of the needles of Sitka Spruce which cause the more significant portion of the acidification problems associated with forestry.	This arises from scavenging of both anthropogenic pollutants from the air and also sea salts from storm events. The presence of forests per say and the associated forest litter on such poorly buffered sites is being considered in the context of acidification impacts. Broadleaf species also have potential to cause acidification on poorly buffered sites although to a lesser extent and this is also being considered in the measures for forestry. The wood derived from Sitka Spruce is known as White Deal and is the wood type in most demand by the market (up to 90% of timber used in modern house building is White Deal or derived from it).	



Forestry		
Submission Reference No.	Issues Identified	Response
	The report also omits the issue of habitat loss as a	The point about habitat loss is noted and will be referred to in the RBMP.
	major problem.	Some work has been undertaken on the feasibility of restoring blanket
		bogs post clearfelling of the forest and this will be considered where
		feasible as a measure. Forest Service also consults with NPWS and no
		planting occurs in a designated area without agreement of NPWS.
SE_SWMI_009	Reference in the reports to forestry problems being	It is recognised that forestry issues are ongoing. However, many of the
	historic is misleading. The recently published Coford	issues do relate to older forest plantations, now at harvest stage, which
SE_SWMI_003	"Bioforest" Project Report raises concern that	were established prior to the introduction of the current suite of Forest
	adequate attention is not being paid within current	Service Guidelines, the Code of Good Forestry Practice and the Forestry
	forest policy and practice to the threats and pressures	Schemes Manual. These publications resulted from progressive ongoing
	being posed by current forestry practices on	research into forests and associated water quality issues. A
	biodiversity and water quality.	recommendation has been made to update these documents to reflect
		recent research work and cross referencing and also to introduce new
		guidance specifically for the management of older plantations. Forest
		Service Policy since the 1980s has been to move forestry away from the
		more difficult peat based sites to more mineral soils and this is reflected in
		the change in forest soil type locations since that time (National Forest
		Inventory). Forest Service guidelines are updated based on best available
		knowledge at the particular time
SE_SWMI_003	'Tunneling' where tree growth on a river bank blocks	Tunneling is largely a phenomena of older plantations planted prior to
	light to the river must be prevented.	Forest Service Guidelines. Newer plantations, post 1980s', have
		established buffer zone widths. As part of felling licenses issued by the
		Forest Service riparian zones and buffer zones are required to be
		introduced under any restocking plan. Some shading of streams is desirable to provide refuge for fish species and planting of buffer going
		desirable to provide refuge for fish species and planting of buffer zones will include selected planting with suitable species.
		Installation of buffer zones in both afforestation and restocking of sites is
		now mandatory, which will eliminate the tunneling effect over time.
SE_SWMI_009	The use of forestry land for the spreading of sewage	The application of sewage sludge to forests is not common practice as
<u>52_5 ((1)11_00)</u>	sludge is a serious concern.	there are significant issues with access, nutrient contents and impacts on
SE_SWMI_003		water quality associated with its use. The Forest Service have
~ <u>_</u> ~		requirements specifying the use of slow release fertilizer, rates of
		application and concentrations in their Guidance documents.
		Sewage sludge does not meet any of these requirements. However, it has
		been used in experimental coppice willow plots but its use as a general
	1	t



Forestry		
Submission Reference No.	Issues Identified	Response
		purpose forest fertilizer would require significant study and evaluation before it would receive general approval from the Forest Service.
		Note for comment: Spreading of sewage sludge is controlled by the Waste Management (Use of Sewage Sludge in Agriculture) (Amendment) Regulations 2001 and also under Local Authority Sludge Management plans. However, the Regulation specifically refers to "agriculture" in the context of growing commercial food crops and not to forestry. A revision to include for
		forestry application could be considered.
SE_SWMI_017	High phosphates levels in streams draining an area of forestry that had been clear felled have been found. This type of problem will occur intermittently and should be included for further investigation.	The POMS study on Forests and Water has completed fish, invertebrate and chemical monitoring to determine potential impacts from forestry activities, developed national risk maps on acid sensitive sites and produced new guidelines for best practice.
SE_SWMI_018	Native Woodland Scheme should be expanded and should be encouraged in all farm schemes	This is a matter for the Department of Agriculture, Fisheries and Food and is not under the remit of the WFD.
SE_SWMI_018	Less intensive planting has to take place where glades and other natural areas (other than stream buffer zones and silt traps) can be employed.	Additional measures for forestry are being proposed by the WRBD for inclusion in the RBMP which have addressed these issues.
SE_SWMI_018	Legislation is needed to protect the freshwater pearl mussel from bad forestry practice.	New guidance has been developed for forestry in sensitive catchments with Pearl Mussel populations.
SE_SWMI_018	Improve referral on forest grant application and allocate sufficient resources to ensure the effectiveness of the screening process.	Additional measures for forestry are being proposed by the WRBD for inclusion in the RBMP which have addressed these issues.

3.2.6 Usage and discharge of dangerous substances

Usage and discharge of dangerous substances		
Submission Reference No.	Issues Identified	Response
SE_SWMI_003	When an IPPC license is suspended or revoked the	There is a process set out in the IPPC legislation for the revoking of a



Usage and discharge of dangerous substances			
Submission Reference No.	Issues Identified	Response	
SE_SWMI_009	business must cease to operate and this must be	license. It is illegal for a business to operate without a license if its	
	enforced through a straightforward legal process.	operations determine that it requires one.	
SE_SWMI_003	Details of all licences for use and discharge of	All licences are currently available for viewing by the general public on	
SE_SWMI_009	dangerous substances should be made easily accessible on-line	the Environmental Protection Agency website http://www.epa.ie/whatwedo/licensing/.	
SE_SWMI_009	Prohibit the use of phosphates in detergents.	The approach to this matter in Ireland has been to work with industry to	
SE_SWMI_003	romon die use of phosphales in deergents.	voluntarily reduce the amount of phosphate in detergents.	
		Studies for the River Basin Management Plans indicate that detergents account for only a very small proportion of the phosphates discharged to surface water or groundwater bodies.	
SE_SWMI_003	National awareness campaign for the public on	In any awareness campaign on this matter the impact of dangerous	
SE_SWMI_009	prevention of use / misuse / improper disposal of	substances on the waster environment would be only one of several	
	dangerous substances including pesticides.	aspects to be addressed. At present, the Health and Safety Authority	
		carries out awareness raising work under the remit of REACH	
		(Registration, Evaluation and Authorisation of Chemicals). The	
		Department of Agriculture, Fisheries and Food meets regularly with	
		farmers and growers in relation to pesticides usage. On an international	
		level the Global Harmonisation System for Classification and labelling of	
		chemicals is improving chemical labels to make them more easily	
		understood.	
SE_SWMI_003	Synthetic pyrythroid in sheep dip should be suspended	This matter is being kept under review by the Irish Medicines Board.	
SE_SWMI_009	or banned (its use has been suspended in Northern	Targeted monitoring is taking place to investigate its impact.	
	Ireland, pending a review of its impacts on the aquatic		
	environment).		
SE_SWMI_003	Concerned about the addition of fluoride to water	This matter was reviewed recently by the Department of Health and it was	
SE_SWMI_009	supplies.	decided that the current policy should be retained subject to some changes,	
SE_SWMI_002		the most significant of which was the reduction in the concentration of	
		fluoride.	
SE_SWMI_013	Alternative methods should be used for controlling	All dangerous substances in use are regulated.	
	vegetation along rivers such as cutting, extracting and		
	mulching.		
SE_SWMI_015	Awareness raising campaign is required.	In any awareness campaign on this matter the impact of dangerous	
SE_SWMI_018		substances on the water environment would be only one of several aspects	
SE_SWMI_024		to be addressed. At present, the HSA carries out awareness raising work	



Usage and discharge of dangerous substances			
Submission Reference No.	Issues Identified	Response	
		under the remit of REACH (Registration, Evaluation and Authorisation of Chemicals). The Department of Agriculture, Fisheries and Food meets regularly with farmers and growers in relation to pesticides usage. On an international level the Global Harmonisation System for Classification and labelling of chemicals (GHS) is improving chemical labels to make them more easily understood.	
SE_SWMI_017	The section should include reference to substances that have no further use and may be stored in a variety of places. These places range from households through industrial premises to farm holdings.	Cross Compliance farm inspections check the chemicals on the farm. The HSA are carrying out awareness raising work under the remit of REACH and an awareness campaign is proposed for the general public.	
SE_SWMI_018	Actions require stronger enforcement and monitoring. Treatment through WWTPs can not be relied upon.	Further effluent characterisation has been suggested as an additional action as part of the RBMP. WWTP licensing is currently underway.	
SE_SWMI_018	Carcinogenic and hormone disrupting household chemicals manufacturers will have to be approached to formulate and use benign ingredients.	The implementation of the REACH regulation will address this issue.	
SE_SWMI_018	Agricultural Science Association of Ireland recent statement to the EU to amend the REACH decision to ban some priority chemicals used in farming must be resisted	All chemicals used in farming are under a regulatory framework.	
SE_SWMI_024	Research is required into the impact of antibiotic consumption on water quality.	The EPA are currently carrying out projects on issues relating to antibiotics.	
SE_SWMI_024	Ban the sale of all toxic detergents and cleaning products.	All substances are assessed under a regulatory framework before they can be put on the market. All substances are reviewed when additional information becomes available on them.	



3.2.7 Physical modifications

Physical modifications		
Submission Reference No.	Issues Identified	Response
SE_SWMI_009 SE_SWMI_003	Called for the introduction of a comprehensive registration and authorisation system to control the	A registration and authorisation system to control the impact of physical modifications is required by WFD. Measures and controls to ensure that
3L_3 W WIL_003	impact of physical modifications.	hydromorphological conditions are consistent with the achievement of the required ecological status have to be established in response to Article 11(3) of the Water Framework Directive.
SE_SWMI_009	Noted that the Office of Public Works should not be the statutory authority to administer new regulations.	The competent authority for administering the necessary measures and controls has yet to be determined.
SE_SWMI_007	Any measures in relation to physical modifications	Comments are noted and will be considered in the development of
	have the potential to impact significantly on OPW Programme of Flood Relief Schemes and statutory	measures and controls in relation to physical modifications.
	maintenance of these schemes and arterial drainage	
	works.	
	Note that some regulation of physical modifications	
	may be necessary but are of the strong view that OPW	
	as a Statutory Undertaker executing works in	
	pursuance of government policy or statutory duties should be exempt from the licensing regime.	
	It is envisaged that the OPW will make the Annual	
	Drainage Maintenance Work Programmes available to	
	the RBDs and will work closely with these forums in	
	relation to water management issues.	
SE_SWMI_008	Worried about the increased frequency of flash flood	Flood risk management plans have to be prepared as part of the Floods
	events and called for the introduction of national river	Directive, and measures prepared to deal with areas identified as being at risk of flooding.
SE_SWMI_003	maintenance programme. Headwater habitats need to maintained and protected	There is an obligation under the WFD to prevent deterioration of status in
5 <u>2_</u> 5,0,001_005	to act as 'sponges' to reduce the likelihood of flooding	all waters.
SE_SWMI_009	downstream.	



Physical modifications	Physical modifications		
Submission Reference No.	Issues Identified	Response	
SE_SWMI_003 SE_SWMI_009 SE_SWMI_017 SE_SWMI_020 SE_SWMI_024	Expressed concern about building pressures on floodplains and how this would be addressed. The implementation of the Floods Directive (specifically the preparation of Flood Management Plans by the OPW) should be fully integrated with the implementation of the WFD and the development of river basin management plans.	An objective of the Floods Directive is to establish a framework for the management of flood risks, aimed at reducing the negative impacts of floods on the environment (including water). Similarly, an objective of the Water Framework Directive is to establish a framework for the protection of inland surface waters, transitional waters, coastal waters and groundwater that, contributes to mitigating the effects of floods. The administrative units are the same for the two Directives, i.e. the Floods Directive must be implemented on the level of the river basin districts (which includes not just river basins and sub basins but also associated coastal areas). The implementation cycles and reporting mechanisms of both directives are synchronised as regards their timetables. For example, flood risk management plans are to be completed and published by 22 nd December 2015, corresponding with the first review and update of river basin management plans and their programmes of measures. Also, the public participation aspects of the Floods Directive.	
SE_SWMI_003	Called for Environmental Impact Assessment to be	Current practice is for flood alleviation projects to fully comply with	
SE_SWMI_009	carried out before flood prevention measures are considered.	Environmental Imapct Assessment (EIA) legislation. Accordingly, all large scale flood relief projects conduct an EIA and smaller scale projects while below the threshold for EIA, typically carry out other forms of ecological assessments particularly where works could affect a Special Area of Conservation or a Special Protection Area.	
SE_SWMI_003 SE_SWMI_009	Arterial drainage to improve agricultural productivity which is encouraged by the Land Drainage Act has an impact on hydrology and flow patterns.	Arterial drainage may impact on hydrology and flow patterns. However Arterial Drainage Schemes were traditionally carried out on a catchment basis to allow for the fact that the whole catchment acts as a unit. As required by the Arterial Drainage Acts 1945 to1995, no flood alleviation or land drainage works are carried out without due regard to the downstream effect of the proposal.	
SE_SWMI_009	Recommend that the principle of urban Total Impervious Areas (TIA) be accepted as another aspect of physical modifications. Local authority planners should be required to look at new development proposals with a view to minimising the TIA values by the incorporation of greenbelts,	Sustainable Drainage solutions continue to be developed and integrated by local authorities as part of their planning policies e.g. the authorities involved in the Greater Dublin Strategic Drainage Study.	



Physical modifications		
Submission Reference No.	Issues Identified	Response
	parks, sod roofs and other measures which have the capacity to buffer peak flood run-offs and their associated silt and toxin loads.	
SE_SWMI_003 SE_SWMI_009	A structured programme to address the 'rehabilitation' of previously drained rivers is needed.	Restoration measures are being considered as part of the measures and controls required by Article 11(3) of the Water Framework Directive to ensure that hydromorphological conditions are consistent with the achievement of the required ecological status.
SE_SWMI_001	Waterways Ireland seeks to ensure that when the River Basin Management Plans are drafted its statutory functions are fully incorporated with minimal bureaucracy through agreed methodologies. Look to involvement in developing and maintaining a programme of measures and methodologies such as best practice guidelines for dredging and aquatic weed management necessary for sustainable River Basin Management Plans.	Comments are noted. Measures and controls to ensure that hydromorphological conditions are consistent with the achievement of the required ecological status have to be established in response to Article 11(3) of the Water Framework Directive. However, as with proposals for all significant legislation a Regulatory Impact Assessment will be carried out on any significant regulatory proposals. The assessment process will involve consultation with relevant stakeholders such as Waterways Ireland.
SE_SWMI_018	New approaches to rectify damage on a catchment and whole system basis are suggested.	Central government is currently considering the introduction of regulations to control physical modifications to surface waters. These controls may involve a licensing regime or registration based on general binding rules. The POMS study on coastal and transitional morphology has developed an impact assessment tool that determines how much a water body has been affected by morphology modifications. It has developed best practice guidance for new developments and for restoring affected areas where it is technically feasible and cost effective to do so. Detail of all work that was carried out in the project will be available as a background document to the draft RBMP.
SE_SWMI_018	Update of legislation and planning laws are required	Central government is currently considering the introduction of regulations to control physical modifications to surface waters.
SE_SWMI_017	A pilot model should be developed for at least one small river catchment. The model would predict high and low flows, and related water quality and take into account climate change.	A pilot model has been run for the SWRBD project using the SIMCAT modelling tool. This tool will be distributed to the Local Authorities.
SE_SWMI_011	Negative drainage schemes are taking place on spawning tributaries and streams and they result in	Measures will be proposed to alleviate the issue of poor drainage practices.



Physical modifications		
Submission Reference No.	Issues Identified	Response
	siltation.	
SE_SWMI_015	A comprehensive registration and authorisation is needed to control the impact.	Central government is currently considering the introduction of regulations to control physical modifications to surface waters. These controls may involve a licensing regime or registration based on general binding rules.
SE_SWMI_011	Channelisation on the River Multeen on the Tipperary/Dundrum Road.	Measures will be proposed to alleviate the issue of poor drainage practices. Where it is found that there are negative impacts due to poor drainage practices remediation measures will be proposed.

3.2.8 Abstractions

Abstractions		
Submission Reference No.	Issues Identified	Response
SE_SWMI_003	Noted that the bar for defining 'significant	A registration and authorisation system to control the impact of
SE_SWMI_009	abstraction' in new regulations must be set to	abstractions is required by WFD. Licensing regulations for groundwater
	accommodate projected ecological impacts and	abstractions are currently being considered by DEHLG. Draft technical
	predicted recharge rates.	guidance has been prepared to support the new regulations. The technical
		guidance includes consideration of both issues raised in this comment.
SE_SWMI_003	Leakage from existing infrastructure must be	Measures and controls to ensure that abstractions conditions are consistent
SE_SWMI_009	addressed. Measures must be introduced to rapidly	with the achievement of the required ecological status have to be
	trace and stop leaks from water infrastructure.	established in response to Article 11(3) of the Water Framework Directive.
		Reducing leakage is one potential measure to be considered.
SE_SWMI_003	Questioned whether the cumulative impact of	The registration and authorisation system to control the impact of
SE_SWMI_009	abstractions will be addressed and noted that low	abstractions has to be established. Previous work on the Initial
	flows must be used to determine acceptable	
	abstraction limits.	Article 5 of the Water Framework Directive used the concept of 'net
		abstractions' in a water body, accounting for cumulative impacts. Net
		abstractions are the sum of the all abstractions minus all discharge.
SE_SWMI_003	Rain water harvesting needs more focus.	Measures and controls to ensure that abstractions conditions are consistent
		with the achievement of the required ecological status have to be
SE_SWMI_009	Requirements for harvesting should be included in	established in response to Article 11(3) of the Water Framework Directive.
	new planning consents and grants should be provided	Rainwater harvesting is one potential measure to be considered.



Abstractions		
Submission Reference No.	Issues Identified	Response
	for retrofitting of harvesting equipment.	
SE_SWMI_003	Noted that water charging for all abstraction is necessary.	A registration and authorisation system to control the impact of abstractions is required by WFD. Licensing regulations for groundwater abstractions are currently being considered by DEHLG.
SE_SWMI_003 SE_SWMI_009	The impact of harvesting of deep water (>3km) reserves for geothermal energy must be considered.	A registration and authorisation system to control the impact of abstractions is required by WFD. Licensing regulations for groundwater abstractions are currently being considered by DEHLG. Draft technical guidance has been prepared to support the new regulations. The technical guidance includes consideration of abstractions for geothermal energy uses similarly to other abstractions unless the system is a closed-loop application where the quantity of water and the location of abstraction/discharge are the same.
SE_SWMI_018 SE_SWMI_023 SE_SWMI_020	Need for new legislation and licensing system. License/enforcement needs to be adequately resourced.	New regulations are currently being developed by central government for a single registration and licensing system for all significant abstractions from surface and groundwaters. Licences will set abstraction limits to preserve water resources and prevent impacts on fish populations, and specify compulsory monitoring requirements.
SE_SWMI_023	Existing controls are inadequate to deal with modern and developing water abstraction/usage practices.	The Programme of Measures study on abstraction pressures has developed a national abstractions register and completed technical studies to establish the amount of water currently abstracted, predict future abstraction requirements and estimate water resource requirements needed to protect fish populations. Detail of all work that was carried out in the project will be available as a background document to the draft River Basin Management Plan. New regulations are currently being developed by central government for a single registration and licensing system for all significant abstractions from surface and ground waters. Licences will set abstraction limits to preserve water resources and prevent impacts on fish populations, and specify compulsory monitoring requirements.
SE_SWMI_023 SE_SWMI_018	Application process should involve applicant identifying spawning areas within 1km of proposed abstraction, carrying out ecological studies on surface waters, identifying zones of contribution for groundwater and identifying all parties potentially	Currently, abstraction schemes are subject to planning regulations and large abstractions are subject to Environmental Impact Assessment regulations, which include provision for public consultations. The WFD requires a registration and authorisation system to control the



Abstractions		
Submission Reference No.	Issues Identified	Response
	affected. Larger abstractions should involve an EIA, hydrometric surveys and public consultations. Abstractions application process should also take account of vulnerability mapping and nitrates directive.	 impact of abstractions; licensing regulations for groundwater are currently being considered by DEHLG; draft technical guidance has been prepared to support the new regulations. The guidance includes consideration of zones of contribution and source protection, which take account of vulnerability mapping. Regarding the Nitrates Directive, DEHLG has developed a Nitrates Action Plan that addresses potential for impacts on nitrate on water quality.
SE_SWMI_023 SE_SWMI_018	 Items to be considered by licensing agency min flow retaining in water body for good ecological status/good river condition rather than a % of the overall/dry weather flow has BAT been used to minimise abstraction requirements reuse water rather than further abstraction can rainwater harvesting/impoundment be used instead of or to reduce abstraction 	The comments are noted.
SE_SWMI_023 SE_SWMI_018	 License conditions Continuous flow and level monitoring in abstraction waters Maintain records of abstraction on a publicly accessible website (daily, weekly updated) Designate points for intermittent abstractions None from headwaters or sensitive areas e.g. spawning grounds, fresh water pearly mussel Water abstracted should be returned to the same water body/catchment (at a point close to the abstraction) Non essential abstraction to cease during drought conditions i.e. drinking water Water abstracted (Ground and surface waters) Penalties for non conformance with license should be realistic, reflect the high respect we should have for our waters and be sufficiently 	The comments are noted.



Abstractions		
Submission Reference No.	Issues Identified	Response
	 large so that they are a deterrent Abstraction licence should contain a max hourly rate as well as an overall daily, weekly, monthly rate Abstracted water should be monitored fro quality Annual impact on abstraction water report should be publicly accessible A requirement to attend a water awareness education programme (2 or 3 days long and prepared by the EPA of other statutory body) 	
SE_SWMI_018 SE_SWMI_023 SE_SWMI_024	Awareness campaigns	A series of education programmes are being prepared for all local authority officers. Training and education programmes will form part of the implementation of the WFD.
SE_SWMI_019	Not enough emphasis given to the effects of recharge rates	The WFD requires a registration and authorisation system to control the impact of abstractions; licensing regulations for groundwater are currently being considered by DEHLG; draft technical guidance has been prepared to support the new regulations. Recharge of groundwater is a central component in this guidance.
SE_SWMI_019	 All present and future abstractions should be properly assessed for recharge rates and in particular for: <u>Rivers</u> The effects of flow properties and upstream of abstraction points The effects on feeder streams upstream of abstraction points Movement of bed material in suspension and by siltation, particularly relating to salmonid spawning reeds <u>Lakes</u> Maintaining optimum water levels throughout the year The effects of abstraction on feeder streams to the lake 	The WFD requires a registration and authorisation system to control the impact of abstractions; licensing regulations for groundwater are currently being considered by DEHLG; draft technical guidance has been prepared to support the new regulations. Most of these comments address water balance issues, which are fundamental to assessment of potential impacts from abstractions. Abstractions of surface water bodies (rivers/lakes) do not typically have impacts on upstream feeder streams. With regard to groundwater, the potential for effects on discharge to streams is a component of water balance.



Abstractions		
Submission Reference No.	Issues Identified	Response
	 <u>Aquifers</u> The effects on water table levels surrounding and adjacent to the aquifer The effects on streams fed by the aquifer. 	
SE_SWMI_021	River Slaney abstraction is pumped back into the River Barrow and this effects spawning grounds by silting of the river.	New controls on abstractions will be proposed under the WFD POMS.
SE_SWMI_023	Type of abstractions regulated should include intermittent, temporary, permanent/long term and groundwater abstraction	The WFD requires a registration and authorisation system to control the impact of abstractions. Thresholds may be set for those abstractions requiring only registrations and those also requiring authorisation.
SE_SWMI_023	Drilling companies should be licensed	The WFD requires a registration and authorisation system to control the impact of abstractions; licensing regulations for groundwater are currently being considered by DEHLG; draft technical guidance has been prepared to support the new regulations. The guidance includes recommendations on licensing of drilling companies.
SE_SWMI_023	No lower limit of abstraction for licence requirement	The WFD requires a registration and authorisation system to control the impact of abstractions. Thresholds may be set for those abstractions requiring only registrations and those also requiring authorisation
SE_SWMI_023	A national central database of abstractions should be compiled	The WFD requires a registration system to control the impact of abstractions.
SE_SWMI_023 SE_SWMI_024	A system that rewards the economic use of water should be implemented	This is being investigated as part of the ERBD's Abstraction Programme of Measures Study
SE_SWMI_020 SE_SWMI_021	Abstractions from one basin for supply in another basin are an issue	This is being investigated as part of the ERBD's Abstraction Programme of Measures Study.
SE_SWMI_017	A programme of pipe leakage reduction should firstly require the age and type of pipe work to be recorded.	There is a National Water Conservation Programme that is currently looking at the age and type of pipes.
SE_SWMI_017	The statement "All of that water has to be treated to a high standard to remove impurities and make it fit for consumption" is grossly incorrect. The majority of groundwaters do not receive any treatment other than chlorination.	The comment is noted
SE_SWMI_017	Over-abstraction may cause permanent damage to the environment	The comment is noted.
SE_SWMI_017	All sources of water have finite capacities, and work	The comment is noted. Determination of abstraction volumes will be a



Abstractions		
Submission Reference No.	Issues Identified	Response
	is required to define these capacities, and so determine	component of the registration and authorisation system to control the
	the maximum rates of abstraction.	impact of abstractions required under the WFD
SE_SWMI_017	A model that would provide data for calculations of	The need for a model to define the capacity of water resources would need
	the finite capacity of both surface and groundwater sources is suggested.	to be decided on a case-by-case basis.
SE_SWMI_017	A charge for all water supplied should apply with	This is currently under investigation.
SE_SWMI_018	payment by usage, thus forming an incentive to	
SE_SWMI_024	minimise consumption.	
SE_SWMI_018	Lower thresholds for EIAs for water abstraction	The WFD requires a registration and authorisation system to control the impact of abstractions. Thresholds may be set for those abstractions
		requiring only registrations and those also requiring authorisation.
SE_SWMI_017	A "Flow modelling" project is urgently required. The	A pilot model has been run for the SWRBD project using the SIMCAT
	studies are mentioned on page 37, but included the	modelling tool. This tool will be distributed to the Local Authorities.
	error that low-flows occur in the summer, they	
	normally occur in September. When planning the	
	studies it is suggested that it includes for linking all	
	the data, e.g. from rainfall to estuary flows and	
	everything in between.	
SE_SWMI_017	Implement the promised legislation on dual-flush toilets	The local authorities have legal responsibilities to implement legislation.
SE_SWMI_024	Suggested revising Planning Legislation to ensure	The comment is noted.
	assessment of water supply and environmental	
	implications of new abstractions as part of planning	
	process.	
SE_SWMI_024	Location of water-demanding industries closer to	This is a matter for the planning authorities.
	supply.	
SE_SWMI_024	Water supply should remain the responsibility of	This is a matter for government policy.
	government and not be privatised.	



3.2.9 Invasive alien species

Invasive alien species		
Submission Reference No.	Issues Identified	Response
SE_SWMI_003	Questioned how a waterbody would be deemed to reach good ecological status if an alien species was present in it that could not be removed	A water body will not achieve high ecological status if an invasive alien species is present. However, good ecological status may be achieved if an alien species is present but is not causing any detrimental ecological impact.
SE_SWMI_009 SE_SWMI_003	Called for regulation of the ornamental plant and animal trade.	Regulations will be introduced under the Wildlife Act 1976 to prohibit the possession or introduction of species of bird, animal or flora that may be detrimental to native species.
SE_SWMI_003	Noted that recommendations from the Quercus invasive species report should be implemented and resourced on an all island basis <u>http://www.jncc.gov.uk/PDF/BRAG_NNS_Stokesetal</u> <u>-InvasiveSpeciesinIreland.pdf</u>	The National Parks and Wildlife Service and the Northern Ireland Environment Agency jointly commissioned the 'Invasive Species in Ireland Project' in 2006. The project developed a risk assessment process to identify non-native invasive species currently in Ireland that pose the highest risk, and those species which have the potential to arrive here. Management and contingency plans have been produced for the most high risk species.
SE_SWMI_013 SE_SWMI_018	Use and import of exotic plants and animal species should be banned.	As part of the Water Framework Directive, a risk assessment has been carried out based on a list of 10 non-native invasive species judged to pose the greatest threat to waterbodies.
SE_SWMI_018 SE_SWMI_024	Further survey work is required.	The NPWS and the Environment and Heritage Service in Northern Ireland
SE_SWMI_018 SE_SWMI_024	A nationwide campaign to eradicate invasive species, replacement with native species, maintaining and retaining hedgerows and planting wildlife friendly gardens was suggested.	jointly commissioned the 'Invasive Species in Ireland Project' in 2006. The project developed a risk assessment process to identify non-native invasive species currently in Ireland that pose the highest risk, and those species which have the potential to arrive here. Management and
SE_SWMI_018	Maps drawn up of invasive species.	contingency plans have been produced for the most high risk species. As
SE_SWMI_018	Registration of boats to control movements.	part of the project a website has been developed
SE_SWMI_018	Control of discharging of ballasts in ports.	<u>www.invasivespeciesireland.com</u> . Users can find information on the range of non-native invasive species in Ireland and can report sightings of them through the website's 'Alienwatch' facility. Awareness raising campaigns are required to prevent the spread of previously introduced non-native invasives and to prevent the introduction of new non-native invasives.



Invasive alien species		
Submission Reference No.	Issues Identified	Response
SE_SWMI_024	Training of council staff on identification and basic	A series of education programmes are being prepared for all local
	handling guidelines should be provided for.	authority officers. Training and education programmes will form part of
		the implementation of the WFD.
SE_SWMI_013	The invasive species Himalayan balm can be seen	Management plans that have been produced for the high risk species. The
	beside the Avonree River, in Friary Meadow, Callan,	Programme of Measures will also seek to prevent the introduction of new
	Co. Kilkenny.	non-native invasive species and prevent the spread of previously introduced
	Japanese knotweed can be seen upstream of Kilkenny	non-native invasivespecies through raising public awareness.
	City near the River Nore.	

3.2.10 High quality areas

High quality areas	High quality areas		
Submission Reference No.	Issues Identified	Response	
SE_SWMI_009	Alternative objectives must not be applied to protected	The mechanism for alternative objectives is clearly set out in the Water	
	areas.	Framework Directive and must be adhered to.	
SE_SWMI_009	The possibility of a 'High Quality Area' protective	Sites at "high status" within water bodies, for example Q4-5, Q5, habitat	
SE_SWMI_003	designation should be explored.	designated areas etc. are being identified and will be included in the	
		RBMPs as special areas requiring stricter control to ensure no deterioration	
		in status. The location and protection of these sites will be integrated into	
		Local Authority Plans and Programmes. It should be noted that not all	
		sites have been identified and mapped by NPWS and a recommendation is	
		being made that NPWS develop an online database of these sites, regularly	
		update it and provide such updates to Public Authorities and other	
		statutory bodies.	
SE_SWMI_002	Emphasised the importance of wetlands and the need	The importance of wetlands is recognized in the WFD. They are assessed	
SE_SWMI_006	for their incorporation into the catchment management	as part of the groundwater risk to groundwater dependent terrestrial	
	process.	ecosystems. Designated wetlands have also been identified for inclusion	
		as high status sites in need of protection although the NPWS database is	
		not fully up to date (see above).	
SE_SWMI_018	Completion of Habitats Directive Obligations and	The Habitats Directive is a basic measure of the WFD and will be included	
	Natural Heritage Areas designation	in the RBMP.	
SE_SWMI_018	Register of Protected Areas to be given to Advisory	The register of Protected Areas is available for download on the SERBD	
	Council, Local Authoritites and eNGOs	website (<u>www.serbd.com</u>).	



3.2.11 Climate change

Climate change		
Submission Reference No.	Issues Identified	Response
SE_SWMI_009	Felt climate change was not dealt with adequately in	Consideration of climate change within the Water Framework Directive
SE_SWMI_002	the reports.	programme was at a very early stage at European level when the 'Water
SE_SWMI_003		Matters' report was prepared.
SE_SWMI_004		
		An approach has now been agreed and this issue will be addressed in the
		River Basin Management Plans.
SE_SWMI_009	Noted some of the potential effects of climate change:	The comments are noted.
	• Reductions in rainfall will result in less water	
SE_SWMI_002	being available to dilute organic effluent.	
	• Increased temperatures will affect water	
	oxygen levels.	
	• Increased vulnerability of groundwater to	
	pollution from increased runoff and also from	
	incursion by sea water resulting from	
	increased sea levels.	
	• Impacts on wetland ecosystems that are	
	sensitive to changes in water balance.	
SE_SWMI_009	Proposed that the draft river basin management plan is	The European level recommendation is that the 2009 RBMPs will be
SE_SWMI_003	climate change 'proofed.'	climate 'checked', i.e. issues will be assessed based on broad climate
SE_SWMI_006		change information, while later plans will be climate 'proofed.'



Climate change		
Submission Reference No.	Issues Identified	Response
SE_SWMI_004	Recommend findings from studies on catchment	Agree.
	based changes due to climate change, produced for the	
	EPA, be included in the River Basin Management	
	Plans e.g.	
	Murphy, C and Charlton, R (2006) "Climate change	
	impact on catchment hydrology and water resources	
	for selected catchments in Ireland".	
	Murphy, C. and Charlton, R. (2007) "Climate Change	
	and Water Resources in Ireland" In Sweeney, J. (ed)	
	Climate Change: Refining the Impacts, Environmental	
	Protection Agency, Ireland, Government Publications,	
	in press.	
SE_SWMI_009	Expressed concern for the potential for climate change	Climate change will not be used as a 'catch-all' excuse for achieving good
	to be used a 'catch-all' excuse for not achieving good	ecological status but its consideration may lead to more stringent future
	ecological status.	limits.
SE_SWMI_018	Climate Change impacts on water quality should get a	The RBMP will include a section on Climate Change and future pressure
SE_SWMI_024	greater reference than what is in the Water Matters	trends.
	booklet.	
SE_SWMI_018	Some hazardous substances may be mobilised under	Any mobilisation of hazardous substances will be picked up under the
	high flow conditions resulting from increased heavy	WFD monitoring programme
	winter precipitation.	



South Eastern River Basin District

3.3 Additional issues identified by participants during the public consultation process

The following submissions were grouped into issues that were not specifically covered in 'Water Matters' reports.

3.3.1 Aquaculture

SE_SWMI_003significant water management issue.reports a number of participants identified that aquaculture should be considered as a national significant water management issue. Although aquaculture was included in the booklet as part of the diffuse and morphology activities, aquaculture was not considered as a separate significant water management issue. As a result of this we will ensure that aquaculture. They noted impacts from salmon farming such as:reports a number of participants identified that aquaculture should be considered as a national significant water management issue. As a result of this we will ensure that aquaculture is dealt with as a separate topic in the River Basin Plan.SE_SWMI_009Expressed concern over the range of impacts of aquaculture. They noted impacts from salmon farming such as:Shellfish cultivation and harvesting activities can result in morphologica impacts. Finfish aquaculture has a number of potential impacts such as increased nutrient loading and organic pollution around cages• Increased nutrient loading and organic pollution around cages• Increased nutrient loading and organic pollution around cages• Increased nutrient loading and organic increased nutrient loading and organic pollution around cages• Increased nutrient loading and organic infish aquaculture including veterinary medicines (primarily antibiotics, and sea lice treatments), disinfectants feed additives and antifoulants. Work is underway to develop a nationa approach for regulating chemical use and discharge for finfish aquaculture in Ireland. A new sea lice control strategy has also been launched, the strategy is available from:	Aquaculture	Aquaculture		
SE_SWMI_003significant water management issue.reports a number of participants identified that aquaculture should be considered as a national significant water management issue. Althougl aquaculture was included in the booklet as part of the diffuse and morphology activities, aquaculture was not considered as a result of this we will ensure tha aquaculture. They noted impacts from salmon farming such as:reports a number of participants identified that aquaculture should be considered as a national significant water management issue. As a result of this we will ensure tha aquaculture. They noted impacts from salmon farming such as:SE_SWMI_002Expressed concern over the range of impacts of aquaculture. They noted impacts from salmon farming such as:Shellfish cultivation and harvesting activities can result in morphologica impacts. Finfish aquaculture has a number of potential impacts such as increased nutrient loading and organic pollution around cagesIncreased nutrient loading and organic pollution around cagesShellfish cultivation and asea lice treatments), disinfectants feed additives and antifoulants. Work is underway to develop a nationa approach for regulating chemical use and discharge for finfish aquaculture in Ireland. A new sea lice control strategy has also been launched, the strategy is available from: http://www.agriculture.gov.ie/publicat/publications2008/SeaLiceControlSt rategy.docSE_SWMI_19Inland fish farms present an issue for the water bodies that support them.There will be increased control of abstractions as a result of the measures proposed in the RBMP. Also new regulations are being drawn up by DEHLG that will set new water quality standards. All licenses will have to comply with these	Submission Reference No.	Issues Identified	Response	
SE_SWMI_002Concern that impacts surrounding aquaculture enterprises had not been dealt with in the Wate Matters reports.aquaculture was included in the booklet as part of the diffuse and morphology activities, aquaculture was not considered as a separat ignificant water management issue. As a result of this we will ensure tha aquaculture is dealt with as a separate topic in the River Basin Plan.SE_SWMI_009Expressed concern over the range of impacts from salmon farming such as:Shellfish cultivation and harvesting activities can result in morphologica impacts. Finfish aquaculture has a number of potential impacts such as increased nutrient loading and organic pollution around cagesShellfish cultivation and harvesting activities can result in morphologica impacts. Finfish aquaculture has a number of potential impacts such as a range of substances used in finfish aquaculture including veterinary medicines (primarily antibiotics, and sea lice treatments), disinfectants approach for regulating chemical use and discharge for finfish aquaculture in Ireland. A new sea lice control strategy has also been launched, the strategy is available from: http://www.agriculture.gov.ie/publicat/publications2008/SeaLiceControlSt rategy.docSE_SWMI_19Inland fish farms present an issue for the water bodies that support them.There will be increased control of abstractions as a result of the measures proposed in the RBMP. Also new regulations are being drawn up by DEHLG that will set new water quality standards. All licenses will have to comply with these		A	From the recent public consultation on ' <i>Water Matters – Have your say!</i> ' reports a number of participants identified that aquaculture should be	
enterprises had not been dealt with in the Water Matters reports. significant water management issue. As a result of this we will ensure tha aquaculture is dealt with as a separate topic in the River Basin Plan. SE_SWMI_009 Expressed concern over the range of impacts of aquaculture. They noted impacts from saluen farming such as: Shellfish cultivation and harvesting activities can result in morphologica impacts. Finfish aquaculture has a number of potential impacts such as increased nutrient loading and organic pollution around cages Shellfish cultivation and organic pollution around cages. There are also a range of substances used in finfish aquaculture including veterinary medicines (primarily antibiotics, and sea lice treatments), disinfectants feed additives and antifoulants. Work is underway to develop a nationa approach for regulating chemical use and discharge for finfish aquaculture in Ireland. A new sea lice control strategy has also been launched, the strategy is available from: Use of dangerous substances Poor maintenance of inter-tidal oyster trestles. Mussel bed cultivation and associated dredging activities can affect biodiversity and indigenous species. There will be increased control of abstractions as a result of the measures that support them. SE_SWMI_19 Inland fish farms present an issue for the water bodies that support them. There will be increased control of abstractions as a result of the measures water quality standards. All licenses will have to comply with these	SE_SWMI_003		considered as a national significant water management issue. Although aquaculture was included in the booklet as part of the diffuse and	
SE_SWMI_002aquaculture. They noted impacts from salmon farming such as: • Increased nutrient loading and organic pollution around cages • Unauthorised disposal of waste • Breaches of sea lice limits/infection of wild fish • Decline of wild salmon and sea trout numbers • Use of dangerous substancesimpacts. Finfish aquaculture has a number of potential impacts such as increased nutrient loading and organic portients of sea lice limits/infection of wild fish • Decline of wild salmon and sea trout numbers • Use of dangerous substancesimpacts. Finfish aquaculture has a number of potential impacts such as increased nutrient loading and organic productives and antifoulants. Work is underway to develop anationa approach for regulating chemical use and discharge for finfish aquaculture in Ireland. A new sea lice control strategy has also been launched, the strategy is available from: http://www.agriculture.gov.ie/publicat/publications2008/SeaLiceControlSt rategy.docSE_SWMI_19Inland fish farms present an issue for the water bodies that support them.There will be increased control of abstractions as a result of the measures proposed in the RBMP. Also new regulations are being drawn up by DEHLG that will set new water quality standards. All licenses will have to comply with these	SE_SWMI_002	enterprises had not been dealt with in the Water	morphology activities, aquaculture was not considered as a separate significant water management issue. As a result of this we will ensure that aquaculture is dealt with as a separate topic in the River Basin Plan.	
 Increased nutrient loading and organic pollution around cages Unauthorised disposal of waste Breaches of sea lice limits/infection of wild fish Decline of wild salmon and sea trout numbers Use of dangerous substances Poor maintenance of inter-tidal oyster trestles. Mussel bed cultivation and associated dredging activities can affect biodiversity and indigenous species. SE_SWMI_19 Inland fish farms present an issue for the water bodies that support them. Se_SWMI_19 Inland fish farms present an issue for the water bodies that support them. 	SE_SWMI_009		Shellfish cultivation and harvesting activities can result in morphological impacts. Finfish aquaculture has a number of potential impacts such as	
that support them. that support them. proposed in the RBMP. Also new regulations are being drawn up by DEHLG that will set new water quality standards. All licenses will have to comply with these		 Increased nutrient loading and organic pollution around cages Unauthorised disposal of waste Breaches of sea lice limits/infection of wild fish Decline of wild salmon and sea trout numbers Use of dangerous substances Poor maintenance of inter-tidal oyster trestles. Mussel bed cultivation and associated dredging activities can affect biodiversity and indigenous species.	http://www.agriculture.gov.ie/publicat/publications2008/SeaLiceControlSt rategy.doc	
	SE_SWMI_19		proposed in the RBMP. Also new regulations are being drawn up by DEHLG that will set new water quality standards. All licenses will have to comply with these	



Aquaculture		
Submission Reference No.	Issues Identified	Response
SE_SWMI_018	Aquaculture needs proper up to date scientific assessment. Not enough emphasis put on it.	All aquaculture sites are licensed. An investigation into the substances used in aquaculture has been carried out.
SE_SWMI_019	 Controls of aquaculture should include: Planning for these facilities should be brought under the Planning and Development Act (presently such developments are moderated on by the Dept. of Agriculture, Fisheries and Food) in order that the public may be advised of the proposed development an can make observation or object EPA licences for these activities should be available for public scrutiny Compliance with planning and licensing conditions should be reported to public bodies and be available for public scrutiny 	All aquaculture operations must be licensed under the Fisheries (Amendment) Act 1997. All aquaculture operations require planning under the Planning Acts. All enforcement actions are <i>sub judice</i> and therefore non-compliance can not be reported unless an action has been taken and then the results of the action are made available.
SE_SWMI_019	Concern regarding the methods used for harvesting cockles in Waterford harbour and the effects the practice has on the ecology of the transitional waters a <i>Natura 2000</i> protected special area of conservation.	The Cockle (Fisheries management and conservation) (Waterford Estuary) regulations 2007 S.I. No 531 of 2007 introduced a suite of conservation regulations for Waterford Harbour. The thrust of S.I. No 531 is to divide the area into control "boxes" in which harvesting would be regulated. Fishing can take place only at certain times of day, daily landings per vessel must be less than a certain weight, there is a size limit on cockles which can be removed (sub-sized must be returned to the water where they have been captured) and there are restrictions on the type of gear to be used. Finally, there is a requirement to report landings; such a regulation already exists in the format of a gatherers' docket but, hitherto that has not been enforced. As Waterford Harbour is also a SAC it is the responsibility of the competent national authority to authorise cockle extraction in a SAC under the provisions of the Habitats Directive but only when they are sure it will not adversely effect the integrity of the site. S.I. No 531 together with the provisions of the Habitats Directive need to be enforced and implemented with the Waterford Harbour area.



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Aquaculture		
Submission Reference No.	Issues Identified	Response
SE_SWMI_019	SACs need protection through planning and	The National Parks and Wildlife Service have a remit for the protection of
	conservation considerations.	Special Protection Area conservation sites and must prepare a conservation
		plan for each site. Activities within the sites should conform to
		conservation plan objectives. Breaches of plan objectives lie within the
		remit of NPWS.

3.3.2 Floods

Floods		
Submission Reference No.	Issues Identified	Response
SE_SWMI_017	Flood risk maps should be compiled with county	OPW flood maps are available on www.floodmaps.ie . Flood Hazard Maps
	development plans.	show information on a map about places that may be at risk from flooding.
SE_SWMI_017	Guidance both general and technical should be	The OPW is the responsible authority in this area.
	provided for people already based in flood risk areas.	
SE_SWMI_013	Floods have eroded the river banks- these should be restored with spindle, willow, hazel, buck thorn and alder whose roots would help contain soil and remove pollutants	If this is found to be affecting water quality remediation measures will be proposed.



3.3.3 Marine and estuarine issues

Marine and estuarine issue	Marine and estuarine issues		
Submission Reference No.	Issues Identified	Response	
SE_SWMI_009	Felt limited attention was given to pressures on the	'Water Matters' reports drew attention to the various pressures on	
SE_SWMI_003	coastal zone. Regulation of the coastal zone is poorly	estuarine and coastal waters, particularly with respect to physical changes.	
SE_SWMI_006	enforced and Ireland must implement a coherent	It drew attention to the absence of comprehensive system of control of	
	Integrated Coastal Zone Management Strategy for the	physical modifications. In preparation for the River Basin Management	
	area covered by the WFD (1 nautical mile from	Plan measures are being investigated for application in Ireland's	
	shore).	transitional and coastal waters, one of which is Integrated Coastal Zone	
		Management.	
		Recommendations for a more structured national framework for the	
		regulation of coastal activities are being outlined for consideration. A	
		review of national coastal regulation and integration is identified under the	
		'Sea Change' programme published by the Marine Institute.	
SE_SWMI_009	Queried the support of departments regulating the	River Basin Management Plans will help ensure appropriate consideration	
	marine environment to the implementation of the	of the marine environment during regulation. All Departments will be	
	Water Framework Directive.	required to comply with programmes of measures defined to meet the	
		WFD objectives.	
		Responsibilities relating to the regulation of coastal developments/	
		activities are currently being re-organised at Government level. A	
		structured national regulatory framework should clearly define the	
		responsibilities of each Department.	

3.3.4 Drinking Water

Drinking Water		
Submission Reference No.	Issues Identified	Response
SE_SWMI_013	Drinking Water Fluoridation	This matter was reviewed recently by the Department of Health and it was decided that the current policy should be retained subject to some changes,
		the most significant of which was the reduction in the concentration of fluoride.



3.3.5 Species Preservation

Species Preservation		
Submission Reference No.	Issues Identified	Response
SE_SWMI_020	Preserving existing species is very important. Captive breeding programmes should be undertaken for species, both animal and plant	A project to captively breed the freshwater mussel species, <i>Margaritifera durrovensis</i> , the Nore pearl mussel was initiated in late 2004 and the mussels moved to the fish farm May 2005. The two main objectives of this project are: (1) to provide necessary scientific advice and monitor the captive breeding programme for <i>Margaritifera durrovensis</i> , which will initially be funded by the NRA as part of its M7/M8 planning condition fulfilment; (2) to assess rivers within the Nore catchment as potential translocation sites for the natural population of <i>Margaritifera durrovensis</i> , as well as any mussels bred in captivity.
SE_SWMI_024	Completion of local biodiversity plans and penalties should be imposed for local authorities who do not compile them	As part of Ireland's commitment under the UN Convention on Biological Diversity, the then Department of Arts, Heritage, Gaeltacht and the Islands prepared a National Biodiversity Plan which seeks that two key measures be put in place by Local Authorities for general application in designated and non-designated sites; the preparation of a Local Authority Biodiversity Action Plan and the designation of a Natural Heritage Officer.

3.3.6 Species Preservation

Species Preservation	Species Preservation		
Submission Reference No.	Issues Identified	Response	
SE_SWMI_020	Preserving existing species is very important. Captive	A project to captively breed the freshwater mussel species, Margaritifera	
	breeding programmes should be undertaken for	durrovensis, the Nore pearl mussel was initiated in late 2004 and the	
	species, both animal and plant	mussels moved to the fish farm May 2005. The two main objectives of	
		this project are: (1) to provide necessary scientific advice and monitor the	
		captive breeding programme for <i>Margaritifera durrovensis</i> , which will	
		initially be funded by the NRA as part of its M7/M8 planning condition	
		fulfilment; (2) to assess rivers within the Nore catchment as potential	
		translocation sites for the natural population of Margaritifera durrovensis,	
		as well as any mussels bred in captivity.	



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Species Preservation		
Submission Reference No.	Issues Identified	Response
SE_SWMI_024	Completion of local biodiversity plans and penalties	As part of Ireland's commitment under the UN Convention on Biological
	should be imposed for local authorities who do not	Diversity, the then Department of Arts, Heritage, Gaeltacht and the Islands
	compile them	prepared a National Biodiversity Plan which seeks that two key measures
		be put in place by Local Authorities for general application in designated
		and non-designated sites; the preparation of a Local Authority Biodiversity
		Action Plan and the designation of a Natural Heritage Officer.

3.3.7 Groundwater

Groundwater		
Submission Reference No.	Issues Identified	Response
SE_SWMI_020	Mapping of geothermal unit sites is necessary as the	This issue will be addressed by the Groundwater Working Group.
	effects of high density geothermal units has on	
	groundwater bodies is not known.	
SE_SWMI_020	Called for collation of data base logs and also	GSI is the authority responsible for the collation of data base logs. They
	technical guidance should be made available on good	have published guidelines for the safe supply of drinking water and
	practice in drilling boreholes for the safe supply of	protection of the source.
	drinking water and protection of the source.	

3.3.8 Illegal Dumping

Illegal Dumping		
Submission Reference No.	Issues Identified	Response
SE_SWMI_018	Illegal dumping is causing a threat to rivers,	The Local Authorities have been issued with Guidance from the EPA and
SE_SWMI_020	groundwater and drinking water supply.	have been carrying out risk assessments and developing inventories of
	Potential sites for illegal dumping should be mapped	illegal dumping sites.
	and monitored by local authorities.	



3.3.9 Economics

Economics		
Submission Reference No.	Issues Identified	Response
SE_SWMI_009	Felt that economics should have been dealt with more thoroughly in the reports and that there was no provision of estimates of the costs of meeting the objectives of the WFD, or how the authorities intend to recover those costs.	An economic analysis of water use was completed for Article 5 of the Water Framework Directive. 'Water Matters – Have you say!' reports were written to inform the public of the significant water management issues in the River Basin District and seek their response. It was premature to deal with issues surrounding economics and assessment of cost effectiveness of measures in these initial 'Water Matters' reports, these issues will be dealt with the draft river basin management plan. The Water Services National Training group has commissioned the development of guidance and training for local authorities in the use of economics in the objective setting and decision making processes to determine the most appropriate and cost effective combination of measures to be implemented. This technical guidance and training will be rolled out in late 2008 and will be available as a background document to the draft river basin management plan. Substantial resources to implement the requirements of the Water Framework Directive.
SE_SWMI_009	The application of disproportionate cost analysis to justify alternative objectives to the achievement of Good Status by 2015 should be applied taking into account Common Implementation Strategy guidance on Economics and the Environment (Common Implementation Strategy for the Water Framework Directive (2000/60/EC), Guidance Document no. 1, <i>Economics and the Environment – The</i> <i>Implementation Challenge of the Water Framework</i> <i>Directive</i>).	The issue of disproportional cost analysis is currently being actively debated at EU level. The methodology for the application of disproportionate cost assessments will be clear and transparent and based on Common Implementation Strategy guidance on Economics and the Environment.
SE_SWMI_006	A truly sustainable approach is required. Social and economic requirements need to be set within environmental limits in order for development to be truly sustainable.	A wide range of social, economic and environmental costs and benefits are associated with the achievement of good status and will be considered.



3.3.10 Water charging

Water charging		
Submission Reference No.	Issues Identified	Response
SE_SWMI_003	Felt water charging is necessary for all users.	The Government's National Water Pricing Policy Framework, 1998
		requires all non-domestic customers to be charged for water and
		wastewater services. This is in line with national and EU policy on the
		'polluter pays' principle. The Framework also provides for the recovery of
		domestic capital costs through the Exchequer and domestic operational
		costs through the Local Government Fund. This is permitted under the
		Water Framework Directive, as it is an established practice that does not
		compromise the objectives of the Directive.
SE_SWMI_008	Stated it was inappropriate for farmers to pay for	
	water leakage outside the farm gate, much of which is	purpose' water distribution systems and ensure leakage detection
	due to historical under investment by local authorities	programmes are implemented. The universal installation of water meters
	in infrastructure.	for non-domestic customers is required to ensure that users are charged
		fairly and was completed in 2006.
SE_SWMI_008	Proposed the introduction of a livestock water rate	Under the Government's Water Pricing Policy Framework, all non-
	that reflects the water requirements of livestock as	domestic consumers of water are to be charged by local authorities for the
	opposed to humans.	supply of water. The policy ensures that non domestic consumers benefit
		from a fair and equitable system of charging. They are only charged for
		metered water use. The cost of supplying water to the consumer is the
		same regardless of the end-use.



3.3.12 Development pressure

Development pressure		
Submission Reference No.	Issues Identified	Response
SE_SWMI_009	Development and planning is the most serious threat to water quality and lack of integration of planning is core to this.	Strategic Environmental Assessment (SEA) is required under the Planning and Development (Strategic Environmental Assessment) Regulations 2004 (SI 436 of 2004) in the case of Regional Planning Guidelines, County Development Plans, and Local Area Plans. The 2004 Regulations give
SE_SWMI_008	Note the lack of coherent town planning.	effect to the SEA Directive in the land-use planning sector. SEA is the formal, systematic evaluation of the likely significant environmental
SE_SWMI_005	Strong enforcement policy is required by all planning authorities, who in turn must be sufficiently resourced, both financially and in terms of personnel, to ensure developments of all kinds comply with planning and development legislation.	effects of implementing a plan or programme before a decision is made to adopt the plan or programme The assessment must take into account the impact that the development plan will have on the wider environment, including water. General guidance on the relationship between land use and spatial planning and river basin planning was published in recent guidelines from the Department of Environment, Heritage and Local Government. Further guidance to planning authorities on this issue will be prepared by DEHLG.
		Development Management Guidelines have been drafted by the Department of Environment, Heritage and Local Government (DEHLG) and are available from: http://www.environ.ie/en/Publications/DevelopmentandHousing/Planning/ FileDownLoad,14467,en.pdf These are statutory guidelines to which planning authorities must have regard in the exercise of their functions and stress the importance of planning enforcement. The guidelines recognise that enforcement is critical to ensure that the planning control system works properly. The guidelines also highlight the importance that planning authorities ensure that adequate resources are allocated to enforcement activities. DEHLG have also developed proposed revisions to planning fees under the Planning and Development Act, 2000, which is an important step in the commitment to resourcing the planning system.



Development pressure		
Submission Reference No.	Issues Identified	Response
SE_SWMI_022	Housing development should not go ahead until	Where an overloaded sewage treatment plant is causing deterioration in
SE_SWMI_024	sewerage and water facilities are put in place	water status or is preventing the achievement of at least good status in a
		receiving water measures will be required to be taken. These measures
SE_SWMI_022	Zoning should involve a study to be carried out to	may include a moratorium on development in the area served by the plant.
	ensure that existing wastewater treatment plants are	However, other measures will also be considered.
	adequate to carry such development	The provision of water and sewerage investment programmes by planning outhorities must be related to the gening and seguencing of residential
		authorities must be related to the zoning and sequencing of residential lands and be integrated with the provision of public transport, schools,
		community and leisure facilities.
SE_SWMI_022	No development within 30m of rivers and streams	Planning authorities ensure that best practice is adhered to and all relevant
		risks are assessed when analysing planning applications for developments.
		The Planning and Development Regulations 2006 require that planning
		authorities notify and take advice from Regional Fisheries Boards of
		developments that would involve the carrying out of works in, over, along
		or adjacent to the banks of waters and to ensure that existing rights of way
SE_SWMI_022	All large scale developments should be subject to an	and access to river banks is maintained. The Environmental Impact Assessment Directive (85/337/EEC), as
SE_SWIVII_022	EIS	amended by Council Directive 97/11/EC and by Article 3 of Directive
		2003/35/EC (to improve the rights for public participation) requires an
		Environmental Impact Statement to be prepared for certain development
		projects such as large-scale industrial or infrastructure projects.
		The Environmental Impact Assessment and production of an
SE_SWMI_024	Planning law requires the developer to carry out	Environmental Impact Statement (EIS) is commissioned by the developer.
	ecological assessments and as a result they are not	The EIS is consulted on widely and any member of the public or any
	truly objective	organisation may comment on the project and its possible environmental
		effects. These comments must be taken into account by the planning authority.
SE_SWMI_017	Developers can cause high levels of pollution and then	The long term impacts of all developments are considered during the
	simply disappear. While bonds are sought for the	planning approval stage.
	building phase a similar method over say 30 years	This will be brought to the attention of the relevant bodies for inclusion as
	could be sought for environmental impacts.	a supplementary measure.



Development pressure		
Submission Reference No.	Issues Identified	Response
SE_SWMI_024	Development has been a direct consequence in the decline in the Nore Pearl Mussel Populations and didn't get enough emphasis in this report	The NPWS are addressing this issue and are preparing management plans for the Nore catchment to protect the Nore Pearl Mussel populations from further decline
SE_SWMI_024	Not enough supervision is carried out during construction works	Planning authorities inspect significant developments at critical stages during the construction phase.
	Silting of rivers as a result of construction works is an issue	Measures to prevent silting of river beds during construction are undertaken for major road works etc.
SE_SWMI_024	Opportunities to modify and integrate existing landscape features into developments/ roadworks are overlooked for more destructive practices	Planning authorities ensure that where possible existing landscape features are incorporated into developments. The National Roads Authority has developed a series of environmental guidelines to facilitate further the integration of various environmental issues into national road scheme planning. They promote integration of the various cultural, social and ecological aspects of landscape into road scheme planning.
SE_SWMI_024	Areas that are not designated are not given adequate assessment prior to granting permission Planning permission should not be granted if there is not enough resources to make a proper assessment	Assessment of a planning application is carried out by a planner who has sufficient knowledge of the site in question to enable them to carry out an accurate assessment of the impact of the proposed development.
SE_SWMI_024	The law does not specify buffer zones around protected areas. Modifications may thus take place too close to waterways exacerbating problems of run-of and silting.	All Protected areas must meet their objectives by 2015 without any exceptions this will involve taking into account all pressures on the protected areas including those outside the boundary of the protected areas.
SE_SWMI_024	Suggested that an overhaul of the planning process is necessary	Local authorities will be required to realign planning policy in line with water policy within the provisions of the Planning and Development Act 2000.
SE_SWMI_024	Suggested that the Rural Housing Plan has failed and should be replaced with a sustainable plan	The WRBD On-site wastewater treatment systems study will propose measures to alleviate the issue of pollution from unsewered properties



Development pressure		
Submission Reference No.	Issues Identified	Response
SE_SWMI_018	SEA of NDP should take place to gauge impact of road construction	Strategic Environmental Assessment (SEA) is the process by which environmental considerations are required to be fully integrated into the preparation and adoption of plans and programmes. Strategic Environmental Assessment is required for all major plans and programmes. Strategic Environmental Assessment applied to plans whose formal preparation or review commenced after 21 st July 2004. Under the National Development Plan 2007-2013 under the roads sub- programme, some €13.3 billion will be invested in national roads and €4.3 billion in non-national roads. All major infrastructure developments such as road construction require Environmental Impact Assessment.
SE_SWMI_016	Road and housing estates run-off should go through a settling system, possible an artificial lake, then diverted through a pebbled reed bed system	All major infrastructure developments incorporate Sustainable Urban Drainage Systems (SuDS). SuDS techniques ensure that water is either infiltrated or conveyed more slowly to water courses via ponds, swales, filter drains, through the use of permeable paving or other installations. New roads have SuDS features incorporated into their design.
SE_SWMI_022	Road runoff should have proper inceptors.	
SE_SWMI_024	Suggested monitoring of watercourses adjacent to roads	A large number of rivers are routinely monitored downstream of bridges for ease of access. Under Ireland's WFD monitoring programme three types of monitoring are completed – surveillance, operational and investigative. Surveillance monitoring involves monitoring watercourses at strategic points to ensure that the results are representative of the overall status of the water body and to detect long term trends. Operational monitoring targets sites to determine the status of water bodies that are at risk of failing the objectives of the WFD and to determine the effectiveness of the programme of measures. Investigative monitoring is used to determine the reason for exceedances and to investigate accidental pollution incidents.



3.3.13 Resources

Resources		
Submission Reference No.	Issues Identified	Response
SE_SWMI_002	There was concern about the current capacity of local	The philosophy of the Water Framework Directive is to have a holistic
SE_SWMI_003	authorities and their ability to act as the competent	approach to the maintenance and improvement, where necessary, of the
SE_SWMI_009	authority for the implementation of the WFD.	water environment. Local authorities have a very significant involvement
	Acknowledge the resource limitations under which	in this work at present, e.g. the collection and treatment of sewage, the
	local authorities operate. There is a recognised deficit	abstraction and treatment of water for drinking supplies, the investigation
	of biologists and ecologists in Environment Sections	and elimination of water pollution by the industrial and agricultural sectors
	in local authorities. There should be a full review of	and looking after aquatic amenities such as beaches. Therefore, it is
	the current public sector staffing policy.	logical that local authorities would be given the central role in
		implementing the directive. While there are many staff and considerable
		money devoted to these tasks there will always be a desire of improved
		performance and additional resources would help in this regard.



3.3.8 Public participation / ed	ucation / awareness
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Public participation / education / awareness		
Submission Reference No.	Issues Identified	Response
SE_SWMI_009	Public participation is not a direct management issue but a significant horizontal issue. Effective public participation is key to the success of the WFD and should be treated with the same gravity as the other issues identified.	 Public participation has been a significant part of the implementation of the Water Framework Directive in the South Eastern River Basin Districts. The South Eastern Advisory Council is providing valuable guidance during the preparation of the River Basin Management Plan. A series of public meetings were held in the district on '<i>Water Matters – Have your say!</i>' reports. Public participation has been a significant part of the implementation of the Water Framework Directive. Provision to allow for effective and structured public participation was enshrined in the legislation (Water Policy Regulations, SI 722 of 2003) transposing the WFD into Irish law by requiring the establishment of Advisory Councils in each RBD, membership of which is open to any member/group and is publicly advertised. In addition literature is produced as required and made freely available through the network of local authority offices and libraries, and other public authorities such as the Regional Fisheries Boards. A websites was set up for each RBD and is regularly updated. A further series of public meetings will be held for consultation on the draft RBMP. Also RBD and local authority staff regularly participate in events organized by NGOs and other agencies.



Public participation / education / awareness		
Submission Reference No.	Issues Identified	Response
SE_SWMI_009	No connection is made between the general public and members of the Advisory Councils in the reports. Names of members and contact details should be clearly presented in reports. There is no transparency or public awareness of what the Advisory Councils do.	Irish legislation (Water Policy Regulations, SI 722 of 2003) required the relevant local authorities to prepare and publish an overview of the significant water management issues identified in the river basin district. The function and make-up of the Advisory Council is explained under the heading "Using local expertise." The names and nominating organisations of the South Eastern Advisory Council members will be made available through the draft river basin management plan. They are currently available on the South Eastern website. The Advisory Council provides an effective forum for the exchange of information and opinions between elected representatives, nominees of sectoral interests and project staff. It is acknowledged that there is not widespread knowledge of the role or activities of the Advisory Council.
SE_SWMI_009	Feedback form Advisory Council members recommended that more time should be given to active dialogue amongst members instead of presentation based meetings. Members also feel that since their advice to management committees is non- binding it renders them ineffective and powerless.	The early meetings of the South Eastern Advisory Councils were weighted towards dissemination of information to members. It was necessary to ensure that members were made aware of the extent and detail of the work being carried out. Latterly, meetings have been more balanced with ample opportunities for members to raise issues and to interrogate the information being provided. By its nature it is necessary to have presentations to get information and key messages/issues across to members. However, workshop formats are regularly used in the Advisory Council to allow active dialogue among members.
SE_SWMI_009	There has been no facilitation of cross border sectors in WFD participation to date, with Advisory Councils and the National Stakeholder Forum in NI operating independently.	Members of the Northern Ireland National Stakeholder Forum attended the second national conference for River Basin District Advisory Council members. Officials from Environment and Heritage Service Northern Ireland attended both the first and second conference. Further liaison would be beneficial.
SE_SWMI_009	Advertising needs to be done extensively and effectively in the relevant local areas before WFD public participation meetings.	Public meetings were recently held as part of the Significant Water Management Issues consultation in the South Eastern District. Several methods of attracting members of the public to the meetings were used including direct mail, email notification, media advertisement, interviews on radio and articles in newspapers. None the less, attendances have been relatively low.



Public participation / educa	Public participation / education / awareness		
Submission Reference No.	Issues Identified	Response	
SE_SWMI_002 SE_SWMI_009	There is a lack of awareness of the value of water by the general public. Called for a national TV campaign on water and its	A national campaign could contribute to the raising of awareness of the value of water. Consideration is being given to the merits of such a campaign. Work will be required to determine the scope of such a	
	importance, and the prohibition of phosphorous in detergent could be used as a 'carrier' for wider public relations relating to the WFD.	campaign, the audiences to be targeted, the messages to be conveyed, and the most appropriate timing.	
SE_SWMI_002	Local activism should be fostered and there should be reference to community engagement in catchment management initiatives.	Support for local groups can be best provided by local authorities though their environmental awareness officers.	
SE_SWMI_003 SE_SWMI_009	Felt that the report does not make sufficiently clear the link between feedback on the SWMI and the process of drafting the draft River Basin management Plan.	The purpose of the Water Matters report was to set out what the main water issues are in the RBD and how it is proposed to address them in the River Basin Management Plan. It is a public consultation document to raise awareness among the general public of the whole river basin planning process and provide opportunity for comment from the public on the suggested actions. Submissions received from the 6 month consultation period on the significant water management issues are currently being incorporated into the draft River Basin Management Plan. Organisations and individuals who identified important issues during the consultation period will be able to see their comments reflected in the plan and identify how they will be addressed through the Programme of Measures. There will be a further opportunity to shape the River Basin Management Plan during the 6 month consultation period on the plan from December this year. If stakeholders feel their submissions have not been adequately dealt with in this digest or the draft plan, further representation can be made.	
SE_SWMI_017	Householders should be receiving a regular "information and education leaflet", on all aspects of water supply and wastewater treatment, including the impact on the environment	Awareness campaigns are proposed as supplementary measures.	
SE_SWMI_017	The overall programme should be used in all publications together with the logo; this will introduce an element of continuity.	The River Basin Management Plan will continue in a similar format to the Water Matters booklet	



Public participation / educa	Public participation / education / awareness		
Submission Reference No.	Issues Identified	Response	
SE_SWMI_017	Use must be made of promotional materials and competitions for all ages. Individual should be encouraged to register with the web site and prizes might help.	Prizes are used to encourage involvement at Public Participation events	
SE_SWMI_017	The web site should be updated.	The SERBD website was updated in Jan 2008	
SE_SWMI_017	The development of GIS provides the ideal tool for the dissemination of information, and the prevention of unsuitable development in defined areas.	A WebGIS tool will be made available to the public with the RBMP in December 2009.	
SE_SWMI_020	Higher visibility is needed: Use of roadsigns to denoted entrance into a RBD on main transport links	This idea will be passed to the Public Participation Working Group for possible inclusion in any education awareness campaigns.	
SE_SWMI_024	The input of the stakeholder with the objective of restoring water quality in the region is not clearly visible in the report. The structure of the Advisory Council has too high a representation from Councillors and profit based stakeholders and not enough NGOs.	This will be clarified in the RBMP.	
SE_SWMI_024	Creation of SWAN has led to silencing of members in calling publicly for water issues to be addressees. The Environmental NGO viewpoint is not having an impact.	This is an issue for the NGOs.	
SE_SWMI_024	Felt that the there is not a high degree of public involvement in the WFD implementation	Public participation has been a significant part of the implementation of the Water Framework Directive in the SERBD. The SERBD Advisory Council is providing valuable guidance during the preparation of the River Basin Management Plan. A series of public meetings were held, number of presentations has been given and the SERBD have been represented at many national and local events.	



3.3.14 General comments on the 'Water Matters – Have Your Say!' reports

General comments on the 'Water Matters – Have Your Say!' reports		
Submission Reference No.	Issues Identified	Response
SE_SWMI_009	Ambiguous language in sections relating to actions	The River Basin Management Plan will encompass a programme of
SE_SWMI_003	that will be implemented to address water	measures. The measures proposed are being informed by studies that are
SE_SWMI_018	management issues. Feel that in many of the chapters	only now coming to completion. It would have been premature to provide
	no concrete actions have been proposed. Some of the	details of measures in 'Water Matters'. The draft River Basin
	measures that were put forward were accompanied by	Management Plan will detail the programme of measures and a web
	qualifiers and vague language.	mapping tool will allow users to identify objectives and measures for individual water bodies.
SE_SWMI_009	It is felt that recent improvements in water quality	'Water Matters' referred to improvements which had been noted by the
	have been overstated in the report. Additionally it is	EPA in the 'Water Quality in Ireland 2006 – Key Indicators of the Aquatic
	felt that failings to meet the current measures were not	Environment' report. See
	highlighted adequately.	http://www.epa.ie/downloads/pubs/water/indicators/name,23540,en.html
		for the full report. With regard to historical failures the emphasis was put
CE CNAM 002		on achieving the new water quality standards rather than looking back.
SE_SWMI_003	Noted that a number of the references to background	The South Eastere RBD website has been up-dated and it should now be
SE_SWMI_009	documents within the Water Matters reports were difficult to find on the RBD websites.	possible to access the documents referred to in 'Water Matters'.
SE_SWMI_009	Concern about the access to geographical data because	The RBD project teams have been working with the County and City
	of the limitations of current Ordnance Survey	Managers' Association and Ordnance Survey Ireland to provide a full
	Licensing procedures.	geographical database which will make it easy for members of the public
		to obtain data. Information on water bodies, risk assessments, water
		quality etc. can be currently accessed through the Environmental
		Protection Agency's ENVision system at <u>http://maps.epa.ie</u> .
SE_SWMI_017	All people who responded should be included in a	A database has been created of people/organisations that submitted a
	database and all other relevant correspondence should be sent to them	response to the consultation and Significant Water Management Issues
		Digests and any other relevant correspondence will be distributed to all participants. The South Eastern RBD website will also be used to
		disseminate information to the public and comments or queries can be
		addressed to the website.



South Eastern River Basin District

General comments on the 'Water Matters – Have Your Say!' reports		
Submission Reference No.	Issues Identified	Response
SE_SWMI_017	The introduction should have used a scoping process	'Water Matters - Have your say!' reports were produced to inform the
SE_SWMI_024	and / or a matrix	general public of the significant water management issues in the River
		Basin District and to identify whether the most important issues had been
		identified using accessible language. The use of a scoping process or
		matrix would have over-complicated the document.
SE_SWMI_017	The use of the word pollution in the document creates	The use of the word 'pollution' referred to inadequately treated wastewater
	the wrong impression in relation to WWTP discharges	effluent which contains pollutants such as nutrients, bacteria, organic
	and suggests that the treated water should not be	material or dangerous substances.
	discharged to a watercourse	

3.3.15 General Recommendations

General Recommendations		
Submission Reference No.	Issues Identified	Response
SE_SWMI_017	The management and coordination of the plan will require a much greater degree of cooperation than appears to exist at present.	Local authorities are putting in place plans to set up regional offices to ensure that Water Framework Directive activities are co-ordinated on a River Basin District level. One of the roles of the offices will be to support and co-ordinate the issue of Section 4 licenses by the constituent local authorities.
SE_SWMI_020	Cognisance to be taken of all submission to each RBD	All submissions have been analysed and addressed as appropriate in the digest.
SE_SWMI_024	NPWS are under resourced. Suggested an increase in manpower	The National Parks and Wildlife Service (NPWS) is part of the Department of Environment, Heritage and Local Government (DEHLG). Resources are committed for the DEHLG and the NPWS arising out of responsibilities to implement the Water Framework Directive. The Minister of the Environment recently announced that extra resources will be made available to the National Parks and Wildlife Service.
SE_SWMI_024	EPA monitoring should be accessible to the public	EPA monitoring can be accessed online through their ENVision map system where information on river, lake, coastal, estuarine and groundwater quality can be viewed though <u>www.epa.ie</u> Water quality reports are also available on the site.



3.3.16 Species Preservation

Species Preservation		
Submission Reference No.	Issues Identified	Response
SE_SWMI_020	Preserving existing species is very important. Captive breeding programmes should be undertaken for species, both animal and plant	A project to captively breed the freshwater mussel species, <i>Margaritifera durrovensis</i> , the Nore pearl mussel was initiated in late 2004 and the mussels moved to the fish farm May 2005. The two main objectives of this project are: (1) to provide necessary scientific advice and monitor the captive breeding programme for <i>Margaritifera durrovensis</i> , which will initially be funded by the NRA as part of its M7/M8 planning condition fulfilment; (2) to assess rivers within the Nore catchment as potential translocation sites for the natural population of <i>Margaritifera durrovensis</i> , as well as any mussels bred in captivity.
SE_SWMI_024	Completion of local biodiversity plans and penalties should be imposed for local authorities who do not compile them	As part of Ireland's commitment under the UN Convention on Biological Diversity, the then Department of Arts, Heritage, Gaeltacht and the Islands prepared a National Biodiversity Plan which seeks that two key measures be put in place by Local Authorities for general application in designated and non-designated sites; the preparation of a Local Authority Biodiversity Action Plan and the designation of a Natural Heritage Officer.

3.3.17 Groundwater

Groundwater		
Submission Reference No.	Issues Identified	Response
SE_SWMI_020	Mapping of geothermal unit sites is necessary as the	This issue will be addressed by the Groundwater Working Group.
	effects of high density geothermal units has on	
	groundwater bodies is not known.	
SE_SWMI_020	Called for collation of data base logs and also	GSI is the authority responsible for the collation of data base logs. They
	technical guidance should be made available on good	have published guidelines for the safe supply of drinking water and
	practice in drilling boreholes for the safe supply of	protection of the source.
	drinking water and protection of the source.	



4.0 What happens next?

The local authorities responsible for implementation of the WFD in the South Eastern River Basin District are committed to considering the comments received through this recent consultation exercise during preparation of draft management plans. Submissions will help to refine and inform the specific content of the plans.

Draft River Basin Management Plans will be published for public consultation by 22^{nd} December 2008. The consultation will run until 22^{nd} June 2009. We would therefore encourage all those with an interest in the protection and enhancement of the aquatic environment to fully participate in the consultation process.

5.0 References

County Councils

Carlow County Council Wexford County Council Kilkenny County Council Waterford County Council South Tipperary County Council Laois County Council North Tipperary County Council Kildare County Council Offaly County Council Wicklow County Council Waterford City Council Limerick County Council Cork County Council

Website

http://www.carlow.ie/ http://www.wexford.ie/ http://www.wexford.ie/ http://www.kilkennycoco.ie/ http://www.waterfordcoco.ie/ http://www.southippcoco.ie/ http://www.laois.ie/ http://www.laois.ie/ http://www.northtipcoco.ie/ http://www.northtipcoco.ie/ http://www.offaly.ie/ http://www.offaly.ie/ http://www.waterfordcity.ie http://www.lcc.ie http://www.corkcoco.ie

Departments / Agencies etc.

Central Fisheries Board Department of Agriculture, Fisheries and Food Department of Communications, Energy and Natural Resources Department of Community, Rural & Gaeltacht Affairs Department of Enterprise, Trade and Employment Department of Environment, Heritage and Local Government Electricity Supply Board Environmental Protection Agency Fáilte Ireland Forest Service

<u>Website</u>

http://www.cfb.ie/ http://www.agriculture.gov.ie/ http://www.dcmnr.gov.ie/ http://www.pobail.ie/ http://www.entemp.ie/ http://www.environ.ie/en/ http://www.esb.ie/ http://www.epa.ie http://www.failteireland.ie/

http://www.agriculture.gov.ie/index.jsp?file=forestry/pages/forest_service.xml

Geological Survey of Ireland Health and Safety Authority Heritage Council Irish Medicines Board /forest_service.xml http://www.gsi.ie/ http://www.hsa.ie/eng/ http://www.heritagecouncil.ie/ http://www.imb.ie/



South Eastern River Basin District

Local Government Computer Services Board Marine Institute National Federation of Group Water Schemes National Parks and Wildlife Service Office of Public Works Radiological Protection Institute of Ireland Southern Regional Authority Southern Regional Fisheries Board Sustainable Energy Ireland Teagasc Waterways Ireland http://www.lgcsb.ie/ http://www.marine.ie/Home/ http://www.nfgws.ie/ http://www.npws.ie/en/ http://www.opw.ie/ http://www.opw.ie/ http://www.rpii.ie/ http://www.sera.ie http://www.sera.ie http://www.sei.ie http://www.teagasc.ie/ http://www.waterwaysireland.org/

Regulations

European Communities (Drinking Water) Regulations 2007 ((S.I. No. 106/2007)
European Communities (Water Policy) Regulations, 2003 (S.I. No. 722/2003)
European Communities (Water Policy) (Amendment) Regulations 2005 (S.I. 413/2005) current
Amendment (2008)?
European Communities (Natural Habitats) Regulations 1997, 1998 and 2005 (S.I. No. 364/2005)
European Communities (Good Agricultural Practice for the Protection of Waters) Regulations (S.I. No. 378/2006)
European Communities (Environmental Impact Assessment) (Amendment) Regulations, 2001. (S.I. No. 538/2001)
European Communities (Aerial Fertilisation) (Forestry) Regulations 2006 (S.I. No. 592/2006)
Waste Management (Use of sewage sludge in agriculture) Regulations 1998, 2001 (S.I. No. 267/2001)
Wastewater Discharge (Authorisation) Regulations 2007 (S.I. No. 684/2007)
Quality of Shellfish Waters Regulations 2006 (S.I. No. 268/2006)

Acts / Orders

Local Government (Water Pollution) (Amendment) Act, 1990 Arterial Drainage Act, 1945 Planning & Development Act, 2000 Forestry Act, 1946 Protection of the Environment Act, 1993 Wildlife Act, 1976 Foreshore Act, 1933 Fisheries (Amendment) Act, 1997 Sea Fish Conservation Act, 1967 Protection of the Environment Act, 2003 Waste Management Act, 1996 Environmental Protection Agency Act, 1992 Mussel Seed (Conservation of Stocks) Order 1987 as amended by the Mussel Seed (Conservation and Rational Exploitation) Order 2003



<u>Appendix 1</u>

Questions asked in the 'Water Matters - Have your say!' booklets.

Q1. Do you agree that these are the key causes of water problems within the South Eastern district?

Q2. What is your view of these suggested themes? Have we missed something that would be helpful within the South Eastern district?

Q3. What is your view about the suggested actions to control problems related to wastewater and industrial discharge within the South Eastern district? Are these actions appropriate? Have we missed something important?

Q4. What is your view about the suggested actions to control problems related to landfills, quarries, mines and contaminated lands within the South Eastern district? Are these actions appropriate? Have we missed something important?

Q5. What is your view about the suggested actions to control problems related agriculture within the South Eastern district? Are these actions appropriate? Have we missed something important?

Q6. What is your view about the suggested actions to control problems related to unsewered properties within the South Eastern district? Are these actions appropriate? Have we missed something important?

Q7. What is your view about the suggested actions to control problems related to forestry within the South Eastern district? Are these actions appropriate? Have we missed something important?

Q8. What is your view about the suggested actions to control problems related to dangerous substances within the South Eastern district? Are these actions appropriate? Have we missed something important?

Q9. What is your view about the suggested actions to control problems related to physical modifications within the South Eastern district? Are these actions appropriate? Have we missed something important?

Q10. What is your view about the suggested actions to control problems related to abstraction within the South Eastern district? Are these actions appropriate? Have we missed something important?

Q11. What is your view about the suggested actions to control problems related alien species within the South Eastern district?

Q12. What is your view about the suggested actions to address sensitive area problems within the South Eastern district?



Appendix 2

SERBD Public Meetings Summary

Meeting 1: Kilkenny 19th November 2007

Attendance: 15 people + 2 Local Authority Staff

General queries/discussion

• How was SERBD structure set up?

• There is a need to be open about the information and the real problems for water quality– this will help LAs get funding

- However with openness there is a responsibility to handle the information to avoid panic
- Development pressure will take along time for infrastructure to catch up
- Ireland allows planning to take place before infrastructure GB doesn't

• The EPA monitoring programme has errors – eg Nuenna river sample point is not downstream of the discharge points – also dependence on the county council data queried – there is a need to be able to stand over the data

• LA have resource restrictions to deal with water quality

• Water pricing policy should be considered – the one off charge for development is not adequate and for example does not cover running costs of treatment facilities

- Climate change affecting bird populations the importance of protected areas is becoming more publicly acceptable
- Global warming is having an effect on habitats, specifically, and on the temperature of rivers.
- Funds needed to implement RBMPs

• Increasing habitats and biodiversity would form a natural barrier preventing pollution from entering waters, for example siting artificial lakes to catch runoff from roads

- Education on water conservation is very important
- VAT reductions on eco-friendly goods
- Climate change should be taken into consideration
- Cobblestones or similar should be used rather than concrete in carparks and driveways

Municipal and Industrial WWTP

- How many plants need treatment upgrades?
- Are upgrades able to accommodate the high level of development and growth in the district?

• Macerators should be banned as they raise the BOD of the waste that needs to be processed by WWTPs. Place added pressure on treatment plants.

• The Kilkenny draft county development plan includes a policy discouraging the use of macerators.

- It is important to separate sewage and storm overflow
- Fines should be increased for industrial polluters
- It is important to separate sewage and storm overflow
- Fines should be increased for industrial polluters



Abstractions

- Groundwater sources are not well controlled
- Water conservation should be considered eg the Kilkenny pilot
- Effect of global warming combined with abstractions will be detrimental

• Issue of Barrow as possible abstraction for Dublin- water levels in the Barrow have already reduced significantly in the past 20 years.

• Trans-catchment transfer of water shouldn't b permitted. Is already happening between the Slaney and the Barrow through the abstraction at Rathvilly for Carlow.

- Water conservation programmes
- Water charges

• The Eastern RBD Abstraction study: should produce required average daily flows (ADF) required for good status. Some studies work on average annual flow which is meaningless.

• Could dams be installed in the headwater regions to provide water supply for low-flow months?

• New homes should have sustainable urban drainage technology such as underground tanks for storing rainwater to be used for washing machines and to flush toilets or even just water butts. This requirement should be part of the planning process. Water pricing would provide an incentive to use these types of technologies.

• The impacts on surface waters of groundwater abstractions should be considered.

Septic Tanks

• Do development schemes come into planning system – better control and guidance needed for creeping development?

• Taxes have been invested for urban infrastructure – the same should apply to septic tanks in rural areas as the owner should not be unduly penalised

- Licensing of septic tanks should be brought in
- Kilkenny SPC wrote to the Minister of the Environment suggesting that grants be available for upgrade of septic tanks and for group water schemes. The Minister said he would consider this.

Dangerous Substances

There should be a tax on chemicals that affect septic tank operation

• Use of environmentally friendly detergents and house hold products should be encouraged through incentives

Protected Areas

There are still exemptions to SAC designations

Agriculture

• Tillage, nutrients and pesticides are potential impacts in SE due to soils and practices

• A seachange is occurring in the farming community- a new generation of farmers is bringing improvement to general understanding of environmental implications of management practices. The LAs commission the EPA to do river quality monitoring. The results for Kilkenny, for example, are reviewed. The last report identified the River Glory and the river Breagagh as having water quality problems. Farm surveys have been undertaken and schedules of works agreed and commenced. For the Breagagh, a programme of works is starting in early 2008.

• Farmers should be encouraged to bio-digest their animal wastes for fuel.

Water charges & leaks



• If the consumer had to pay for water it would be treated differently. Less wastefully. Currently, fully treated drinking water for toilets and farm cleaning.

• Rainwater should be harvested for use for such purposes, & for use in gardens.

• Until water conservation is incentivised, it won't be conserved. The plastic bag levy worked very well in reducing use. A change of attitude is needed regarding water use.

• It is a standard condition of planning that each house built must now have a water meter.

• Issue of loss of water from leaking pipes. Current leakage levels are unacceptable. Problem is, if the system is if leaks are repaired in one section, it increases pressure elsewhere in the system and new leaks will occur. Improving the infrastructure is a government resource issue and investment needed to implement improvements.

• If leaks were addressed, charging would be better received.

Public participation

- The project should include not just input from the public but their participation
- A booklet/programme should be put together for children
- A promotional scheme such as the "Race against waste" should take place for Water Matters

Pump-out Facilities

• Not enough pump-out facilities are provided for pleasure boats on the River Barrow. There is one in Carlow Town Park but there is a need for more around Graiguenamangh (where last weekend there were 67 boats moored- and no pump-out) and other areas on the Barrow. If the council put them in then Waterways Ireland would maintain them.

• There is an impasse whereby Waterways Ireland will maintain if the Local Authority will install them as they are on Local Authority property.

Pump-out facilities are very poor in some areas and need to be improved

Barriers to continuity

• Some small weirs can pose barriers. \concern is not just to salmon but for Sea lamrey and other species also.

Salmonid Waters' Designations

• Why is just the Nore main channel designated as salmonid? Many of the major tributaries should also be designated salmonid.

Biological Monitoring

• Some cross-checking between different countries methods used is necessary.

Alien Species

• This is a very important issue which has ruined some waters in the southeast



Meeting 2: Portlaoise 20th November 2007 Attendance: 6 people

General queries/discussion

- Why is the SE more polluted than other areas?
- Previous development planning eg gateway towns has not taken account of water quality impacts
- Good to have some positive information to give people
- Who will adopt the plan?
- Queries on how the blame for pollution is apportioned (agri sector) background not adequately addressed.

Municipal and Industrial WWTP

- Concern over systems in the area for small populations
- Separation of storm foul would help to prevent overflow
- Some plants in Laois have seen large investment and improvements but other face lack of capacity due to development
- Need to invest to allow future development
- Farmers observe pollution from small plants (also licensed discharges)

Abstractions

• Rainwater harvesting would be seen as a major benefit – farm organisations would support this type of initiative – find out about the Kilkenny pilot. Reps 4 is out at the moment- the REPS scheme provides a good opportunity for encouraging the harvesting of rain water.

• Farmers are considering sourcing gw supplies for non consumptive use. Farmers realise that using treated water for non-consumptive use is unnecessary.

• Water metering in a new scheme currently under construction in Ballacolla will provide info on domestic use – the all users are paying by volume. This is a public-private-partnership project pumping water from gw/spring. Any leaks will be readily apparent.

• Leakage reduction is being focussed on in Laois; currently stands at 50% leakage. Laois is trying to get this down to 30% which is the best that can be attained in a rural scheme.

Water Charges

• Water charging policies were seen as supportable if the water was of good quality and people are paying for what they use rather than supporting other users. It could be said that currently the feeling is that commercial users are paying for domestic users.

• Charging was acknowledged as necessary.

Septic Tanks

- Concern about the pollution contribution in some rural areas
- Lack of LA enforcement on new installations. There appears to be no follow up on planning conditions.
- Cavan studies are of interest

Dangerous Substances



- Effects of hormones that pass through treatment plants
- P free laundry detergents initiatives should be extended to dishwashers

Protected Areas

- What is the situation with the freshwater pearl mussel at Durrow?
- Need to ensure that protected uses are kept (bathing fishing boating)

Agriculture

• IFA are to make a national submission

■ The money invested in storage by farmers should be acknowledged (€1 billion) – evidenced by uptake in aggregates industry

- Laois had a high uptake of grants dealt with CoCo to get the applications processed
- Approach to farm surveys seen as very good example including direct contact with farming organisations there is concern that the legislation was forced from above and could be mis-used
- Grant schemes suspended 2 month in ineffective
- REPS 4 has some new measures eg preventing animals entering the rivers but doesn't include ability to look at alternative water sources (ditto grants not covering alternative sources)
- Concern on statement of review in 2009 what info will be available b that time

• Low cost storage solutions should be incorporated in the plan – planners seem reluctant to accept these

- Milk quotas are changing and cereal prices will dictate changes in practices
- New REPS should encourage catch crops

Forestry

- Acidification problems seen in some Slieve Bloom streams
- Newer planting is different

Other issues

- Boat pump outs need to be operated consistently. Joined-up thinking needed as currently there is an issue with too many parties involved and no clarity on who does what.
- Peat extraction has caused siltation problems
- Road runoff who will maintain SUDS? There is a problem of settling ponds at roadsides not being maintained and toxic sludge building up.



Meeting 3: Clonmel 21st November 2007

Attendance: 15 people + 5 Local Authority Staff

General Issues

• Resources needed in LAs. Should not just be paperwork. Need monitoring and maintenance. Proper training of LA staff

- Antisocial behaviour in towns driving people out to the coutry.
- Rubbish being dumped on river banks
- Car washes should be investigated an monitored
- Should be provision for the two Councils (North and South) to come together
- Walkways by rivers should be maintained to improve people's appreciation of rivers. Access across land running by rivers should be permitted
- Quarries

• There should be one clear point of contact for the public when dealing with the LA or the RBDs. The outcome of an investigation into a pollution event should be returned to the people who raised the issue.

• There should be clear guidance with all the regulations brought in and there should be a list of the people responsible attached. Advise similar to that given by Teagasc to farmers should be available for individuals when imputing a septic tank for example.

• Hydropower is something that will become important in years to come. There should be a clear guidance set out now before it becomes an issue.

Resources are required – both people and finances

• Growth in populations in towns has put all systems under pressure from water supply to treatment

- Flooding is increasing climate change role of floods directive
- Concern that the directive is going too far without considering the human needs and the sustainability arguments eg pearl mussels more important then people
- Public awareness need for a national campaign with TV ads (tie to drinking water), hard to get support at public meetings unless there is an issue

National Issues

- Waste water treatment plants are regarded to be huge polluters
- Ineffective enforcement:
- Old dump sites- closed landfills. None of these sites are lined. Just covered over with topsoil and left to leach into groundwater.

• Forestry is a major problem- trees planted right up to water course banks firstly, and secondly, the smothering of fish spawning beds when the forests are felled. Similar problem with the Pentlands and sedimentation. Removal of hedgerows has a similar effect.

Local Issues

- Loss of mayflies locally
- Algal growth due to P enrichment
- Toxic chemicals in the sediments of the Clodiagh near it's confluence with the Suir.

• Quarry close to Clonmel contains toxic chemicals- EPA say it is contained but everybody locally knows that when it rains there is significant toxic spillage.



• Disposal of dairywashings in holed in the ground as a milk enhancer is used that is not safe to spread on grass.

- Raw sewage entering the Suir in Clonmel at the end of Anglesea Street
- 12 houses with septic tanks that are not working.

• Apartments in Clonmel town that are not connected to a sewer. There is a soakpit that needs to be emptied every couple of months. This is not emptied regularly enough and so spillage direct to the Suir occurs.

Physical Modifications

- The cleaning of streams
- concern regarding the effects of the OPW flood alleviation works on habitat and fisheries.
- The river Anner- drained and habitat cleaned out of the river channel.

Good things

- Applauded the stopping of drift netting
- The Gle:nary Stream was awarded the Iasc award.
- REPS is good for the protection of hedgerows for biodiversity but also prevents erosion from the land and sedimentation of fish spawning beds from occurring.

Septic Tanks

• Should be in appropriate areas not in areas where there isn't any percolation. The old practice wasn't good.

- Septic tanks polluting groundwater in the area
- Should be doing investigations into septic tanks regularly
- Should be registration or licensing
- There should be mandatory testing to ensure they are working correctly
- On site waste water treatment plants for nursing homes and small hotels may not be efficient systems and they should also be monitored.

Flooding

- Development on floodplains
- Draining of wetlands
- Development takes precedence over everything

Municipal and Industrial WWTP

- Past improvement in treatment plant reduced water pollution which changes the fish stocks
- Poor investment in infrastructure behind development needs
- Sewerage sludge disposal needs to be considered
- Trend in macerators increase loading to plants could byelaws be consider (eg Dublin fats)

Abstractions

- Water conservation measures should be included
- Also alternative sources see agriculture
- Protection of water sources should be put in place
- New drinking water regulations EPA controls are ignoring the scale of the resource problem and demanding high standard drinking waters
- Car washes could water be reused?



Dangerous Substances

- Usage in gardens, households, car washes how far will licensing go
- Protected Areas
- Concern the SPAs are too close to the river bank not large enough area protected
- Need to retain river ban habitat

Agriculture

- Overgrazing problem in Comeraghs has caused runoff and pollution problems
- Links to precautionary boil water notice Glengary draining water source?- LA have taken action also stock levels noted to be lower than before
- Farmers are investing in storage infrastructure LA saw large increase in planning applications
- Grants are being paid to leave area beside the river unfertilised codes of good practices & REPS 4 initiative
- Restricting stock drinking points can this be a national requirement?
- Can alternative sources of water be provided for farm animals well grants are limited is a public supply can be provided but this is treated water

Physical modifications

- Overgrazing causing runoff and other drainage in catchments all contributing to increased spates and flooding
- Concern on floodplain loss eg Cappaquin

Other issues

Alien species must be addressed – some LAs are already taking an interest in these



Meeting 4: Enniscorthy 22nd November 2007

Attendance 13 people + 2 Local Authority staff

<u>Group 1</u>

General queries/discussion

- Resources are required
- Enforcement required
- Growth in population has put all systems under pressure
- Public awareness people think there is no problem unless fish are dead there is a food chain
- if the bed is smothered the insects won't be there for the fish
- Continuous monitoring is required to prevent pollution
- Solar panels are a fantastic investment
- There is a danger that people will grow tired of having their activities regulated
- Algal blooms are a particularly unpleasant result of pollution to waters
- People should be educated about the dangers to the environment of household chemicals
- Use of rainwater for cleaning. There should be guidance available on what you can do

Municipal and Industrial WWTP

• Sewerage systems in Co. Wexford performing poorly – upgrade proposals are out of date before they can be put in place

• Private developments given permission subject to on site system – was found that some house were connected to the main sewer – Carlow council eventually took action – the issue is council putting developers funds over the environment – the proposed solution is that the council should sign off the completion before occupancy

- EPA aren't forcing the councils to act quickly enough even after pollution incidents
- Plants are now going to be licensed
- Monitoring should be carried out by external body not by council.

Are reed beds useful? Reed beds used in Ferns WWTP are not working very well. It needs time before it will work as it should.

Abstractions

• The Slaney suffers from very low flow at Enniscorthy in drought periods – prevents life migration & damages tourism

- The main abstraction concern is at Rathvilly were water is transferred to the Barrow system
- Also smaller abstraction issues agricultural irrigation schemes/ Coillte– why aren't these taking water and storing it at flood times for irrigation
- Why can't EU prevent catchment transfers?
- Can Carlow obtain another source groundwater being considered but high in nitrates

• Abstraction from the Slaney, which started 25 years ago, is resulting in low flows which impacts on fishing, boating, recreation and the natural beauty of the river.

- Water pricing for domestic use should be introduced but a fair system must be put in place
- Grey water should be re-used in washing machines and to flush toilets
- Households should collect rainwater
- Any licenses for any abstractions should be made publicly available

Dangerous Substances



• Concern on the substances used in wash machines etc effecting septic tank operation

Agriculture

- Concern that riparian zone spreading width in CoGAP was reduced this is for some activities and the accuracy of spreaders has improved
- Some farmers are spreading in breach of the closed season

Physical modifications

- River needs some maintenance work to allow access and clear blockages but boards and councils are not interested trust working on this themselves
- Nore barriers to migration study is ongoing

Septic Tanks

- Restrictions are being put in place through planning requiring adequate land
- New technologies are available where sites require them
- Maintenance of septic tanks should be regulated and enforced
- Maintenance schedule should form part of planning permission
- Possible incentives for septic tanks improvements- a means tested grant system
- Soil type in the Owenavarragh Catchment may lead to pollution from septic tanks as there is not enough percolation
- Alternatives such as group schemes should be looked at especially in problem areas.
- An Taisce counting of septic tanks incorrectly
- Extra filtering of septic tanks
- Group agreed with registration system similar to Cavan Bye laws

Other issues

- Waste disposal illegal dumping to the rivers is a particular concern council undertake enforcement and had emergency response team in place
- Quarry and cement plant washings overflowing to river

Alien species

• Alien species pose a great threat to the environment, methods for preventing them should be investigated

Agriculture

- Use of fertiliser now controlled by REPS. The cost of nitrates and phosphate and nitrates has also increased so smaller quantities are being used
- Nitrates Action Programme should be more aligned to actual weather than time of year. This summer there was heavy rain regularly and it was not a suitable time for spreading.
- Silage run off is a major problem if it gets into river. This year the dilution was in the rivers but it should be closely checked other years.
- Possible sources of pollution in Wexford are smaller farmers who are outside the cross compliance schemes. Used of round feeders in inappropriate areas.

Drinking Water

• Ecoli in group water schemes



- Should be alarm system
- LA looking at paying a member of the scheme to monitor it and carryout routine maintenance.

Dangerous Substances

• There should be an educational programme on the more environmentally friendly products

