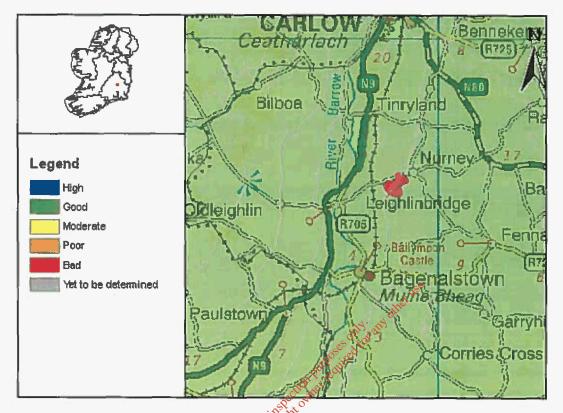


Grandwater

Full Report for Waterbody Barrow Valley_S



River Basin Management Plans (RBMPs) have been published for all River Basin Districts in Ireland in accordance with the requirements of the Water Framework Directive. The WaterMaps viewer is an integral part of the River Basin Management Plan and provides access to information at individual waterbody level and at Water Management Unit level for all the River Basin Districts in Ireland.

The following report provides summary plan information about the selected waterbody (indicated by the pin in the map above) relating to its status, risks, objectives, and measures proposed to retain status where this is adequate, or improve it where necessary. Waterbodies can relate to surface waters (these include rivers, lakes, estuaries (transitional waters), and coastal waters), or to groundwaters. Other relevant information not included in this report can be viewed using the WaterMaps viewer, including areas listed in the Register of Protected Areas.

You will find brief notes at the bottom of some of the individual report sheets that will help you in interpreting the information presented. More detailed information can be obtained in relation to all aspects of the RBMPs at www.wfdireland.ie.

water matters	
Summary Information:	
Water Management Unit:	N/A
WaterBody Category:	Groundwater Waterbody
WaterBody Name:	Barrow Valley_S
WaterBody Code:	IE_SE_G_020
Overall Status:	Good
Overall Objective:	Protect
Overall Risk:	1a At Risk
Heavily Modified:	No
	Report data based upon final RBMP, 2009-2015.

The information provided above is a summary of the principal findings related to the selected waterbody. Further details and explanation of individual elements of the report are outlined in the following reges.

Chemical and Quantitative Status Report					
Water Management Unit:	N/A				
WaterBody Category:	Groundwater Waterbody	south			
WaterBody Name:	Barrow Valley_S	Constient wer been detect			
WaterBody Code:	IE_SE_G_020				
Overall Status Result:	Good				
Heavily Modified:	No				

- Sala

	Status Element Description	Result
	Status information	
INS	Status associated with saline intrusion into groundwater	GS-HC
DWS	Status associated with exceedances of water quality above specific standards	GS-HC
DS	Chemical status of groundwater due to pressure from diffuse sources of pollution	GS-HC
CLS	Chemical status of groundwater due to pressure from contaminated soil or land.	GS-HC
MS	Chemical status of groundwater due to pressure from mine sites (active or closed).	GS-HC
UAS	Chemical status of groundwater due to pressures from urban areas	GS-HC
GWS	General groundwater quality status	GS-HC
RPS	Status associated with MRP loading to rivers not the status	GS-LC
TNS	Status associated with nitrate loading to transitional and coastal waters	GS-LC
SWS	Overall status associated with nutrient loadings to rivers and transitional and coastal waters	GS-LC
sqs	Status associated with dependant surface water quantitative status	GS-HC
GDS	Groundwater dependant terrestrial ecosystems status	GS-HC
QSO	Quantitative status overall	GS-HC
CS0	Chemical status overali	GS-LC
OS	Overall status	Good

GS -HC : Good status High Confidence GS- LC : Good status Low Confidence

n/a - not assessed

Status

By 'Status' we mean the condition of the water in the waterbody. It is defined by its chemical status and quantitative status, whichever is worse. Groundwaters are ranked in one of 2 status classes: Good or Poor.

You can read more about status and how it is measured in our RBMP Document Library at www.wfdireland.ie (Directory 15 Status).

/at	er matters		and the second
Risk	Report		
Wat	er Management Unit:	N/A	
Wat	erBody Category:	Groundwater Waterbody	south
Wat	erBody Name:	Barrow Valley_S	Casteri Iverbase activ
Wat	erBody Code:	IE_SE_G_020	
Over	rall Risk Result:	1a At Risk	
Hear	vily Modified:	No	
-	Risk Test Description		Risk
	Groundwater Dependent	Terrestrial Ecosystems	
ΓE	GWDTE Risk		N/A
	Groundwater Quality		
DIF	Diffuse Elements (General)	Risk	N/A
w	Drinking Waters Risk	A US	N/A
NT	Intrusions Risk	the states	N/A
VB	Water Balance Risk	Risk meral) ity Risk int Risk) conset of copyright owner required for any other inst for inspection purposes only any other inst transformer required for any other inst conset of copyright owner required for any other inst copyright owner required for any other in	N/A
	Groundwater Quality (Ge	neral)	
ŞQ	General Groundwater Qual	ity Risk tion Ptrev	N/A
	Groundwater Quality (Po	int Risk) the state of the stat	
CL	Contaminated Land Risk	FOIDINE	N/A
F	Landfill Risk	A OF COL	N/A
MI	Mine Risk	Oliselt	N/A
QΥ	Quarry Risk		N/A
JR	Urban Risk		N/A
JW	UWWT Risk		N/A
	GW Diffuse Risk Source	5	
NB3	Mobile Nutrients (NO3)		N/A
VB4	Mobile Chemicals		N/A
NB5	Clustered OSWTSs and lea	king urban sewerage systems	N/A
	GW Hydrology		
WB1	Water balance - Abstractio	ท	N/A
WB2	Abstraction - Intrusion		N/A

		Long Street	
	GW Point Risk Sources		
WB10	Risk from Point sources of pollution - Contaminated Land		N/A
WB11	Risk from Point sources of pollution - Trade Effluent Discharges		N/A
WB12	Risk from Point sources of pollution - Urban Wastewater Discharges		N/A
WB6	Risk from Point sources of pollution - Mines		N/A
WB7	Risk from Point sources of pollution - Quarries		N/A
WB8	Risk from Point sources of pollution - Landfills		N/A
WB9	Risk from Point sources of pollution - Oil Industry Infrastructure		N/A
	Overall Risk		
RA	Groundwater Overall - Worst Case		N/A
	Risk information		
CLR	Contaminated land risk	2b	Not At Risk
DR	Risk of groundwater due to pressure from diffuse sources of pollution	Za	Probably Not At Risk
DWR	Risk associated with exceedances of water quality above specific standards Groundwater dependant terrestrial ecosystems risk General groundwater quality risk Risk associated with saline intrusion into groundwater Risk due to landfills sites/old closed dump sites Mines risk Diffuse nitrates from agriculture risk Risk due to quarries Revised risk assessment Risk associated with MRP loading to rivers	26	Not At Risk
GDR	Groundwater dependant terrestrial ecosystems risk	2b	Not At Risk
GWR	General groundwater quality risk	2a	Probably Not At Risk
INR	Risk associated with saline intrusion into groundwater	2b	Not At Risk
LR	Risk due to landfills sites/old closed dump sites		Not At Risk
MR	Mines risk	2b	Not At Risk
NULL	Diffuse nitrates from agriculture risk		N/A
QR	Risk due to quarries	2b	Not At Risk
RA	Revised risk assessment	1a	At Risk
RPR	Risk associated with MRP loading to rivers	1a	At Risk
SQR	Risk associated with dependant surface water quantitative status	2b	Not At Risk
SWR	Overall risk associated with nutrient loadings to rivers and transitional and coastal waters	1a	At Risk
TNR	Risk associated with nitrate loading to transitional and coastal waters	1a	At Risk
UAR	Risk of groundwater due to pressures from urban areas	2b	Not At Risk
UWR	Risk due to direct discharges of urban wastewater	26	Not At Risk

Risk

By 'risk' we mean the risk that a waterbody will not achieve good ecological or good chemical status/potential at least by 2015. To examine risk the various pressures acting on the waterbody were identified along with any evidence of impact on water status. Depending on the extent of the pressure and its potential for impact, and the amount of information available, the risk to the water body was placed in one of four categories: 1a at risk; 1b probably at risk; 2a probably not at risk; 2b not at risk. Note that '2008' after the risk category means that the risk assessment was revised in 2008. All other risks were determined as part of an earlier risk assessment in 2005.

You can read more about risk assessment in our 'WFD Risk Assessment Update' document in the RBMP document library, and other documents at www.wfdireland.ie (Directory 31 Risk Assessments).

wat	er matters		200
Obj€	ectives Report		
Wate	er Management Unit:	N/A	da.
Wate	erBody Category:	Groundwater Waterbody	south costern
Wate	erBody Name:	Barrow Valley_S	100 m
Wate	erBody Code:	IE_SE_G_020	
Over	all Objective:	Protect	
Heav	vily Modified:	No	
	Objectives Descript	on	Result
	Extended timescale i	nformation	
E1	Extended deadlines due l	-	No Status
E2	Extended deadlines due t	to agricultural N	No Status
E3	Extended deadlines due	to mines	No Status
E4	Extended deadlines due	to urban areas	No Status
E5	Extended deadlines due	to contaminated lands	No Status
EO	Extended deadlines - ove	erall nupoquite	No Status
{	Objectives information	on _{ction tere}	
OB1	Prevent deterioration obj	iective insolution	Protect
OB2	Restore at least good sta	itus objective	No Status
OB3	Reduce chemical pollution	n objective	No Status
OB4	Protected areas objective	a Collec	No Status
ОВО	Overall objectives - obje	to agricultural N to mines to urban areas to contaminated lands erall pictive tus objective conserve tus objective tus objective conserve tus objective tus objective	Protect

Extended timescales

Extended timescales have been set for certain waters due to technical, economic, environmental or recovery constraints. Extended timescales are usually of one planning cycle (6 years, to 2021) but in some cases are two planning cycles (to 2027).

Objectives

In general, we are required to ensure that our waters achieve at least good status/potential by 2015, and that their status does not deteriorate. Having identified the status of waters (this is given earlier in this report), the next stage is to set objectives for waters. Objectives consider waters that require protection from deterioration as well as waters that require restoration and the timescales needed for recovery. Four default objectives have been set initially:-

Prevent Deterioration Restore Good Status Reduce Chemical Pollution Achieve Protected Areas Objectives

These objectives have been refined based on the measures available to achieve them, the latter's likely effectiveness, and consideration of cost-effective combinations of measures. Where it is considered necessary extended deadlines have been set for achieving objectives in 2021 or 2027.

wat	er matters	- Alter	
Mea	sures Report		
Wate	er Management Unit:	N/A	
Wate	Body Category:	Groundwater Waterbody	south
1	erBody Name:	Barrow Valley_S	THE BASE SECTOR
WaterBody Code:		IE_SE_G_020	
Heavily Modified:		No	
neav	my moumeu.		
	Measures Descriptio		Applicable
BC		asures which apply to this waterbody	24
BW	Directive - Bathing Waters	s Directive	No
BIR	Directive - Birds Directive		No
HAB	Directive - Habitats Direct	ive	Yes
DW	Directive - Drinking Water	rs Directive	Yes
MAE	-	s and Emergencies Directive	Yes
EIA	Directive - Environmental	Impact Assessment Directive	Yes
SS	Directive - Sewage Sludge	e Directive	Yes
UWT	Directive - Urban Waste V	Vater Treatment Directive	Yes
PPP	Directive - Plant Protection	n Products Directive	Yes
NIT	Directive - Nitrates Directi	Impact Assessment Directive a Directive Vater Treatment Directive n Products Directive ution Prevention Control Directive - Cost recovent for Water use - Promotion of drinking water sources - Control of abstraction and impoundment	Yes
IPC	Directive - Integrated Pol	ution Prevention Control Directive	Yes
CR	Other Stipulated Measure	- Cost recovery for water use	Yes
SUS	Other Stipulated Measure	- Promotion of efficient and sustainable water use	Yes
DWS	Other Stipulated Measure	- Protection of drinking water sources	Yes
ABS	Other Stipulated Measure	- Control of abstraction and impoundment	Yes
POI		- Control of point source discharges	Yes
DIF	Other Stipulated Measure	- Control of diffuse source discharges	Yes
GW	Other Stipulated Measure	- Authorisation of discharges to groundwaters	Yes
PS	Other Stipulated Measure	- Control of priority substances	Yes
MOD	Other Stipulated Measure	- Controls on physical modifications to surface waters	Yes
OA	Other Stipulated Measure	- Controls on other activities impacting on water status	Yes
AP		- Prevention or reduction of the impact of accidental	Yes
OTS	On-site waste water treat	ment systems	Yes
FPM	Freshwater Pearl Mussel s	sub-basin plan	Yes
SHE	Shellfish Pollution Reducti	on Plan	No
IPR	IPPC licences requiring re	view	No
WPR	Water Pollution Act licence	es requiring review	No
FOR	Forestry guidelines and re	gulations	Yes

Date Reported to Europe:July 2010

Date Report Created 25/05/2012



Measures

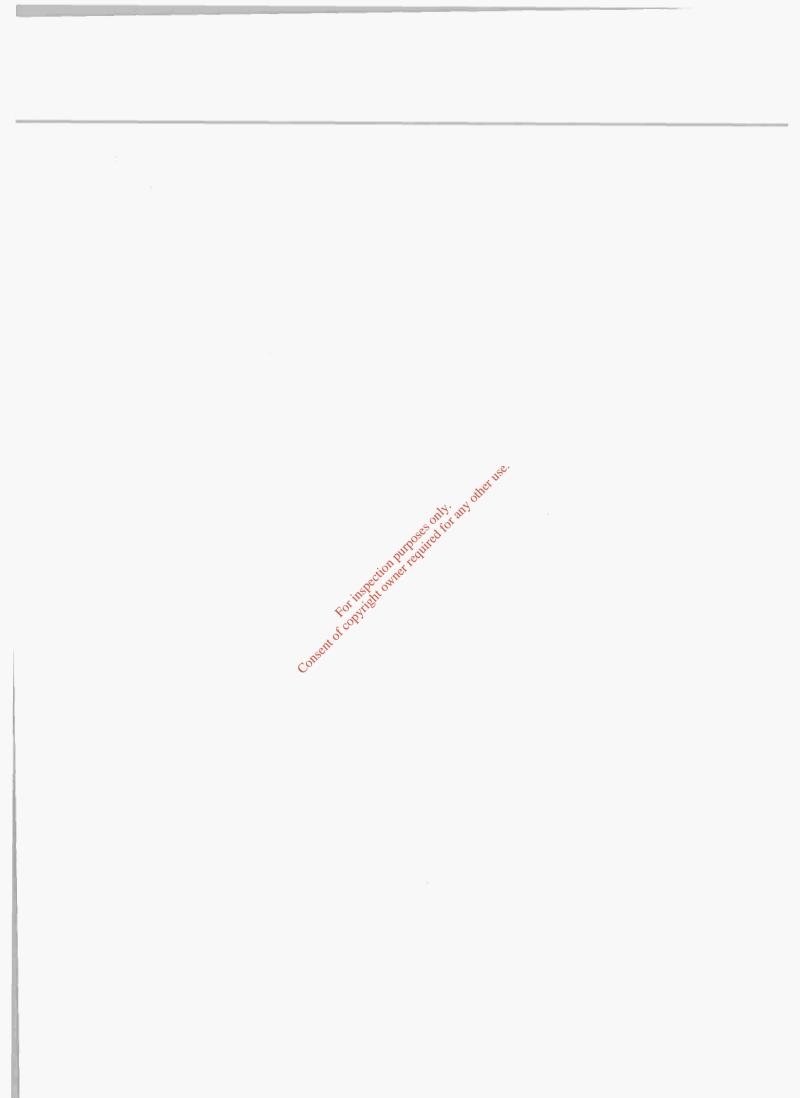
Measures are necessary to ensure that we meet the objectives set out in the previous page of this report. Many measures are already provided for in national legislation and must be implemented. Other measures have been recently introduced or are under preparation. A range of additional potential measures are also being considered but require further development. Any agreed additional measures can be introduced through the update of Water Management Unit Action Plans during the implementation process.

You can read more about Basic Measures in 'River Basin Planning Guidance' and In other documents in our RBMP Document Library at www.wfdireland.ie.

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Page 1 of 1

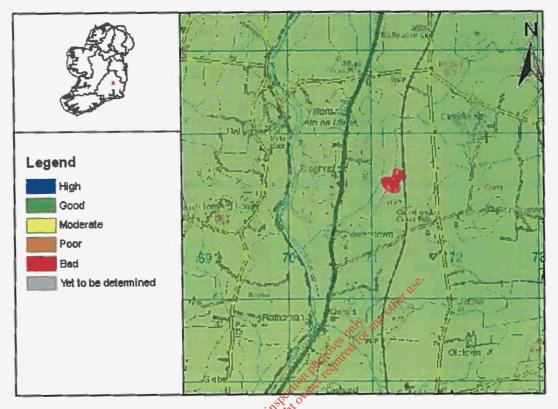






Groundwater

Full Report for Waterbody Barrow Valley_A



River Basin Management Plans (RBMPs) have been published for all River Basin Districts in Ireland in accordance with the requirements of the Water Framework Directive. The Water Maps viewer is an integral part of the River Basin Management Plan and provides access to information at individual waterbody level and at Water Management Unit level for all the River Basin Districts in Ireland.

The following report provides summary plan information about the selected waterbody (indicated by the pin in the map above) relating to its status, risks, objectives, and measures proposed to retain status where this is adequate, or improve it where necessary. Waterbodies can relate to surface waters (these include rivers, lakes, estuaries [transitional waters], and coastal waters), or to groundwaters. Other relevant information not included in this report can be viewed using the WaterMaps viewer, including areas listed in the Register of Protected Areas.

You will find brief notes at the bottom of some of the individual report sheets that will help you in interpreting the information presented. More detailed information can be obtained in relation to all aspects of the RBMPs at www.wfdireland.ie.

water matters	
Summary Information:	
Water Management Unit:	N/A
WaterBody Category:	Groundwater Waterbody
WaterBody Name:	Barrow Valley_A
WaterBody Code:	IE_SE_G_018
Overali Status:	Good
Overall Objective:	Protect
Overall Risk:	1a At Risk
Heavily Modified:	No
	Report data based upon final RBMP, 2009-2015.

The information provided above is a summary of the principal findings related to the selected waterbody. Further details and explanation of individual elements of the report are outlined in the following pages.

Consent of constraints to the selection purposes only and the selection purposes only and the selection purposes of the and the

Chemical and Quantitativ				
Water Management Unit:	Vater Management Unit: N/A			
WaterBody Category:	Groundwater Waterbody	south		
WaterBody Name:	Barrow Valley_A	there has a construct		
WaterBody Code:	IE_SE_G_018			
Overall Status Result:	Good			
Heavily Modified:	No			

- Alter

		Status Element Description	Result	
1		Status information		
1	INS	Status associated with saline intrusion into groundwater	GS-HC	
	DWS	Status associated with exceedances of water quality above specific standards	GS-HC	
	DS	Chemical status of groundwater due to pressure from diffuse sources of pollution	GS-HC	
	CLS	Chemical status of groundwater due to pressure from contaminated soil or land.	GS-HC	
	MS	Chemical status of groundwater due to pressure from mine sites (active or closed).	GS-HC	
	UAS	Chemical status of groundwater due to pressures from urban areas	GS-HC	
	GWS	General groundwater quality status	GS-HC	
	RPS	General groundwater quality status	GS-LC	
	TNS	Status associated with nitrate loading to transitional and coastal waters	GS-LC	
1	SWS	Overall status associated with nutrient loadings to rivers and transitional and coastal waters	GS-LC	
	SQS	Status associated with dependant surface water quantitative status	GS-HC	
	GDS	Groundwater dependant terrestrial ecosystems status	GS-HC	
	QSO	Quantitative status overall	GS-HC	
	CS0	Chemical status overall	GS-LC	
	os	Overall status	Good	

GS -HC : Good status High Confidence GS - LC : Good status Low Confidence

n/a - not assessed

Status

By 'Status' we mean the condition of the water in the waterbody. It is defined by its chemical status and quantitative status, whichever is worse. Groundwaters are ranked in one of 2 status classes: Good or Poor.

You can read more about status and how it is measured in our RBMP Document Library at www.wfdireland.ie (Directory 15 Status).

at	er matters	- 200	ites -
Risk	Report		
Nat	er Management Unit:	N/A	
Nat	erBody Category:	Groundwater Waterbody	south
Nat	erBody Name:	Barrow Valley_A	The Dase differ
	erBody Code:	IE_SE_G_018	
	-		
	rall Risk Result:		
Hea	vily Modified:	No	
	Risk Test Description		Risk
	Groundwater Dependent	Terrestrial Ecosystems	
Έ	GWDTE Risk		N/A
	Groundwater Quality		
DIF	Diffuse Elements (General)	Risk	N/A
W	Drinking Waters Risk	metus	N/A
NT	Intrusions Risk	all'all or	N/A
VB	Water Balance Risk	Set of the	N/A
	Groundwater Quality (Ge	neral) puppequire	
Q	General Groundwater Qua	ity Risk citother	N/A
	Groundwater Quality (Po	int Risk) 1980 of	
1	Contaminated Land Risk		N/A
.F	Landfill Risk	ento	N/A
۹I	Mine Risk	Risk neral) Ity Risk int Risk) Consert	N/A
QY 			
JR	Urban Risk		N/A N/A
JW	UWWT Risk		N/A
4150	GW Diffuse Risk Source	5	N/A
WB3	Mobile Nutrients (NO3) Mobile Chemicals		N/A
NB4 NB5		iking urban sewerage systems	N/A
1402	GW Hydrology	ining urban severage systems	
WB1	-	In	N/A
WB2			N/A

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water matters der Plan

		Con Line	and the second se		
1		GW Point Risk Sources			
	WB10	Risk from Point sources of pollution	- Contaminated Land		N/A
	WB11	Risk from Point sources of pollution	- Trade Effluent Discharges		N/A
	WB12	Risk from Point sources of pollution	- Urban Wastewater Discharges		N/A
	WB6	Risk from Point sources of pollution	- Mines		N/A
	WB7	Risk from Point sources of pollution	- Quarries		N/A
	W88	Risk from Point sources of pollution	- Landfills		N/A
	WB9	Risk from Point sources of pollution	- Oil Industry Infrastructure		N/A
		Overall Risk			
	RA	Groundwater Overall - Worst Case			N/A
-		Risk information			
	CLR	Contaminated land risk		2b	Not At Risk
	DR	Risk of groundwater due to pressure	e from diffuse sources of pollution	2a	Probably Not At Risk
	DWR	Risk associated with exceedances o standards	f water quality above specific ecosystems risk into groundwater on ¹⁹ and other use. d dump sites for inspection purposes of for any other use.	2b)	Not At Risk
-	GDR	Groundwater dependant terrestrial	ecosystems risk	2b	Not At Risk
	GWR	General groundwater quality risk	other	1b	Probably At Risk
	INR	Risk associated with saline intrusion	i into groundwater of the and	25	Not At Risk
	LR	Risk due to landfills sites/old closed	i dump sites	1b	Probably At Risk
	MR	Mines risk	ion purch	26	Not At Risk
	NULL	Diffuse nitrates from agriculture risk	(spectrowne		N/A
	QR	Risk due to quarries	Foringht	2b	Not At Risk
	RA	Revised risk assessment	ofcor	1a	At Risk
	RPR	Risk associated with MRP loading to	rivers	la	At Risk
	SQR	Risk associated with dependant sur		⁷ 2b	Not At Risk
	SWR	Overall risk associated with nutrient and coastal waters	loadings to rivers and transitional	1a	At Risk
	TNR	Risk associated with nitrate loading	to transitional and coastal waters	la.	At Risk
	UAR	Risk of groundwater due to pressure	es from urban areas	2b	Not At Risk
	UWR	Risk due to direct discharges of urb	an wastewater	26	Not At Risk

- Concern

Risk

By 'risk' we mean the risk that a waterbody will not achieve good ecological or good chemical status/potential at least by 2015. To examine risk the various pressures acting on the waterbody were identified along with any evidence of impact on water status. Depending on the extent of the pressure and its potential for impact, and the amount of information available, the risk to the water body was placed in one of four categories: 1a at risk; 1b probably at risk; 2a probably not at risk; 2b not at risk. Note that '2008' after the risk category means that the risk assessment was revised in 2008. All other risks were determined as part of an earlier risk assessment in 2005.

You can read more about risk assessment in our 'WFD Risk Assessment Update' document in the RBMP document library, and other documents at www.wfdireland.ie (Directory 31 Risk Assessments).

wat	er matters		
Obje	ectives Report		
Wat	er Management Unit:	N/A	-
Wat	erBody Category:	Groundwater Waterbody	south eastern
Wat	erBody Name:	Barrow Valley_A	
Wat	erBody Code:	IE_SE_G_018	
Ove	rall Objective:	Protect	
Hear	vily Modified:	No	
	Objectives Descript	ion	Result
	Extended timescale i	nformation	
E1	Extended deadlines due	to agricultural P	No Status
E2	Extended deadlines due	to agricultural N	No Status
E3	Extended deadlines due	to mines	No Status
E4	Extended deadlines due	to urban areas	No Status
E5	Extended deadlines due	to contaminated lands	No Status
EO	Extended deadlines - ove	erall automited	No Status
	Objectives information	on tion terrer	
OB1	Prevent deterioration objective		Protect
OB2	Restore at least good status objectives No Status		No Status
OB3	Reduce chemical pollution objective No Status		No Status
OB4	Extended deadlines due to agricultural N No Status Extended deadlines due to mines No Status Extended deadlines due to urban areas No Status Extended deadlines due to contaminated lands No Status Extended deadlines - overall No Status Objectives information No Status Prevent deterioration objective Interface Restore at least good status objective No Status No Status No Status Protected areas objective No Status Overall objectives - objective Protect		No Status
OBO	Overall objectives - obje	ctive	Protect

Extended timescales

Extended timescales have been set for certain waters due to technical, economic, environmental or recovery constraints. Extended timescales are usually of one planning cycle (6 years, to 2021) but in some cases are two planning cycles (to 2027).

Objectives

In general, we are required to ensure that our waters achieve at least good status/potential by 2015, and that their status does not deteriorate. Having identified the status of waters (this is given earlier in this report), the next stage is to set objectives for waters. Objectives consider waters that require protection from deterioration as well as waters that require restoration and the timescales needed for recovery. Four default objectives have been set initially:-

Prevent Deterioration Restore Good Status Reduce Chemical Pollution Achieve Protected Areas Objectives

These objectives have been refined based on the measures available to achieve them, the latter's likely effectiveness, and consideration of cost-effective combinations of measures. Where it is considered necessary extended deadlines have been set for achieving objectives in 2021 or 2027.



Mea	sures Report			
Water Management Unit: WaterBody Category: WaterBody Name:		N/A		
		Groundwater Waterbody	south costern	
		Barrow Valley_A	wer Laser digitic)	
	erBody Code:	IE_SE_G_018		
	vily Modified:	No		
The diversion				
	Measures Descriptio		Applicable	
BC		asures which apply to this waterbody	23	
BW	Directive - Bathing Water		No	
BIR	Directive - Birds Directive		No	
HAB	Directive - Habitats Direct		Yes	
DW	Directive - Drinking Water		Yes	
MAE	•	s and Emergencies Directive	Yes	
EIA	Directive - Environmental	Impact Assessment Directive	Yes	
SS	Directive - Sewage Sludge	e Directive	Yes	
UWT	Directive - Urban Waste V	Vater Treatment Directive	Yes	
PPP	Directive - Plant Protectio	n Products Directive	Yes	
NIT	Directive - Nitrates Direct	ive pure differentiate	Yes	
IPC	Directive - Integrated Pol	Impact Assessment Directive e Directive Water Treatment Directive n Products Directive lution Prevention Control Directive - Cost recovery for water use - Promotion of efficient and sustainable water use - Protection of drinking water sources - Coptrol of abstraction and impoundment	Yes	
CR	Other Stipulated Measure	- Cost recovery for water use	Yes	
SUS	Other Stipulated Measure	- Promotion of efficient and sustainable water use	Yes	
DWS	Other Stipulated Measure	- Protection of drinking water sources	Yes	
ABS	Other Stipulated Measure	- Control of abstraction and impoundment	Yes	
POI	Other Stipulated Measure	- Control of point source discharges	Yes	
DIF	Other Stipulated Measure	- Control of diffuse source discharges	Yes	
GW	Other Stipulated Measure	- Authorisation of discharges to groundwaters	Yes	
PS	Other Stipulated Measure	- Control of priority substances	Yes	
MOD	Other Stipulated Measure	- Controls on physical modifications to surface waters	Yes	
OA	Other Stipulated Measure	- Controls on other activities impacting on water status	Yes	
AP	Other Stipulated Measure pollution incidents	- Prevention or reduction of the impact of accidental	Yes	
OTS	On-site waste water treat	ment systems	Yes	
FPM	Freshwater Pearl Mussel	sub-basin plan	No	
SHE	Shellfish Pollution Reduct	ion Plan	No	
IPR	IPPC licences requiring re	view	No	
WPR	Water Pollution Act licence	es requiring review	No	
FOR	Forestry guidelines and re	egulations	Yes	

Date Reported to Europe:July 2010

Date Report Created 25/05/2012

water matters				
HQW	Protect high quality waters	· · · · · · · · · · · · · · · · · · ·	Yes	

Measures

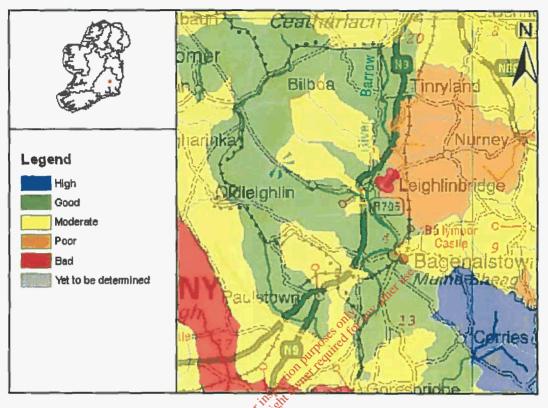
Measures are necessary to ensure that we meet the objectives set out in the previous page of this report. Many measures are already provided for in national legislation and must be implemented. Other measures have been recently introduced or are under preparation. A range of additional potential measures are also being considered but require further development. Any agreed additional measures can be introduced through the update of Water Management Unit Action Plans during the implementation process.

You can read more about Basic Measures in 'River Basin Planning Guidance' and in other documents in our RBMP Document Library at www.wfdireland.ie.





Full Report for Waterbody Barrow, Trib of Barrow



River Basin Management Plans (RBMPs) have been published for all River Basin Districts in Ireland in accordance with the requirements of the Water Framework Directive. The WaterMaps viewer is an integral part of the River Basin Management Plan and provides access to information at individual waterbody level and at Water Management Unit level for all the River Basin Districts in Ireland.

The following report provides summary placinformation about the selected waterbody (indicated by the pin in the map above) relating to its status, risks, objectives, and measures proposed to retain status where this is adequate, or improve it where necessary. Waterbodies can relate to surface waters (these include rivers, lakes, estuaries [transitional waters], and coastal waters), or to groundwaters. Other relevant information not included in this report can be viewed using the WaterMaps viewer, including areas listed in the Register of Protected Areas.

You will find brief notes at the bottom of some of the individual report sheets that will help you in interpreting the information presented. More detailed information can be obtained in relation to all aspects of the RBMPs at www.wfdireland.ie.

water matters	- Calledon	
Summary Information:		
Water Management Unit:	IE_SE_BarrowMain	
WaterBody Category:	River Waterbody	
WaterBody Name:	Barrow, Trib of Barrow	
WaterBody Code:	IE_SE_14_196_5	
Overall Status:	Good	
Overall Objective:	Protect	
Overall Risk:	1a At Risk	
Heavily Modified:	No	
	Report data based upon final RBMP, 2009-2015.	

The information provided above is a summary of the principal findings related to the selected waterbody. Further details and explanation of individual elements of the report are outlined in the following pages.

Date Reported to Europe:July 2010 Date Report Created 20/04/2012 ۶.

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Status Report		
Water Management Unit:	IE_SE_BarrowMain	
WaterBody Category:	River Waterbody	south
WaterBody Name:	Barrow, Trib of Barrow	costern rembasin definit
WaterBody Code:	IE_SE_14_196_5	
Overall Status Result:	Good	
Heavily Modified:	No	

and the second

	Status Element Description	Result
	Status information	
Q	Macroinvertebrate status	Good
PC	General physico-chemical status	Good
FPQ	Freshwater Pearl Mussel / Macroinvertebrate status	N/A
DIA	Diatoms status	N/A
HYM	Hydromorphology status	N/A
FIS	Fish status	N/A
SP	Specific Pollutants status (SP)	N/A
ES	Overall ecological status	Good
CS	Overall chemical status (PAS)	n/a
EXT	Extrapolated status	N/A
MON	Monitored water body	YES
DON	Freshwater Pearl Mussel / Macroinvertebrate status Diatoms status Hydromorphology status Fish status Specific Pollutants status (SP) Overall ecological status Overall chemical status (PAS) Extrapolated status Monitored water body Donor water bodies Consent Consent	N/A

n/a - not assessed

Status

By 'Status' we mean the condition of the water in the waterbody. It is defined by its chemical status and its ecological status, whichever is worse. Waters are ranked in one of 5 status classes: High, Good, Moderate, Poor, Bad. However, not all waterbodies have been monitored, and in such cases the status of a similar nearby waterbody has been used (extrapolated) to assign status. If this has been done the first line of the status report shows the code of the waterbody used to extrapolate.

You can read more about status and how it is measured in our RBMP Document Library at www.wfdireland.ie (Directory 15 Status).

vat	er matters		9.25	
Risk	Report			
Wate	r Management Unit:	IE_SE_BarrowMain		
Wate	rBody Category:	River Waterbody		annh
	rBody Name:	Barrow, Trib of Barrow		enstern werbasitidebigt
	rBody Code:	IE_SE_14_196_5		
	-			
	all Risk Result:	1a At Risk		
Heav	ily Modified:	No		
	Risk Test Description			Risk
	Diffuse Risk Sources			
RD1	EPA diffuse model (2008)		1a	At Risk
RD2a	Road Wash - Soluble Copp	Êr	2b	Not At Risk
RD2b	Road Wash - Total Zinc		2b	Not At Risk
RD2c	Road Wash - Total Hydroca	arbons	2b	Not At Risk
RD3	Railways	MIN, any	2b	Not At Risk
RD4a	Forestry - Acidification (20	08) poses of for	2b	Not At Risk
RD4b	Forestry - Suspended Solid	s (2008) purpertecture	.2b	Not At Risk
RD4c	 Road Wash - Total Zinc Road Wash - Total Hydrocarbons Railways Forestry - Acidification (2008) Forestry - Suspended Solids (2008) Forestry - Eutrophication (2008) Overall Unsewered (2008) Unsewered Areas - Pathogens (2008) Unsewered Phosphorus (2008) Sheep Dip Forestry - Dangerous Substances 			Probably Not At Risk
RD5	5 Overall Unsewered (2008)			Not At Risk
RD5a	Unsewered Areas - Pathog	ens (2008) ని	2a	Probably Not At Risk
RD5b	Unsewered Phosphorus (2)	008) sent	26	Not At Risk
RD6a	Arable	Cor	Za	Probably Not At Risk
RD6b	Sheep Dip		2b .	Not At Risk
			and the second se	
	Diffuse Overall -Worst Cas	e (2008)	<u>1</u> a	At Risk
	Hydrology			
RHY1	Water balance - Abstractio			N/A
	Morphological Risk Sour	ces	1011	
	Channelisation (2008)		2b	Not At Risk
RM2	Embankments (2008)		2b	Not At Risk
	Impoundments		2b	Not At Risk
	Water Regulation		25	Not At Risk
	Intensive Landuse	t Case (2008)	21.	N/A Not At Rick
RMO	Morphology Overall - Wors Overall Risk	a Case (2000)	.2b	Not At Risk
	Overdil Risk		_	

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wat	ter matters		
-	Point Risk Sources		
RP1	WWTPs (2008)	1 23	At Risk
RP2	CSOs	1b	Probably At Risk
RP3	IPPCs (2008)	26	Not At Risk
RP4	Section 4s (2008)	1a	At Risk
RP5	WTPs/Mines/Quarries/Landfills		N/A
RPO	Overall Risk from Point Sources - Worst Case (2008)	1a	At Risk
	Q Value		
Q	EPA Q rating and Margaritifera Assessment		N/A
	Q/RDI or Point/Diffuse		
QPD	Q class/EPA Diffuse Model or worst case of Point and Diffuse (2008) 1a	At Risk
	Rivers Direct Impacts		
RDI1	Rivers Direct Impacts - Dangerous Substances		N/A

Risk

By 'risk' we mean the risk that a waterbody will not achieve good ecological or good chemical status/potential at least by 2015. To examine risk the various pressures acting on the waterbody were identified along with any evidence of impact on water status. Depending on the extent of the pressure and its potential for impact and the amount of information available, the risk to the water body was placed in one of four categories: 1a at risk, 1b probably at risk; 2a probably not at risk; 2b not at risk. Note that '2008' after the risk category means that the risk assessment was revised in 2008. All other risks were determined as part of an earlier risk assessment in 2005.

You can read more about risk assessment in our 'WFD Risk Assessment' Update' document in the RBMP document library, and other documents at www.wfdireland.ie (Directory 31 Risk Assessments).

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Objectives	Report		
Water Mana	gement Unit:	IE_SE_BarrowMain	
WaterBody	Category:	River Waterbody	south
WaterBody	Name:	Barrow, Trib of Barrow	
WaterBody	Code:	IE_SE_14_196_5	
Overall Obje		Protect	
Heavily Mod		No	
			Decult
-	c tives Descript i ded timescale i		Result
		to time requirements to upgrade WWTP discharges	No Status
E2 Extend		to delayed recovery of chemical pollution and	No Status
E3 Extend		to delayed recovery following reduction in s කර්දාන්	No Status
	led timescales due al damage	to delayed recovery from physical modifications and	No Status
acidific	ation measures	to delayed recovery following implementing forestry	No Status
contar	ninated sites	to physical receivery timescales at mines and	No Status
E7 Extend	led timescales due	to delayed recovery of highly impacted sites	No Status
	led timescales due Itural nutrient losse	to delayed recovery following reduction in	No Status
E9 Extend	led timescales due	to delayed recovery from nitrogen losses to estuaries	No Status
	led timescales due Itural nutrient losse	to delayed recovery following reduction in as	No Status
	led timescales due al damage (overgr	to delayed recovery from physical modifications and azing)	No Status
physic	al damage (channe		No Status
		n Northern Ireland Environment Agency	No Status
EOV Overa	Il extended timesca	ale - combination of all extended timescales fields	No Status
E14 Extend popula		to the presence of Freshwater Pearl Mussel	No Status
EX15 Exten	ded timescales due	to highly impacted sites	No Status

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	Objectives information	
OB1	Prevent deterioration objective	No Status
OB2	Restore at least good status objective	No Status
OB3	Reduce chemical pollution objective	No Status
OB4	Protected areas objective	Protect
OB5	Northern Ireland Environment Agency objective	No Status
OBO	Overall objectives	Protect

Extended timescales

Extended timescales have been set for certain waters due to technical, economic, environmental or recovery constraints. Extended timescales are usually of one planning cycle (6 years, to 2021) but in some cases are two planning cycles (to 2027).

Objectives

In general, we are required to ensure that our waters achieve at least good status/potential by 2015, and that their status does not deteriorate. Having identified the status of waters (this is given earlier in this report), the next stage is to set objectives for waters. Objectives consider waters that require protection from deterioration as well as waters that require restoration and the timescales needed for recovery. Four default objectives have been set initially:-

Prevent Deterioration Restore Good Status Reduce Chemical Pollution Achieve Protected Areas Objectives



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Meas	sures Report		
Wate	r Management Unit:	IE_SE_BarrowMain	
WaterBody Category:		River Waterbody	south
Wate	rBody Name:	Barrow, Trib of Barrow	iver trasmidtlinct
	rBody Code:	IE_SE_14_196_5	
	ily Modified:	No	
neav			
	Measures Description		Applicable
BC		asures which apply to this waterbody	24
BW	Directive - Bathing Waters	Directive	No
BIR	Directive - Birds Directive		No
HAB	Directive - Habitats Direct		Yes
DW	Directive - Drinking Water	s Directive	No
MAE	Directive - Major Accident	s and Emergencies Directive	Yes
EIA	Directive - Environmental	Impact Assessment Directive	Yes
55	Directive - Sewage Sludge	Directive of the termination of ter	Yes
JWT	Directive - Urban Waste V	Vater Treatment Directive	Yes
PPP	Directive - Plant Protection	n Products Directive 5, 10	Yes
NIT	Directive - Nitrates Directi	s Directive s and Emergencies Directive Impact Assessment Directive Directive vater Treatment Directive vater Treatment Directive n Products Directive ve section for the formation tion Prevention Control Directive - Cost recovery for water use - Promotion of efficient and sustainable water use - Protection of drinking water sources	Yes
IPC	Directive - Integrated Poll	ution Prevention Control Directive	Yes
CR	Other Stipulated Measure	- Cost recovery for water use	Yes
SUS	Other Stipulated Measure	- Promotion of efficient and sustainable water use	Yes
			Yes
ABS		- Control of abstraction and impoundment	Yes
POI		- Control of point source discharges	Yes
DIF	·	- Control of diffuse source discharges	Yes
PS	•	- Control of priority substances	Yes
MOD	•	- Controls on physical modifications to surface waters	Yes
OA AD		- Controls on other activities impacting on water status	Yes
AP	Other Stipulated Measure pollution incidents	- Prevention or reduction of the impact of accidental	Yes
TP1	WSIP - Agglomerations w	ith treatment plants requiring capital works	Yes
TP2	WSIP - Agglomerations w capital works	ith treatment plants requiring further investigation prior to	No
ТРЗ	WSIP - Agglomerations re Shellfish PRPs	quiring the implementation of actions identified in	No
TP4	WSIP - Agglomerations w performance	ith treatment plants requiring improved operational	Yes
TP5	WSIP - Agglomerations re	quiring investigation of CSOs	No

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TP6	WSIP - Agglomerations where exisitng treatment capacity is currently adequate but predicted loadings would result in overloading	No
OTS	On-site waste water treatment systems	Yes
FPM	Freshwater Pearl Mussel sub-basin plan	Yes
SHE	Shellfish Pollution Reduction Plan	No
IPR	IPPC licences requiring review	Yes
WPR	Water Pollution Act licences requiring review	No
FOR	Forestry guidelines and regulations	Yes
CH1	Chanelisation measures	No
CH2	Chanelisation investigations	No
OG	Overgrazing measures	No
HQW	Protect high quality waters	No

Measures

Measures are necessary to ensure that we meet the objectives set out in the previous page of this report. Many measures are already provided for in national legislation and must be implemented. Other measures have been recently introduced or are under preparation. A range of additional potential measures are also being considered but require further development. Any agreed additional measures can be introduced through the update of Water Management Unit Action Plans during the implementation process.

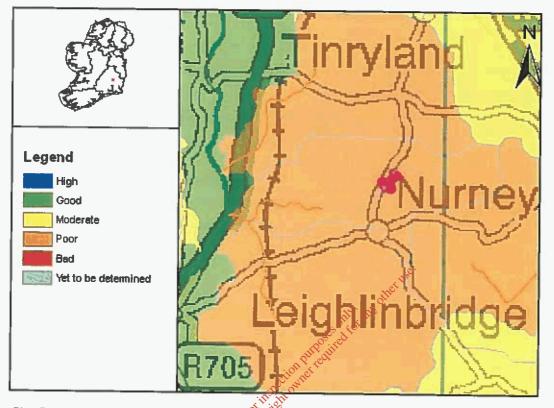
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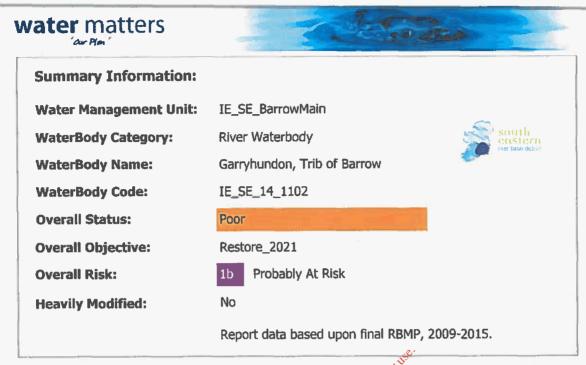
Full Report for Waterbody Garryhundon, Trib of Barrow



River Basin Management Plans (RBMPs) have been published for all River Basin Districts in Ireland in accordance with the requirements of the Water Framework Directive. The WaterMaps viewer is an integral part of the River Basin Management Plan and provides access to information at individual waterbody level and at Water Management Unit level for all the River Basin Districts in Ireland.

The following report provides summary place information about the selected waterbody (indicated by the pin in the map above) relating to its status, risks, objectives, and measures proposed to retain status where this is adequate, or improve it where necessary. Waterbodies can relate to surface waters (these include rivers, lakes, estuaries [transitional waters], and coastal waters), or to groundwaters. Other relevant information not included in this report can be viewed using the WaterMaps viewer, including areas listed in the Register of Protected Areas.

You will find brief notes at the bottom of some of the individual report sheets that will help you in interpreting the information presented. More detailed information can be obtained in relation to all aspects of the RBMPs at www.wfdireland.ie.



The information provided above is a summary of the principal findings related to the selected waterbody. Further details and explanation of individual elements of the report are outlined in the following bages.

Status Report			
Water Management Unit:	IE_SE_BarrowMain		
WaterBody Category:	River Waterbody	south	
WaterBody Name:	Garryhundon, Trib of Barrow	COSTC/D river basin distinct	
WaterBody Code:	IE_SE_14_1102		
Overall Status Result:	Poor		
Heavily Modified:	No		

	Status Element Description	Result
	Status information	
Q	Macroinvertebrate status	N/A
PC	General physico-chemical status	N/A
FPQ	Freshwater Pearl Mussel / Macroinvertebrate status	N/A
DIA	Diatoms status	N/A
НҮМ	Hydromorphology status	N/A
FIS	Fish status	N/A
SP	Specific Pollutants status (SP)	N/A
ES	Overall ecological status	Poor
cs	Overall chemical status (PAS)	n/a
EXT	Extrapolated status	YES
MON	Freshwater Pearl Mussel / Macroinvertebrate status Diatoms status Diatoms status Hydromorphology status Fish status Specific Pollutants status (SP) Overall ecological status Overall chemical status (PAS) Extrapolated status Monitored water body Donor water bodies	NO
DON	Donor water bodies	SE_14_951

n/a - not assessed

Status

By 'Status' we mean the condition of the water in the waterbody. It is defined by its chemical status and its ecological status, whichever is worse. Waters are ranked in one of 5 status classes: High, Good, Moderate, Poor, Bad. However, not all waterbodies have been monitored, and in such cases the status of a similar neerby waterbody has been used (extrapolated) to assign status. If this has been done the first line of the status report shows the code of the waterbody used to extrapolate.

You can read more about status and how it is measured in our RBMP Document Library at www.wfdireland.ie (Directory 15 Status).

	er matters		416	
Risk	Report			
Wate	r Management Unit:	IE_SE_BarrowMain		
Wate	rBody Category:	River Waterbody		S south
Wate	rBody Name:	Garryhundon, Trib of Barrow		tiver basin debict
Wate	rBody Code:	IE_SE_14_1102		
Overa	all Risk Result:	1b Probably At Risk		
	ily Modified:	No		
	Risk Test Description			Risk
	Diffuse Risk Sources			
RD1 I	EPA diffuse model (2008)		1a	At Risk
2D2a	Road Wash - Soluble Conne	r	2b	Not At Risk
RD2b I	Road Wash - Total Zinc	رى. دى.	2b	Not At Risk
RD2c I	Road Wash - Total Hydroca	rbons met 1	2b	Not At Risk
RD3 I	Railways	anty any or	2b	Not At Risk
RD4a I	Forestry - Acidification (200	8) 0 ⁵⁵ 0 ⁵⁰ 1		Not At Risk
RD4b i	Forestry - Suspended Solids	(2008) purequit	2b	Not At Risk
RD4c	Forestry - Eutrophication (2	rbons 8) 6 (2008) 008) ens (2008) 008) conservation 009) conservation 009) conservation 009 conservation 009 009 009 009 009 009 009 00	2a	Probably Not At Risk
RD5	Overall Unsewered (2008)	COT ITS IT	2b	Not At Risk
RD5a	Unsewered Areas - Pathoge	ens (2008) 8	2a	Probably Not At Risk
RD5b	Unsewered Phosphorus (20	08) sent 0	25	Not At Risk
RD6a	Arable	Cor	2a	Probably Not At Risk
RD6b	Sheep Dip		25	Not At Risk
			26	
	Diffuse Overall -Worst Case	2008)	1a	At Risk
	Hydrology		(Constant)	
	Water balance - Abstraction		20	Not At Risk
	Morphological Risk Sour	Ces	-	
	Channelisation (2008)		2b	Not At Risk
	Embankments (2008)		2b 2b	Not At Risk
	Impoundments		2D	Not At Risk
	Water Regulation		.2b	Not At Risk
	Intensive Landuse	Care (2008)	1	N/A Not At Pick
	Morphology Overall - Worst Overall Risk	(2006)	2b	Not At Risk

	ar Plan		and the second second		Contraction of the second
	Point Risk Sources				
RP1	WWTPs (2008)			1a	At Risk
RP2	CSOs			[2b]	Not At Risk
RP3	IPPCs (2008)			26	Not At Risk
RP4	Section 4s (2008)				Not At Risk
RP5	WTPs/Mines/Quarries/Landfills				N/A
RPO	Overall Risk from Point Sources - Worst Cas	ie (2008)		1a	At Risk
	Q Value				
Q	EPA Q rating and Margaritifera Assessment				N/A
	Q/RDI or Point/Diffuse				
QPD	Q class/EPA Diffuse Model or worst case of	Point and Diffu	se (2008)	1b	Probably At Risk
	Rivers Direct Impacts				
RDI1	Rivers Direct Impacts - Dangerous Substan	ces			N/A

Risk

By 'risk' we mean the risk that a waterbody will not achieve good ecological or good chemical status/potential at least by 2015. To examine risk the various pressures acting on the waterbody were identified along with any evidence of impact on water status. Depending on the extent of the pressure and its potential for impact, and the amount of information available, the risk to the water body was placed in one of four categories: 1a at risk; 1b probably at risk; 2a probably not at risk; 2b not at risk. Note that '2008' after the risk category means that the risk assessment was revised in 2008. All other risks were determined as part of an earlier risk assessment in 2008.

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Objectives Report

Water Management Unit:	IE_SE_BarrowMain	200
WaterBody Category:	River Waterbody	south costern werbasin datiet
WaterBody Name:	Garryhundon, Trib of Barrow	
WaterBody Code:	IE_SE_14_1102	
Overall Objective:	Restore_2021	
Heavily Modified:	No	

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	Objectives Description	Result
	Extended timescale information	
E1	Extended timescales due to time requirements to upgrade WWTP discharges	2021
E2	Extended timescales due to delayed recovery of chemical pollution and chemical status failures	No Status
E3	Extended timescales due to delayed recovery following reduction in agricultural nutrient losses	No Status
E4	Extended timescales due to delayed recovery from physical modifications and physical damage	No Status
E5	Extended timescales due to delayed recovery following implementing forestry acidification measures Extended timescales due to physical recovery timescales at mines and	No Status
E6	contaminated sites	No Status
E7	Extended timescales due to delayed recovery of highly impacted sites	No Status
E8	Extended timescales due to delayed recovery following reduction in agricultural nutrient losses	No Status
E9	Extended timescales due to delayed recovery from nitrogen losses to estuaries	2021
E10	Extended timescales due to delayed recovery following reduction in agricultural nutrient losses	No Status
E11	Extended timescales due to delayed recovery from physical modifications and physical damage (overgrazing)	No Status
E12	Extended timescales due to delayed recovery from physical modifications and physical damage (channelisation)	No Status
E13	Extended timescales from Northern Ireland Environment Agency	No Status
EOV	Overall extended timescale - combination of all extended timescales fields	2021
E14	Extended timescales due to the presence of Freshwater Pearl Mussel populations	No Status
EX15	Extended timescales due to highly impacted sites	No Status

	Objectives information	
OB1	Prevent deterioration objective	No Status
OB2	Restore at least good status objective	Restore_2021
OB3	Reduce chemical pollution objective	No Status
OB4	Protected areas objective	No Status
OB5	Northern Ireland Environment Agency objective	No Status
OBO	Overall objectives	Restore_2021

Extended timescales

Extended timescales have been set for certain waters due to technical, economic, environmental or recovery constraints. Extended limescales are usually of one planning cycle (6 years, to 2021) but in some cases are two planning cycles (to 2027).

Objectives

In general, we are required to ensure that our waters achieve at least good status/potential by 2015, and that their status does not deteriorate. Having identified the status of waters (this is given earlier in this report), the next stage is to set objectives for waters. Objectives consider waters that require protection from deterioration as well as waters that require restoration and the timescales needed for recovery. Four default objectives have been set initially:-

Prevent Deterioration Restore Good Status Reduce Chemical Pollution Achieve Protected Areas Objectives

ther use. These objectives have been refined based on the measures available to achieve them, the tatter's likely effectiveness, and consideration of cost-effective combinations of measures. Where it is considered necessary extended deadlines have been set for achieving objectives in 2021 or 2027.

wat	er matters	- Carter	2
Mea	sures Report		
Wate	er Management Unit:	IE_SE_BarrowMaln	
WaterBody Category:		River Waterbody	south
		Garryhundon, Trib of Barrow	ever basin district
	erBody Name:		
	erBody Code:	IE_SE_14_1102	
Heav	vily Modified:	No	
	Measures Descriptio	n	Applicabl
BC	Total number of basic me	asures which apply to this waterbody	22
BW	Directive - Bathing Water	s Directive	No
BIR	Directive - Birds Directive		No
HAB	Directive - Habitats Direct	lve	No
DW	Directive - Drinking Water	rs Directive	No
MAE	Directive - Major Accident	s and Emergencies Directive	Yes
EIA	Directive - Environmental	s and Emergencies Directive Impact Assessment Directive Directive Vater Treatment Directive n Products Directive ive Imperior Internation Control Directive	Yes
SS	Directive - Sewage Sludge	e Directive	Yes
UWT	Directive - Urban Waste V	Vater Treatment Directive 100	Yes
PPP	Directive - Plant Protectio	n Products Directive	Yes
NIT	Directive - Nitrates Direct	ive of the off	Yes
IPC	Directive - Integrated Pol	lution Prevention Control Directive	Yes
CR	Other Stipulated Measure	- Cost recovery for water use	Yes
SUS	Other Stipulated Measure	- Promotion of efficient and sustainable water use	Yes
DWS	Other Stipulated Measure	-Protection of drinking water sources	Yes
ABS	Other Stipulated Measure	- Control of abstraction and impoundment	Yes
POI	Other Stipulated Measure	- Control of point source discharges	Yes
DIF	Other Stipulated Measure	- Control of diffuse source discharges	Yes
PS	Other Stipulated Measure	- Control of priority substances	Yes
MOD	Other Stipulated Measure	- Controls on physical modifications to surface waters	Yes
OA	Other Stipulated Measure	- Controls on other activities impacting on water status	Yes
AP	pollution incidents	- Prevention or reduction of the impact of accidental	Yes
TP1	WSIP - Agglomerations w	ith treatment plants requiring capital works	Yes
TP2	capital works	ith treatment plants requiring further investigation prior to	
трз	Shellfish PRPs	equiring the implementation of actions identified in	No
TP4	performance	ith treatment plants requiring improved operational	No
TP5	WSIP - Agglomerations re	equiring investigation of CSOs	No

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TP6	WSIP - Agglomerations where exisitng treatment capacity is currently adequate but predicted loadings would result in overloading	Yes
OTS	On-site waste water treatment systems	Yes
FPM	Freshwater Pearl Mussel sub-basin plan	No
SHE	Shelifish Pollution Reduction Plan	No
IPR	IPPC licences requiring review	No
WPR	Water Pollution Act licences requiring review	No
FOR	Forestry guidelines and regulations	Yes
CH1	Chanelisation measures	No
CH2	Chanelisation investigations	No
OG	Overgrazing measures	No
HQW	Protect high quality waters	No

Measures

Measures Measures are necessary to ensure that we meet the objectives set out in the previous page of this report. Many measures are already provided for in national legislation and must be implemented. Other measures have been recently introduced or are under preparation. A range of additional potential measures are also being considered but require further development. Any agreed additional measures can be introduced through the undate of Water Management Unit Action Plans during the implementation process.

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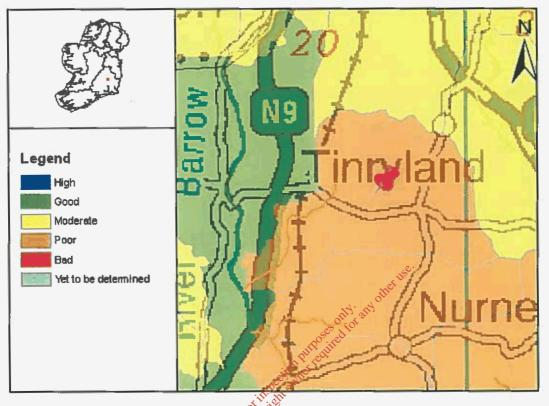
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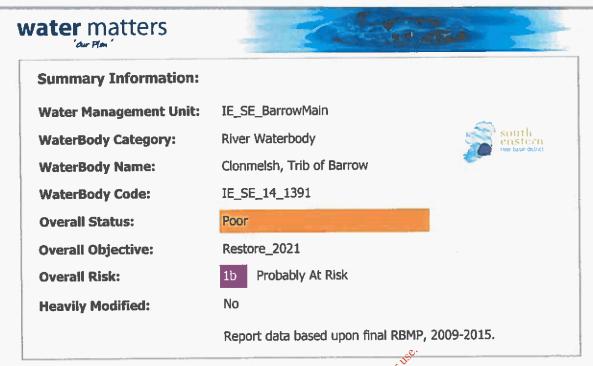
Full Report for Waterbody Clonmelsh, Trib of Barrow



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The following report provides summary plan information about the selected waterbody (indicated by the pin in the map above) relating to its status, risks, objectives, and measures proposed to retain status where this is adequate, or improve it where necessary. Waterbodies can relate to surface waters (these include rivers, lakes, estuaries [transitional waters], and coastal waters), or to groundwaters. Other relevant information not included in this report can be viewed using the WaterMaps viewer, including areas listed in the Register of Protected Areas.

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The information provided above is a summary of the principal findings related to the selected waterbody. Further details and explanation of individual elements of the report are outlined in the following pages.

water matters

Status Report		
Water Management Unit:	IE_SE_BarrowMain	
WaterBody Category:	River Waterbody	south .
WaterBody Name:	Clonmelsh, Trib of Barrow	ecost criar For basin district
WaterBody Code:	IE_SE_14_1391	
Overali Status Result:	Poor	
Heavily Modified:	No	

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	Status Element Description	Result
	Status information	
Q	Macroinvertebrate status	N/A
PC	General physico-chemical status	N/A
FPQ	Freshwater Pearl Mussel / Macroinvertebrate status	N/A
DIA	Diatoms status	N/A
нүм	Hydromorphology status	N/A
FIS	Fish status	N/A
SP	Specific Pollutants status (SP)	N/A
ES	Overall ecological status	Poor
cs	Overall chemical status (PAS)	n/a
EXT	Extrapolated status	YES
MON	Monitored water body	NO
DON	Freshwater Pearl Mussel / Macroinvertebrate status Diatoms status Hydromorphology status Fish status Specific Pollutants status (SP) Overall ecological status Overall chemical status (PAS) Extrapolated status Monitored water body Donor water bodies	SE_14_951

n/a - not assessed

Status

By 'Status' we mean the condition of the water in the waterbody. It is defined by its chemical status and its ecological status, whichever is worse. Waters are ranked in one of 5 status classes: High, Good, Moderate, Poor, Bad. However, not all waterbodies have been monitored, and in such cases the status of a similar nearby waterbody has been used (extrapolated) to assign status. If this has been done the first line of the status report shows the code of the waterbody used to extrapolate.

You can read more about status and how it is measured in our RBMP Document Library at www.widireland.ie (Directory 15 Status).

vate	er matters			
Risk	Report			
Wate	r Management Unit:	IE_SE_BarrowMain		2
Wate	rBody Category:	River Waterbody		south
Wate	rBody Name:	Clonmelsh, Trib of Barrow		CEISTOFIL river basin debret
Wate	rBody Code:	IE_SE_14_1391		
Overa	all Risk Result:	1b Probably At Risk		
	ily Modified:	No		
	Risk Test Description			Risk
	Diffuse Risk Sources			
RD1	EPA diffuse model (2008)		1.0	At Risk
0025	Road Wach - Soluble Conn	er	2b	Not At Risk
RD2b	Road Wash - Total Zinc	arbons 08) 1s (2008) 2008) ens (2008) consett of consett of	<u>ی</u> . 2b	Not At Risk
RD2c	Road Wash - Total Hydroc	arbons	2b	Not At Risk
RD3	Railways	814. 201 Or	2b	Not At Risk
RD4a	Forestry - Acidification (20	08) set of for	2b	Not At Risk
RD4b	Forestry - Suspended Solid	is (2008) purpentite	2b	Not At Risk
RD4c	Forestry - Eutrophication (2008) ectionet	2a	Probably Not At Risk
RD5	Overall Unsewered (2008)	on the state	2 b	Not At Risk
RD5a	Unsewered Areas - Pathog	ens (2008) 8	2a	Probably Not At Risk
RD5b	Unsewered Phosphorus (2	008) ent of	25	Not At Risk
RD6a	Arable	Cons	2a	Probably Not At Risk
RD6b	Sheep Dip		2b	Not At Risk
RD6c	Forestry - Dangerous Subs	stances	2b	Not At Risk
RDO	Diffuse Overall -Worst Cas	e (2008)	1a	At Risk
	Hydrology			
RHY1	Water balance - Abstractio	pri	2 b	Not At Risk
	Morphological Risk Sou	rces		
RM1	Channelisation (2008)		2b	Not At Risk
RM2	Embankments (2008)		2 b	Not At Risk
RM3	Impoundments		2b	Not At Risk
RM4	Water Regulation		2b	Not At Risk
RM5	Intensive Landuse			N/A
RMO	Morphology Overall - Wor	st Case (2008)	2b	Not At Risk
	Overall Risk			
RA	Rivers Overall - Worst Cas	ie (2008)	1b	Probably At Risk

wat	ter matters	- Cas	× 2-
	Point Risk Sources		
RP1	WWTPs (2008)	2b	Not At Risk
RP2	CSOs	2b	Not At Risk
RP3	IPPCs (2008)		Not At Risk
RP4	Section 4s (2008)	25	Not At Risk
RP5	WTPs/Mines/Quarries/Landfills		N/A
RPO	Overall Risk from Point Sources - Worst Case (2008)		Not At Risk
	Q Value		
Q	EPA Q rating and Margaritifera Assessment		N/A
	Q/RDI or Point/Diffuse		
QPD	Q class/EPA Diffuse Model or worst case of Point and Diffuse (2008)	1b	Probably At Risk
	Rivers Direct Impacts		
RDI1	Rivers Direct Impacts - Dangerous Substances		N/A

Risk By 'risk' we mean the risk that a waterbody will not achieve good ecological or good chemical status/potential at least by 2015. To examine risk the various pressures acting on the waterbody were identified along with any evidence of impact on water status. Depending on the extent of the pressure and its potential for impact, and the amount of information available, the risk to the water body was placed in one of four categories: 1a at risk; 1b probably at risk; 2a probably not at risk; 2b not at risk. Note that '2008' after the risk category means that the risk assessment was revised in 2008. All other risks were determined as part of an earlier risk assessment in 2005. other risks were determined as part of an earlier risk assessment in 2005.

You can read more about risk assessment in our 'WFD Risk Assessment Update' document in the RBMP document library, and other documents at www.wfdireland.ie (Directory 31 Risk Assessments).

vat	er matters	- Televe	
Obje	ctives Report		
Wate	r Management Unit:	IE_SE_BarrowMain	
Wate	rBody Category:	River Waterbody	south
Wate	rBody Name:	Clonmelsh, Trib of Barrow	
Wate	rBody Code:	IE_SE_14_1391	
Overa	all Objective:	Restore_2021	
Heav	ily Modified:	No	
	Objectives Descripti	on	Result
	Extended timescale i	nformation	
1	Extended timescales due	to time requirements to upgrade WWTP discharges	No Status
2	Extended timescales due chemical status failures	to delayed recovery of chemical pollution and	No Status
13	agricultural outrient losse	to delayed recovery following reduction in	No Status
E 4	physical damage	to delayed recovery from physical modifications and	No Status
:5	Extended timescales due acidification measures	to delayed recovery following implementing forestry	No Status
56	contaminated sites	to physical receivery timescales at mines and	No Status
:7	Extended timescales due	to delayed recovery of highly impacted sites	No Status
E8	Extended timescales due agricultural nutrient losse	to delayed recovery following reduction in	No Status
<u> </u>	Extended timescales due	to delayed recovery from nitrogen losses to estuaries	2021
E10	Extended timescales due agricultural nutrient losse	to delayed recovery following reduction in	No Status
E11	Extended timescales due physical damage (overgra	to delayed recovery from physical modifications and azing)	No Status
E12	Extended timescales due physical damage (channe	to delayed recovery from physical modifications and elisation)	No Status
E13	Extended timescales from	n Northern Ireland Environment Agency	No Status
EOV	Overall extended timesca	ele - combination of all extended timescales fields	2021
E14	Extended timescales due populations	to the presence of Freshwater Pearl Mussel	No Status
EX15	Extended timescales due	to highly impacted sites	No Status

water matters

	Objectives information		
OB1	Prevent deterioration objective		No Status
OB2	Restore at least good status objective		Restore_2021
OB3	Reduce chemical pollution objective		No Status
OB4	Protected areas objective		No Status
OB5	Northern Ireland Environment Agency objective	5	No Status
OBO	Overall objectives		Restore_2021

Extended timescales

Extended timescales have been set for certain waters due to technical, economic, environmental or recovery constraints. Extended timescales are usually of one planning cycle (6 years, to 2021) but in some cases are two planning cycles (to 2027).

Objectives

In general, we are required to ensure that our waters achieve at least good status/potential by 2015, and that their status does not deteriorate. Having identified the status of waters (this is given earlier in this report), the next stage is to set objectives for waters. Objectives consider waters that require protection from deterioration as well as waters that require restoration and the timescales needed for recovery. Four default objectives have been set initially:-

Prevent Deterioration **Restore Good Status** Reduce Chemical Pollution Achieve Protected Areas Objectives

ther use. These objectives have been refined based on the measures available to achieve them, the latter's likely effectiveness, and consideration of cost-effective combinations of measures. Where it is considered necessary extended deadlines have been set for achieving objectives in 2021 or 2027.

wat	er matters	- C. C. Parasa	-
Mea	sures Report		
Wate	er Management Unit:	IE_SE_BarrowMain	
Wate	Body Category:	River Waterbody	south
	erBody Name:	Clonmelsh, Trib of Barrow	iver taun desnet
WaterBody Code:		•	
	-	IE_SE_14_1391	
Mea	vily Modified:	No	
	Measures Descriptio	n	Applicable
BC	Total number of basic me	asures which apply to this waterbody	19
BW	Directive - Bathing Waters	s Directive	No
BIR	Directive - Birds Directive		No
HAB	Directive - Habitats Direct	ive	No
DW	Directive - Drinking Water	rs Directive	No
MAE	Directive - Major Accident	s and Emergencies Directive	Yes
EIA	Directive - Environmental	Impact Assessment Directive Vater Treatment Directive ive Impact Directive Nater Treatment Directive In Products Directive Internation Intern	Yes
SS	Directive - Sewage Sludge	e Directive	Yes
UWT	Directive - Urban Waste V	Vater Treatment Directive	Yes
PPP	Directive - Plant Protectio	n Products Directive Store	Yes
NIT	Directive - Nitrates Direct	ive spectority	Yes
IPC	Directive - Integrated Pol	lution Prevention Control Directive	Yes
CR	Other Stipulated Measure	- Cost recovery for water use	Yes
SUS	Other Stipulated Measure	- Promotion of efficient and sustainable water use	Yes
DWS	Other Stipulated Measure	-Protection of drinking water sources	Yes
ABS	Other Stipulated Measure	- Control of abstraction and impoundment	Yes
POI	Other Stipulated Measure	- Control of point source discharges	Yes
DIF	Other Stipulated Measure	- Control of diffuse source discharges	Yes
PS	Other Stipulated Measure	- Control of priority substances	Yes
MOD	Other Stipulated Measure	- Controls on physical modifications to surface waters	Yes
OA	Other Stipulated Measure	- Controls on other activities impacting on water status	Yes
AP	Other Stipulated Measure pollution incidents	- Prevention or reduction of the impact of accidental	Yes
TP1	WSIP - Agglomerations w	ith treatment plants requiring capital works	No
TP2	WSIP - Aggiomerations w capital works	ith treatment plants requiring further investigation prior to	No
TP3	Shellfish PRPs	equiring the implementation of actions identified in	No
TP4	performance	ith treatment plants requiring improved operational	No
TP5	WSIP - Agglomerations re	equiring investigation of CSOs	No

Date Reported to Europe:July 2010 Date Report Created 20/04/2012 a 11

water matters Arr Pla

TP6	WSIP - Agglomerations where exisitng treatment capacity is currently adequate but predicted loadings would result in overloading	No
OTS	On-site waste water treatment systems	Yes
FPM	Freshwater Pearl Mussel sub-basin plan	No
SHE	Shellfish Pollution Reduction Plan	No
IPR	IPPC licences requiring review	No
WPR	Water Pollution Act licences requiring review	No
FOR	Forestry guidelines and regulations	Yes
CH1	Chanelisation measures	No
CH2	Chanelisation investigations	No
OG	Overgrāzing measures	No
HQW	Protect high quality waters	No
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Measures

Measures Measures are necessary to ensure that we meet the objectives set out in the previous page of this report. Many measures are already provided for in national legislation and must be implemented. Other measures have been recently introduced or are under preparation. A range of additional potential measures are also being considered but require further development. Any agreed additional measures can be introduced through the update of Water Management Unit outers. Action Plans during the implementation process. s.

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