

# Interim Report on the Biological Survey of River Quality

## Results of the 2008 Investigations



## ENVIRONMENTAL PROTECTION AGENCY

The Environmental Protection Agency (EPA) is responsible for protecting and improving the environment as a valuable asset for the people of Ireland. We are committed to protecting people and the environment from the harmful effects of radiation and pollution.

### The work of the EPA can be divided into three main areas:

**Regulation:** *We implement effective regulation and environmental compliance systems to deliver good environmental outcomes and target those who don't comply.*

**Knowledge:** *We provide high quality, targeted and timely environmental data, information and assessment to inform decision making at all levels.*

**Advocacy:** *We work with others to advocate for a clean, productive and well protected environment and for sustainable environmental behaviour.*

## Our Responsibilities

### Licensing

We regulate the following activities so that they do not endanger human health or harm the environment:

- waste facilities (*e.g. landfills, incinerators, waste transfer stations*);
- large scale industrial activities (*e.g. pharmaceutical, cement manufacturing, power plants*);
- intensive agriculture (*e.g. pigs, poultry*);
- the contained use and controlled release of Genetically Modified Organisms (*GMOs*);
- sources of ionising radiation (*e.g. x-ray and radiotherapy equipment, industrial sources*);
- large petrol storage facilities;
- waste water discharges;
- dumping at sea activities.

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- Conducting an annual programme of audits and inspections of EPA licensed facilities.
- Overseeing local authorities' environmental protection responsibilities.
- Supervising the supply of drinking water by public water suppliers.
- Working with local authorities and other agencies to tackle environmental crime by co-ordinating a national enforcement network, targeting offenders and overseeing remediation.
- Enforcing Regulations such as Waste Electrical and Electronic Equipment (WEEE), Restriction of Hazardous Substances (RoHS) and substances that deplete the ozone layer.
- Prosecuting those who flout environmental law and damage the environment.

### Water Management

- Monitoring and reporting on the quality of rivers, lakes, transitional and coastal waters of Ireland and groundwaters; measuring water levels and river flows.
- National coordination and oversight of the Water Framework Directive.
- Monitoring and reporting on Bathing Water Quality.

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- Preparing Ireland's greenhouse gas inventories and projections.
- Implementing the Emissions Trading Directive, for over 100 of the largest producers of carbon dioxide in Ireland.

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- Funding environmental research to identify pressures, inform policy and provide solutions in the areas of climate, water and sustainability.

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- Monitoring radiation levels, assessing exposure of people in Ireland to ionising radiation.
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- Monitoring developments abroad relating to nuclear installations and radiological safety.
- Providing, or overseeing the provision of, specialist radiation protection services.

## Guidance, Accessible Information and Education

- Providing advice and guidance to industry and the public on environmental and radiological protection topics.
- Providing timely and easily accessible environmental information to encourage public participation in environmental decision-making (*e.g. My Local Environment, Radon Maps*).
- Advising Government on matters relating to radiological safety and emergency response.
- Developing a National Hazardous Waste Management Plan to prevent and manage hazardous waste.

## Awareness Raising and Behavioural Change

- Generating greater environmental awareness and influencing positive behavioural change by supporting businesses, communities and householders to become more resource efficient.
- Promoting radon testing in homes and workplaces and encouraging remediation where necessary.

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The EPA is managed by a full time Board, consisting of a Director General and five Directors. The work is carried out across five Offices:

- Office of Environmental Sustainability
- Office of Environmental Enforcement
- Office of Evidence and Assessment
- Office of Radiological Protection
- Office of Communications and Corporate Services

The EPA is assisted by an Advisory Committee of twelve members who meet regularly to discuss issues of concern and provide advice to the Board.



# **Interim Report on the Biological Survey of River Quality**

## **Results of the 2008 Macroinvertebrate Investigations**

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Castle, Co. Tipperary

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## INTRODUCTION

The various uses of rivers inevitably involve conflicting interests and often such uses disrupt river ecology. The fact that several of the more important beneficial uses of rivers (e.g. abstraction, amenity, waste disposal) are dependent on biological processes is rarely appreciated: if the self-purification process, for example, is disrupted (e.g. by pollution, drainage or over-abstraction) some or all beneficial uses may be impaired or lost. It is important, therefore, to keep ecological disruption to a minimum and to maintain the aquatic ecosystem in a healthy, functional condition. Progress towards this goal can be monitored by chemical or biological means or, preferably, by a combination of both. In general it could be said that whilst physico-chemical analysis may measure the *causes* of pollution (i.e. the pollutants) biological analysis is the only means whereby the ecological *effects* of pollution can be measured.

The most commonly encountered forms of pollution in this country are eutrophication and organic pollution; less frequently encountered are non-organic types such as toxic pollution (e.g. by sheep dip or industrial chemicals), siltation (e.g. arising from over-grazing, drainage, quarrying or stone-cutting operations) and, in recent years, acidification in sensitive afforested areas. The term eutrophication is used to describe the abnormal production of plants of all kinds (micro- and macroscopic) in surface waters affected by excessive inputs of the plant nutrients nitrogen and phosphorus. Such inputs arise a) by the leaching or overland runoff from agricultural lands of inorganic nitrogen and phosphorus and b) by the breakdown of organic matter such as sewage, food-processing or other industrial wastes or land-spread animal manure slurries. Eutrophication of surface waters may be also encountered in areas where land is disturbed for peat harvesting or forestry purposes. Organic pollution is a term used

to describe the oxygen depleting effects caused by the breakdown of organic wastes (e.g. sewage) in receiving waters. This biodegradation or self-purification process, as it is called, is dependent, initially at least, on aerobic micro-organisms which reduce the organic material to its constituent elements and in the process consume oxygen. In the presence of organic matter, therefore, ambient dissolved oxygen (DO) levels fall whilst the biochemical oxygen demand (BOD) - a measurement of the rate of oxygen usage by aerobic micro-organisms - rises; this process also leads to eutrophication due to the release of compounds of nitrogen and phosphorus.

The measurement of the ambient concentrations of such parameters, therefore, gives a good indication of the condition of the water as regards contamination by organic waste. Traditionally, this type of waste has mostly originated at 'point-source' discharges (sewage, industrial wastes), but in recent years an ever increasing proportion arises from 'diffuse' agricultural sources, i.e., runoff from land of wastes from intensive animal-rearing operations, the development of which in the past 30 years has been accompanied by a very marked increase in the extent of eutrophication.

All types of pollution cause physico-chemical and biological changes in receiving waters and so the assessment of water quality/pollution may be approached from the chemical or the biological aspect. In practice, a combination of both approaches is preferable to either on its own.

National surveys of Irish rivers have been carried out on a continuous basis since 1971 when 2,900 km of river channel was surveyed. The surveys presently combine general chemical and biological assessments with some 13,200 km of river channel surveyed over each three year

cycle (Clabby *et al.*, 2008, Toner *et al.*, 2005).

The Water Framework Directive (WFD), establishing a framework for European Union (EU) community action in the field of water policy, was adopted by the EU in October 2000 (2000/60/EC). The directive provides a new approach for the protection and improvement of water resources and aquatic ecosystems and aims to protect and enhance all waters (ground-waters, surface waters, transitional and coastal waters, water dependent ecosystems and wetlands). It aims to achieve these objectives through a process of river basin management planning supported by status assessments derived from these new monitoring programmes.

As part of the WFD implementation process, the Environmental Protection Agency (EPA) was required to develop new monitoring programmes for surface (rivers and lakes), ground-waters, estuarine and coastal waters. The monitoring programmes became operational in December 2006 (EPA, 2006) and in 2007 the new Water Framework Directive Rivers Monitoring Programme replaced the national river monitoring programme.

The EPA is responsible for carrying out the WFD monitoring of the biological elements (including the surveying and assessment of aquatic macroinvertebrates and aquatic plants and algae) in order to establish ecological status. The EPA is also responsible where appropriate for the hydromorphological assessment of the rivers network. The Local Authorities are responsible for the physico-chemical and chemical monitoring with several of the EPA Regional Laboratories also undertaking monitoring functions.

The EPA Quality Rating System (Q-Value) has been employed to determine the quality status of the macroinvertebrate communities at river sites across the

country since the 1970s. This system was tested and intercalibrated at European level (2008/915/EC) and was adopted as the official macroinvertebrate classification system for assessing rivers in the Republic of Ireland (S.I. No. 272 of 2009). The River Hydromorphological Assessment Technique (RHAT) is applied to assess hydromorphology and to differentiate between high and good ecological status sites.

The Q-Value System is based on the well-established sensitivities, abundance and diversity of macroinvertebrates and their relation to water quality. The system is effectively a proprietary expert system.

The EPA recommends employing a risk score approach using the Small Streams Risk Score (SSRS) for investigative monitoring. This is a rapid biological method that reliably assesses sites that are at risk of failing to meet good status based on the macroinvertebrate community. The SSRS was developed by the Western River Basin District in conjunction with the EPA and has proved useful in undertaking further characterisation of risk for the WFD Article 5 Characterisation Report. The method produces a continuous score and threshold values are used to decide on the degree of risk at a site. It is possible to compare 'before' and 'after' scores, which may be useful in assessing the potential impact of a development. The SSRS system has a recognised training course and operators must pass a quality assurance check by submitting samples for quality control purposes.

### **Biological Assessment**

In the presence of pollution, characteristic and well-documented changes are induced in the flora and fauna of rivers and streams. Particularly well-documented are the changes brought about by organic pollution in the macroinvertebrate community, i.e. the immature aquatic stages of aerial insects (mayflies, stoneflies etc.) together

with Crustacea (e.g. shrimps), Mollusca (e.g. snails and bivalves), Oligochaeta (worms) and Hirudinea (leeches). The changes that occur are due to the varying sensitivities of the different components of the community to the stresses caused by pollution. It is known that similar organisms inhabit similar habitats and that the most sensitive species inhabit the riffle areas. It is also well known that community diversity declines in the presence of pollution and that sensitive species are progressively replaced by more tolerant forms as pollution increases. Ideally, all the components of the aquatic biota (the micro- and macro-fauna and flora) should be utilised. Under the WFD monitoring programme aquatic flora including macrophytes, macroalgae and benthic algae (phytobenthos) (surveillance sites only) are surveyed. For the purposes of this report, only the macroinvertebrate Q value results are presented however the river assessments may mention the condition of the flora.

In contrast to physico-chemical surveys which extend throughout the year, biological macroinvertebrate surveys are usually undertaken in the summer-autumn period (June to September) when flows are likely to be relatively low, surveys during this period are likely, therefore, to coincide with the worst conditions to be expected in those reaches affected by waste inputs.

Biological material for examination is obtained by kick-sampling with a standard pond net in the shallower, faster-flowing areas (riffles) and the assessment of water quality is made on site. The relative proportion of the various macroinvertebrate organisms in the sample is determined. Water quality is inferred by a comparison of this data with that which might be expected from unpolluted habitats of the type under investigation.

Relationships between water quality and macroinvertebrate community structure are

usually described by means of a numerical scale of values. Such a compression of biological information inevitably results in a loss of meaningful information but some such procedure is essential if this information is to be meaningful to non-biologists. The EPA scheme of Biotic Indices or Quality (Q) Value (Toner *et al.*, 2005) and its relationship to water quality is set out in Table 1.

The intermediate values (Q1-2, 2-3, 3-4 etc.) denote transitional conditions. The scheme mainly reflects the effects of organic pollution (i.e. deoxygenation and eutrophication) but where a toxic effect is apparent or suspected the suffix '0' is added to the biotic index (e.g. Q1/0, 2/0 or 3/0). An asterisk after the Q value (e.g. Q3\*) indicates something worthy of special attention, typically heavy siltation of the substratum.

Class A waters are those in which problems relating to existing or potential beneficial uses are unlikely to arise and are, therefore, regarded as being in a 'satisfactory' condition. These waters are classified as high or good under the Water Framework Directive status classification (Table 1).

Classes B, C and D reflect increasing levels of pollution and ecological impairment, and are consequently regarded as 'unsatisfactory' to a lesser or greater degree and would therefore fail under the WFD classification.

Class B (slightly polluted) waters are mainly characterised by eutrophication and frequently also by some deposition of silt on the substratum; eutrophication is the artificial over-enrichment of waters by phosphorus and/or nitrogen which in rivers may cause excessive growths of rooted plants and filamentous algae. The respiration of these plants may be sufficient to deplete dissolved oxygen (DO) to such a degree that game fish,



especially the young stages, may be killed in extreme circumstances. DO levels can drop significantly at night when photosynthetic activity has ceased.

Class C (moderately polluted) waters are typically extremely eutrophic and frequently impacted by other influences such as organic pollution (for example in recovery zones below sewage discharges). They may be subject to other influences such as siltation (due to drainage activities), the toxic effects of mining or forestry-induced acidification in sensitive upland areas.

Class D (seriously polluted) waters are typically characterised by very high concentrations of biodegradable organic waste causing deoxygenation and the growth of unsightly bacterial and fungal slimes ('sewage fungus' or 'bacterial tufts'). In extreme cases the substratum may be blanketed with deposits of malodorous anaerobic sludge. Only the most tolerant invertebrates (e.g. sludge worms) are to be found in such conditions, and virtually all beneficial uses are lost. Where serious toxicity occurs (e.g. due to mining or other sources of toxic spillages or discharges) virtually all aquatic life may be extinguished.

From 2007 onwards a five-class quality system will replace the current four-class system. The new class was created by dividing the existing Class A (unpolluted) category into two new classes – High Status and Good Status waters – in compliance with the WFD classification requirements. These have already been intercalibrated at European level for a range of biological quality elements to ensure comparability between Irish river status assessments and those of other countries.

Other relevant factors such as the intensity of algal and/or weed development, presence of slime growths, water turbidity,

siltation, degree of shading, conductivity, dissolved oxygen and water temperature, are also recorded in the assessment procedure.

The EPA National Biological Rivers programme is part of the WFD monitoring programme and is carried out over a three year cycle. A total of 729 survey visits were carried out on 312 rivers and streams in 2008. A total of 6 hydrometric areas were surveyed in full while three hydrometric areas (HA 01, 25 and 26) were partially surveyed.

The 2008 Interim Biological (aquatic macroinvertebrate) Results are presented in Hydrometric Order. The Summary statistics are shown at the end of each Hydrometric Area for the 2007 – 2009 survey period. If a site exhibited serious pollution and improved during the three year cycle period the summary statistics only show the final status. Details of the estimated channel length (km) within each quality class for each river surveyed are presented in tabular form. Trend data detailing the percentage of channel length within each of the four original quality classes (Classes A - D) for past and current cycles are shown. A pie-chart is also presented for the current (2007 – 2009) survey cycle detailing the percentage of channel length for each Hydrometric Area currently classified under the five WFD quality status classes.

Additional information detailing the upstream catchment characteristics including the Corine land use information are also presented for each station where available.

The additional survey results for 2008 are also presented, including Investigative surveys, Exchange of Information surveys and Seriously Polluted site surveys. The Enforcement of Seriously Polluted River Stations Programme commenced in 2007. Any site deemed to be seriously polluted

(i.e. Q2-Q1) upon survey, will warrant annual biological surveys and further investigation by the EPA Office of Environmental Enforcement until such time when the condition improves. Once the station improves surveys return to the normal three year survey cycle at the site.

The River Interim Biological Results are also presented on the EPA ENVISION maps ([www.epa.ie](http://www.epa.ie)) and the individual River Reports are available at [www.epa.ie/QValue/webusers/](http://www.epa.ie/QValue/webusers/).

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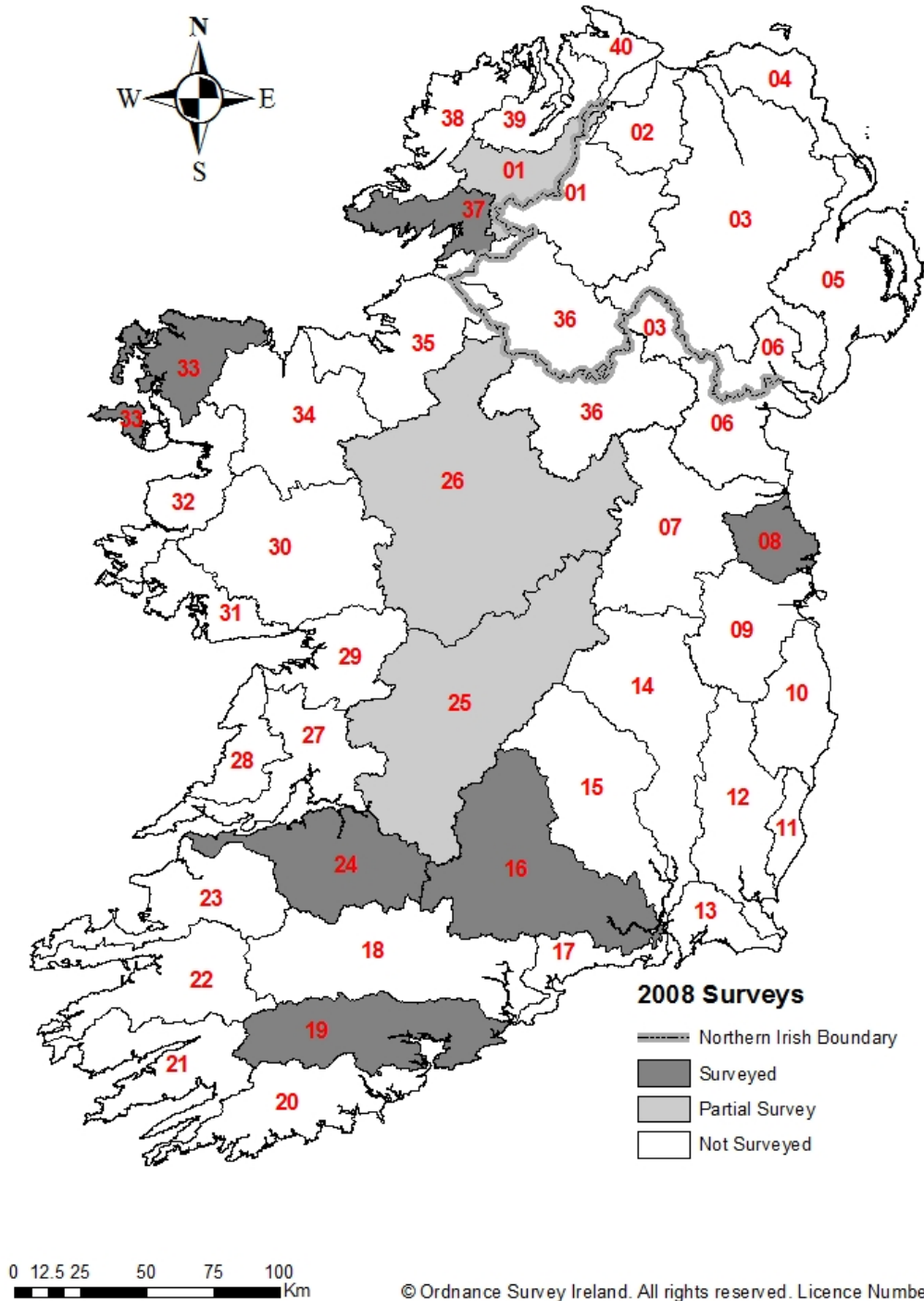
**Table 1: The EPA Q-value classification system and its relationship to water quality**

Q Value	WFD Status	Pollution Status	Condition*	EPA Quality Class
Q5, Q4-5	High	Unpolluted	Satisfactory	Class A
Q4	Good	Unpolluted	Satisfactory	Class A
Q3-4	Moderate	Slightly polluted	Unsatisfactory	Class B
Q3, Q2-3	Poor	Moderately polluted	Unsatisfactory	Class C
Q2, Q1-2, Q1	Bad	Seriously polluted	Unsatisfactory	Class D

\*Condition' refers to the likelihood of interference with beneficial or potential beneficial use.

# 2008 INTERIM BIOLOGICAL (MACROINVERTEBRATE) REPORTS

## Principal Hydrometric Areas Surveyed



**HYDROMETRIC AREA 01 (Foyle – Balance of Survey)**

*Partial Survey in 2007, Balance of Survey in 2008*

CLOGHER (FINN)	01C06
CRONAMUCK	01C02
GREENHILL STREAM *	01G02
REELAN	01R01
ST JOHNSTON	01S01
# SWILLY BURN	01S03

# indicates rivers having seriously polluted stretches at time of this survey.

\* GREENHILL STREAM Previously part of Carrigans 01C01

River and Code : **CLOGHER (FINN)**

01/C/06

Tributary of : 01R01 REELAN

OS Catchment No: 62

OS Grid Ref of Confluence: H 018 964

Date(s) Surveyed: 12/5/2008, 13/5/2008

Station Nos.	Biological Quality Ratings (Q Values)							
	1990	1994	1997	1998	2001	2004	2007	2008
0025	-	-	-	-	-	-	-	3-4
0035	-	-	-	-	-	-	-	4
0040	-	-	-	-	-	-	-	4
0042	-	-	-	-	-	-	-	3-4/0
0044	-	-	-	-	-	-	-	3/0
0045	-	-	-	-	-	-	-	3-4/0
0050	-	-	-	-	-	-	-	3-4/0
0100	4-5	3-4	3-4	3	3-4	3/0	3	3-4

**Assessment:** The Clogher (Finn) was sampled in 2008 as part of an investigation into suspected toxic pollution first noted further downstream on the Reelan River (01R01) which is an important tributary of the River Finn. The main suspected cause was sheep dip use in the catchment. A more extensive investigation was undertaken by Donegal County Council, the EPA and the Loughs Agency and this is ongoing.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0025	S Stroangarrow	200545	393846	11	DL
0035	u/s sheep dip stream confl	200781	393927	11	DL
0040	d/s sheep dip stream	200844	393941	11	DL
0042	At Grid Ref: H 00902 93956	200902	393956	11	DL
0044	At Grid Ref: H 01040 93985	201040	393985	11	DL
0045	H01081 93984 150m u/s 0050 .	201081	393984	11	DL
0050	Br Sw Letterkillev	201235	394080	11	DL
0100	Br W Ballykergan	201750	394904	11	DL

**Site Altitude and Upstream Catchment Characteristics (where available):**

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	85	38	49	51	5	9	62	0	1	0	23

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CRONAMUCK**  
 Tributary of : 01C06 CLOGHER (FINN)  
 OS Grid Ref of Confluence:  
 Date(s) Surveyed: 13/5/2008

**01/C/02**

OS Catchment No:

<b>Station Nos.</b>	<b>2008</b>	Biological Quality Ratings (Q Values)
0100	3-4	

**Assessment:** The Cronamuck was of moderate status when surveyed as part of investigative monitoring in May 2008 into problems observed in the Reelan and Clogher Rivers (q.v.) (suspected sheep dip problems). The Cronamuck lacked in sensitive taxa in terms of numbers and abundance especially for a May sample when a much greater diversity of mayflies and stoneflies would have been expected. The upper catchment has coniferous forestry plantations.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	0.1 km u/s Clogher River conf.	201437	394110	11	DL

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River and Code : **GREENHILL STREAM** **01/G/02**  
 Tributary of : 01C01 CARRIGANS OS Catchment No: 61  
 OS Grid Ref of Confluence:  
 Date(s) Surveyed: 12/9/2008

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*Previously part of Carrigans 01C01*

Station Nos.	Biological Quality Ratings (Q Values)							
	1990	1994	1997	1998	2002	2004	2007	2008
0100	1/0	1	1-2/0	1/0	2	1-2	1-2/0	3

**Assessment:** A major improvement in water quality was noted in the Greenhill Stream in 2008. This is the first time it has been recorded as better than 'Bad' status since biological monitoring began at this site.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br at Greenhill	235518	412179	7	DL

River and Code : **REELAN**  
 Tributary of : 01F01 FINN (DONEGAL)  
 OS Grid Ref of Confluence: H 042 979  
 Date(s) Surveyed: 12/5/2008

**01/R/01**  
 OS Catchment No: 62

Station Nos.	Biological Quality Ratings (Q Values)							
	1990	1994	1997	1998	2001	2004	2007	2008
0200	5	4	4-5	4	4-5	3-4	3-4	-
0300	5	-	-	-	-	-	-	3-4
0500	5	4-5	4	3-4	4-5	3	3	3-4

**Assessment:** A special survey was undertaken of the Reelan in 2008 following ongoing water quality problems noted in 2007 and 2004. The Clogher (Finn) (q.v.) a main tributary of the Reelan appeared to be suffering from quite serious decline in water quality and it is believed that this river is one of the main sources of pollutants that are impacting the main Reelan and Finn Rivers. Sheep dip is the main suspected pollutant under investigation in the catchment.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Ford W. of Carrickagh	197761	396488	11	DL
0300	Bridge E. of Carrickagh	200510	396437	11	DL
0500	Reelan Bridge	202343	397088	11	DL

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	121	34	78	22	0	3	62	0	3	0	32
0500	64	90	70	30	6	7	60	0	2	0	25

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.



River and Code : **ST JOHNSTON**  
 Tributary of : 01F02 FOYLE  
 OS Grid Ref of Confluence: C 351 097  
 Date(s) Surveyed: 12/9/2008

**01/S/01**  
 OS Catchment No: 61

Station Nos.	Biological Quality Ratings (Q Values)													
	1973	1977	1979	1981	1985	1988	1990	1994	1997	1998	2002	2004	2007	2008
0100	4-5	4	3	4	2-3	-	2-3	-	-	-	-	-	-	-
0200	-	-	-	-	3	-	3	-	-	-	-	-	-	-
0280	-	-	-	-	2	2	1-2	3	2-3	1-2	2	3	2	3-4
0300	3	2-3	1	1	-	-	-	-	-	-	-	-	-	-

**Assessment:** An improvement in water quality was noted at St. Johnston in comparison with August 2007. It is now classified as being of moderate status at Station 0280 in St. Johnston.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge N. of Magheracloy	231140	408780	7	DL
0200	Bridge N.E. of Kinnacolly	233215	409535	7	DL
0280	Second Bridge u/s Foyle River	234545	409924	7	DL
0300	First Bridge u/s Foyle River	234814	409877	7	DL

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0280	9	23	100	0	49	0	3	0	43	0	4
0300	9	23	100	0	49	0	3	0	43	0	4

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **SWILLY BURN**

**01/S/03**

Tributary of : 01F02 FOYLE

OS Catchment No: 61

OS Grid Ref of Confluence: C 352 046

Date(s) Surveyed: 12/9/2008

Station Nos.	Biological Quality Ratings (Q Values)										
	1973	1977	1981	1985	1994	1997	1998	2002	2004	2007	2008
0100	5	5	4-5	4	3	3-4	3-4	4	4	-	-
0200	3	3	3	2	2-3	3	2-3	3	2-3	2	2
0250	3-4	4	4	3	3	-	-	-	-	3	-
0300	-	-	-	-	-	-	3	2-3	-	-	-
0400	-	-	-	-	2	3	-	-	-	-	-

**Assessment:** The Swilly Burn was surveyed downstream of Raphoe (0200) and was once again found to be seriously polluted at that location due to sewage discharges.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br NE of Tullyvinny	224284	402134	6	DL
0200	Br 1.5 km SE of Raphoe S Magheraha	226411	401893	6	DL
0250	Br Near Massmore	228700	401700	6	DL
0300	Br due N of Ballindrait	230351	402555	7	DL
0400	Swilly Br	232717	403819	7	DL

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	32	5	100	0	63	7	20	0	8	0	3
0200	15	11	100	0	69	3	10	4	12	0	2
0300	5	36	100	0	72	1	3	2	20	0	2
0400	5	48	100	0	71	1	3	1	23	0	2

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

**NWIRBD: HYDROMETRIC AREA NO. 01**

The baseline rivers showing the channel length surveyed (km) and the estimated channel length in four biological quality classes: A - Unpolluted, B - Slightly polluted/eutrophic, C - Moderately polluted and D - Seriously polluted. Data from biological surveys in period 2007-2009.

Channel Length (km) in Class			A	A	B	C	D	Total
WFD Quality Class			High	Good	Moderate	Poor	Bad	
River Name	Year	Code						
Bunadaowen	2007	01B01	0.0	0.0	0.0	4.0	0.0	4.0
Burn Darnett	2007	01B02	0.0	0.0	0.0	6.0	0.0	6.0
Carrigans	2007	01C01	0.0	0.0	0.0	6.0	0.0	6.0
Clogher (Finn)	2008	01C06	0.0	0.0	7.0	0.0	0.0	7.0
Cloghroe	2007	01C05	0.0	6.0	0.0	1.0	0.0	7.0
Cronamuck <sup>1</sup>	2008	01C02	0.0	0.0	1.0	0.0	0.0	1.0
Cross Roads Stream	2007	01C04	0.0	3.0	0.0	1.0	0.0	4.0
Cummirk	2007	01C03	0.0	0.0	0.0	9.0	0.0	9.0
Deele (Donegal)	2007	01D01	11.0	24.5	2.0	0.5	0.0	38.0
Elatagh	2007	01E02	0.0	0.0	0.0	7.0	0.0	7.0
Finn	2007	01F01	0.0	20.5	3.0	28.0	0.0	51.5
Greenhill Stream <sup>1</sup>	2008	01G02	0.0	0.0	0.0	1.0	0.0	1.0
Mourne Beg	2007	01M01	0.0	0.0	0.0	16.5	0.0	16.5
Reelan	2008	01R01	0.0	0.0	15.0	0.0	0.0	15.0
Rough Burn	2007	01R02	0.0	3.5	0.0	0.0	0.0	3.5
St Johnston <sup>1</sup>	2008	01S01	0.0	0.0	6.0	0.0	0.0	6.0
Stranagappoge	2007	01S02	0.0	8.0	0.0	0.0	0.0	8.0
Swilly Burn	2007/08	01S03	0.0	4.0	8.5	2.0	1.5	16.0
Total Length (km) surveyed this cycle	2007/ '08		11.0	69.5	42.5	82.0	1.5	206.5
Adjustments (See below)*			0.0	0.0	7.0	1.0	0.0	8.0
Percentages			5.5	35.0	17.9	40.8	0.8	100.0
Channel Length (km) in Class				<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>Total</b>
Baseline: Current adjusted Status (km)	2007/ '08			80.5	35.5	81.0	1.5	198.5
Percentages				40.6	17.9	40.8	0.8	100.0
Baseline: Previous Unadjusted Status (km)	2004- '06			92.5	55.5	50.5	0.0	198.5
Percentages				46.6	28.0	25.4	0.0	
Changes since Previous Survey ( Km )				-12.0	-20.0	30.5	1.5	0.0

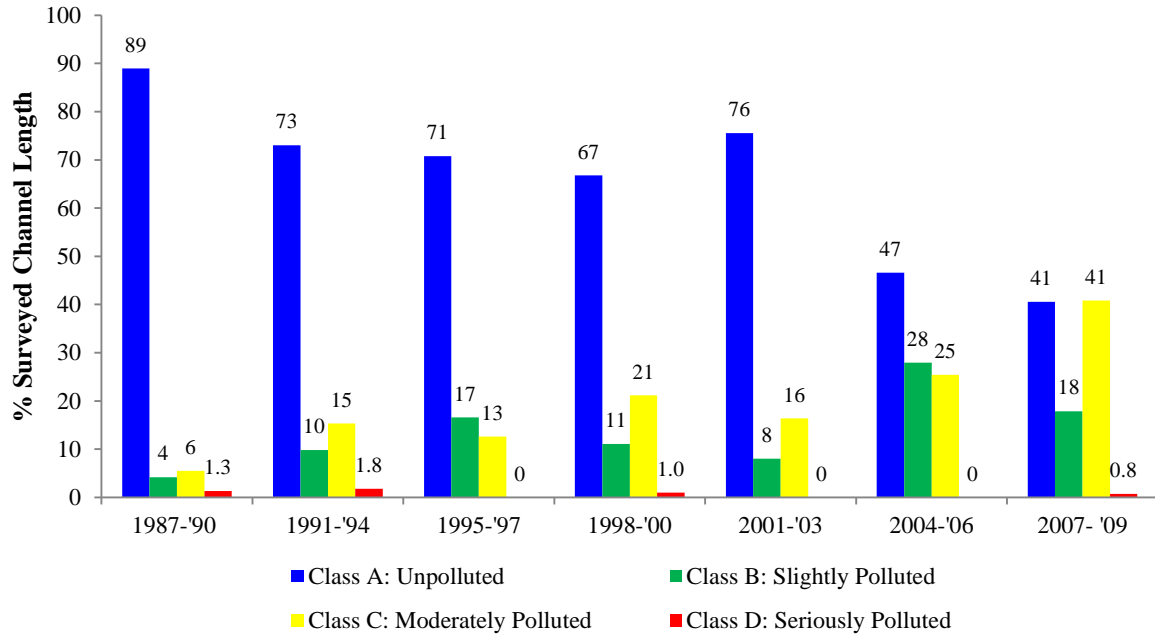
\* Adjustments: Deduct the 'extras' (+), add the 'shortages' (-).

\*\* Clabby *et al.*, 2008

<sup>1</sup> Rivers not previously included in the National Statistics

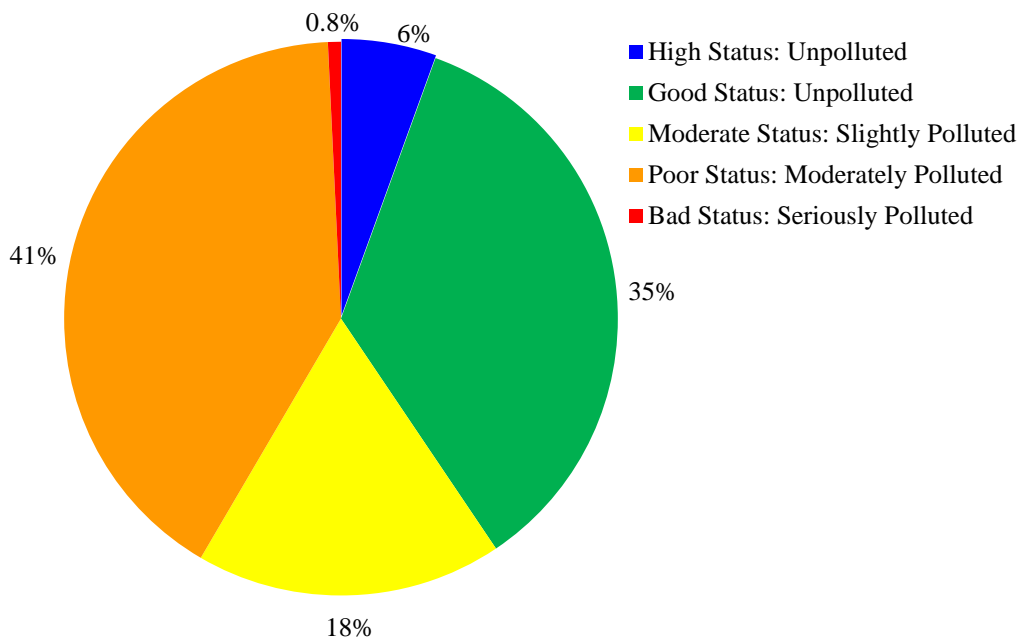
**Hydrometric Area 01 : Trends**

% Surveyed Channel Length in Four Quality Classes



**Hydrometric Area 01 : 2007 - '09**

% Surveyed Channel Length in Five WFD Quality Classes



**HYDROMETRIC AREA 08 (Nanny – Devlin)**

BALLOUGH STREAM	08B03
BALLYBOGHIL	08B01
BROADMEADOW	08B02
DELVIN	08D01
# DUNSHAUGHLIN STREAM *	08D03
FAIRYHOUSE STREAM	08F01
HURLEY	08H01
MOSNEY	08M02
NANNY (MEATH)	08N01
RATOATH STREAM *	08R01
WARD	08W01

# indicates rivers having seriously polluted stretches at time of this survey.

\* DUNSHAUGHLIN STREAM Formerly Broadmeadow North Branch 08B02

\* RATOATH STREAM Formerly Ratoath Branch of the Broad Meadow 08B02

River and Code : **BALLOUGH STREAM**

**08/B/03**

Tributary of : 08B01 BALLYBOGHIL

OS Catchment No: 163

OS Grid Ref of Confluence: O 204 515

Date(s) Surveyed: 2/7/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1988	1991	1996	1998	2001	2005	2008
1600	3	3	3	3	3-4	3	3

**Assessment:** The macroinvertebrate fauna continues to be dominated by pollution tolerant taxa at Corduff Bridge, indicating significant ecological disruption when sampled in July 2008. Agriculture suspected.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
1600	Corduff Br	319905	252205	43	DN

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
1600	5	32	0	100	23	0	0	3	74	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BALLYBOGHIL**  
 Tributary of : Rogerstown Estuary, Rush  
 OS Grid Ref of Confluence: O 203 514  
 Date(s) Surveyed: 2/7/2008, 7/7/2008

**08/B/01**

OS Catchment No: 163

Station Nos.	Biological Quality Ratings (Q Values)					
	1991	1996	1998	2001	2005	2008
1900	-	2	3	3-4	3	2-3
2200	3	3	3	3/0	3	3

**Assessment:** The complete absence of sensitive macroinvertebrate species continues to indicate considerable ecological disruption at both locations surveyed on the Ballyboghil River in July 2008. Agriculture suspected.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
1900	Br near Wyanstown	311213	255730	43	DN
2200	Br in Ballyboghil	315044	253632	43	DN

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
1900	66	4	0	100	41	0	0	0	59	0	0
2200	31	24	0	100	32	0	0	0	68	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BROADMEADOW**

08/B/02

Tributary of : Sea - Malahide Estuary

OS Catchment No: 164

OS Grid Ref of Confluence: O 192 423

Date(s) Surveyed: 2/7/2008, 4/7/2008, 7/7/2008

Biological Quality Ratings (Q Values)

Station Nos.	1971	1973	1974	1976	1981	1983	1985	1988	1989	1991	1994	1996	1998	2001	2005	2008
0400	-	-	-	-	3	3	2-3	3	2-3	2	3	3	2-3	2-3	2-3	2-3
0500	2	3	2-3	2	3	1	2-3	2	2-3	1-2	2-3	1-2	1	2-3	2-3	3
0550	-	-	-	-	-	-	-	3	2-3	3	3	-	-	-	-	-
0600	-	-	-	-	3	2-3	3-4	3-4	-	3	-	3	2-3	3	3	3
0800	3-4	4	3-4	3	3-4	3	3	3	-	3	-	3	2-3	3	2-3	3

**Assessment:** As in previous surveys sensitive macroinvertebrate species were not observed at any locations surveyed on the Broadmeadow in 2008 indicating significant ecological disruption over its course. A slight improvement was noted at Stations 0500 (Milltown Bridge) and 0800 (Balheary Bridge). Stations 0150 and 0200 have been re-assigned to the Ratoath Stream (08R01) and Station 0300 to the Dunshaughlin Stream (08D03).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0400	Br 0.5km u/s Ashbourne Br	306003	252316	43	MH
0500	Milltown Br	307178	251783	43	MH
0550	Robertstown Br	308416	251048	43	DN
0600	Greenoge Br (WSW of Fieldstown Ho)	310722	250322	43	DN
0800	Balheary Bridge	318179	248297	50	DN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0400	64	35	0	100	70	0	0	9	22	0	0
0500	60	40	0	100	64	0	0	11	25	0	0
0600	37	67	0	100	59	0	0	7	34	0	0
0800	5	112	0	100	53	0	0	6	41	0	0

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.



River and Code : **DELVIN**  
 Tributary of : Sea - Gormanston  
 OS Grid Ref of Confluence: O 182 664  
 Date(s) Surveyed: 10/6/2008

**08/D/01**  
 OS Catchment No: 162

Station Nos.							Biological Quality Ratings (Q Values)				
	1978	1980	1982	1986	1988	1991	1996	1998	2001	2005	2008
0080	-	-	-	-	3	3-4	3-4	3	3	3	3
0250	-	-	-	-	-	-	3	4	4	4	3-4*
0400	3	3-4	3-4	3-4	3	3-4	3	4	3	4	3

**Assessment:** The Delvin River was in an unsatisfactory ecological condition when sampled in 2008. An unwelcome decline in ecological quality was noted at stations 0250 (Bridge NW of Forty Acres) and 0400 (Gormanstown Bridge) when sampled in June 2008. Heavy siltation was noted at both stations.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0080	Br W of Naul	312000	260678	43	DN
0250	Br NW of Forty Acres	314367	263758	43	DN
0400	Gormanstown Br	317070	265794	43	DN

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0080	64	34	23	77	65	0	0	1	34	0	0
0250	37	45	28	72	60	0	0	2	38	0	0
0400	11	71	53	47	60	0	0	1	38	0	0

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DUNSHAUGHLIN STREAM**

**08/D/03**

Tributary of : 08B02 BROADMEADOW

OS Catchment No: 164

OS Grid Ref of Confluence: O 057 522

Date(s) Surveyed: 7/7/2008

*Formerly Broadmeadow North Branch 08B02*

Biological Quality Ratings (Q Values)

Station Nos.	1971	1973	1974	1976	1981	1983	1985	1987	1988	1989	1996	1998	2001	2005	2008
0300	2	3	2	2	2	2-3	2	2-3	3	2-3	1-2	3	2-3/0	3	2

**Assessment:** Serious pollution was noted at Cookstown Bridge on the Dunshaughlin Stream when sampled in July 2008. Industry, sewage and agriculture suspected. This location was formerly included with the Broadmeadow (q.v.).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Cookstown Br	304955	252580	43	MH

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	68	15	0	100	75	0	0	5	19	0	0

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **FAIRYHOUSE STREAM**

**08/F/01**

Tributary of : 08B02 BROADMEADOW

OS Catchment No: 164

OS Grid Ref of Confluence: O 089 504

Date(s) Surveyed: 1/7/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1988	1991	1996	1998	2001	2005	2008
0200	-	-	3	3	-	-	-
0300	3	-	-	-	-	-	-
0500	3	3	3	2-3/0	2-3	3	3

**Assessment:** The Fairyhouse Stream was again in an unsatisfactory ecological condition when sampled in 2008. Agriculture suspected. The lack of a vegetated buffer zone and unrestricted livestock access is contributing to severe bank erosion and heavy instream siltation.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Peacockstown	304052	249600	50	MH
0300	Br nr Harlockstown	0	0	43	
0500	Donaghmore Br	308045	250609	43	MH

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	81	4	0	100	49	0	0	0	51	0	0
0500	56	17	0	100	52	0	0	0	47	0	0

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **HURLEY**  
 Tributary of : 08N01 NANNY (MEATH)  
 OS Grid Ref of Confluence: O 003 655  
 Date(s) Surveyed: 10/6/2008, 22/5/2008

**08/H/01**

OS Catchment No: 160

Station Nos.							Biological Quality Ratings (Q Values)				
	1978	1980	1982	1984	1988	1991	1996	1998	2001	2005	2008
0060	-	-	-	-	-	-	3	3/0	3	-	-
0200	-	3-4	3-4	3-4	3	3	3-4	3-4	3-4	3-4	3*
0280	-	-	-	-	3	3	3-4	4	4	4	3
0400	4	3	1	3-4	3-4	3	3-4	3-4	3	4	3-4

**Assessment:** The Hurley River was in an unsatisfactory ecological condition when sampled in June 2008. An unwelcome decline in ecological quality was noted at all stations surveyed. Heavy siltation was noted at all three stations and abundant algal growth was noted at stations 0280 (Rathfeigh Old Bridge) and 0400 (Bridge upstream of Nanny River confluence).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0060	Br S of Borranstown House	305613	255586	43	DN
0200	Br at Painestown	300406	258465	43	MH
0280	Rathfeigh Old Bridge	299842	262134	43	MH
0400	Just u/s Nanny R confl	303533	265437	43	MH

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0060	88	4	0	100	83	0	0	0	17	0	0
0200	65	31	0	100	61	0	0	0	39	0	0
0280	51	48	0	100	58	0	0	1	40	0	1
0400	26	93	15	85	62	0	0	1	37	0	1

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **MOSNEY** **08/M/02**  
 Tributary of : Sea - North of Benhead OS Catchment No: 161  
 OS Grid Ref of Confluence: O 168 698  
 Date(s) Surveyed: 10/6/2008

Station Nos.	Biological Quality Ratings (Q Values)									
	1978	1983	1986	1988	1991	1996	1998	2001	2005	2008
0100	3-4	3-4	4	3-4	3	3	3-4	3	3	3

**Assessment:** The continuing dominance of pollution tolerant macroinvertebrate species and lack of sensitive taxa indicates that the Mosney Stream was again in an unsatisfactory ecological condition when sampled in June 2008.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br S of Mosney Ho	315914	269383	43	MH

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	10	12	100	0	58	0	0	1	42	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **NANNY (MEATH)**

08/N/01

Tributary of : Sea - Laytown

OS Catchment No: 160

OS Grid Ref of Confluence: O 163 712

Date(s) Surveyed: 22/5/2008

Station Nos.	Biological Quality Ratings (Q Values)												
	1971	1974	1978	1980	1982	1986	1988	1991	1996	1998	2001	2005	2008
0040	-	-	-	-	-	-	-	-	2-3	2-3	2	2-3	3
0090	-	-	-	-	-	-	2-3	2-3	-	-	-	-	-
0110	-	-	-	-	-	-	3	3	3	2-3	2-3	2-3	2-3
0200	-	-	-	3-4	2-3	3	3-4	3-4	-	-	-	-	-
0280	-	-	-	-	-	-	3	3	3	3-4	3-4	4	4
0300	5	4-5	3-4	3	1-2	2	-	3	-	-	-	-	-
0400	4-5	3-4	4	3-4	4	3-4	2-3	3	-	-	-	-	-
0500	3	1-2	3	3	3-4	3-4	3	3-4	3	3-4	3-4	3-4	3
0600	-	-	-	3-4	3	3-4	3	-	-	-	-	-	-
0700	4	3-4	3	3	3-4	3-4	3-4	3	3-4	3-4	3	3-4	3-4

**Assessment:** The Nanny River was in a generally unsatisfactory ecological condition when sampled in May 2008. Only one location (0280) could be considered satisfactory as regards macroinvertebrate composition however the development of calcite and compaction of the substrate with silt indicated that some impact is occurring. A slight improvement was noted at Folistown Bridge (0040) but again the substratum here and also downstream at Kentstown (0110) was very heavily silted. There was a further decline in quality noted downstream where luxuriant algal crops and considerable bottom siltation at Bellewstown (0500) and Julianstown (0700) continued to indicate eutrophication and possibly land disturbance.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0040	Folistown Br	292819	266023	43	MH
0090	East Br S of Brownstown	295049	264923	43	MH
0110	East Br Kentstown	297656	264965	43	MH
0200	Br S of Balrath X-Rds	300168	264614	43	MH
0280	Br d/s Nanny Br	302759	265156	43	MH
0300	Br nr Deenes	303555	265547	43	MH
0400	Upstream Br Duleek	305037	268351	43	MH
0500	Br NE of Bellewstown Ho	307307	269147	43	MH
0600	Beaumont Br	308588	269637	43	MH
0700	Br at Julianstown	313407	270316	43	MH

## *Hydrometric Area 08*

*Site Altitude and Upstream Catchment Characteristics (where available):*

<b>Site No.</b>	<b>Alt</b>	<b>Area</b>	<b>Sil</b>	<b>Cal</b>	<b>Pasture</b>	<b>Forestry</b>	<b>Bogs</b>	<b>Urban</b>	<b>Misc Ag.</b>	<b>Water</b>	<b>Other</b>
0040	71	4	0	100	72	0	0	0	28	0	0
0110	43	19	0	100	58	0	0	4	38	0	0
0280	27	50	0	100	56	1	0	1	42	0	0
0500	15	197	22	78	59	0	0	1	39	0	0
0700	1	218	23	77	58	0	0	2	40	0	0

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **RATOATH STREAM** **08/R/01**  
 Tributary of : 08B02 BROADMEADOW OS Catchment No: 164  
 OS Grid Ref of Confluence: O 057 522  
 Date(s) Surveyed: 3/7/2008

*Formerly Ratoath Branch of the Broad Meadow 08B02*

Station Nos.	Biological Quality Ratings (Q Values)									
	1988	1989	1990	1991	1994	1996	1998	2001	2005	2008
0150	2	2	2	2	2	2	2	2-3	3	2-3

**Assessment:** The Ratoath stream continues to be in poor ecological condition with a further decline in quality noted at Station 0150 (Bridge in Ratoath) when sampled in July 2008. Sewage suspected. Formerly reported as the Ratoath Branch of the Broadmeadow.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0150	Br in Ratoath	301795	251595	43	MH

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0150	N/A	12	0	100	73	0	0	12	15	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.



River and Code : **WARD**  
 Tributary of : 08B02 BROADMEADOW  
 OS Grid Ref of Confluence: O 186 417  
 Date(s) Surveyed: 1/7/2008, 2/7/2008, 4/7/2008

08/W/01

OS Catchment No: 164

## Biological Quality Ratings (Q Values)

Station Nos.	1971	1973	1974	1977	1979	1981	1983	1985	1988	1991	1994	1996	1998	2001	2005	2007	2008
0025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
0070	-	-	-	-	-	-	-	-	3	2-3	3	2-3	2-3	3	2	2-3	2-3
0300	-	3	2	4	3	3-4	3	3	3	3	-	3	3	3	2-3	-	3
0400	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0500	-	3-4	-	-	-	3/0	3	3	3	3	-	-	-	-	-	-	-
0600	-	-	1	4	2	3/0	2-3	3	-	-	-	-	-	-	-	-	-
0610	-	-	-	-	-	-	-	-	3	3/0	-	3	3/0	3	2-3	-	3

**Assessment:** The Ward River was in a highly unsatisfactory ecological condition when surveyed in July 2008 with conditions again bordering on serious pollution at Coolatrath Bridge (0070). A slight improvement was noted at stations 0300 and 0610 however these stations remain in poor ecological condition. Excessive algal growth and heavy siltation was noted at all stations examined. Agriculture and Municipal sources suspected.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0025	(E) Br S of Priest town Ho	305668	245488	50	MH
0070	Coolatrath Br	310029	245679	50	DN
0300	Killeek Br	314521	246418	50	DN
0400	Knocksedan Br	0	0	50	
0500	Br at SW end of Swords	0	0	50	
0600	Scotchstone Br	0	0	50	
0610	Br d/s Scotchstone Br	318450	247709	50	DN

## Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0025	N/A	0	0	0	0	0	0	0	0	0	0
0070	66	17	0	100	34	0	0	0	66	0	0
0300	47	38	0	100	35	0	0	4	62	0	0
0610	9	44	0	100	33	0	0	10	58	0	0

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

**ERBD: HYDROMETRIC AREA NO. 08**

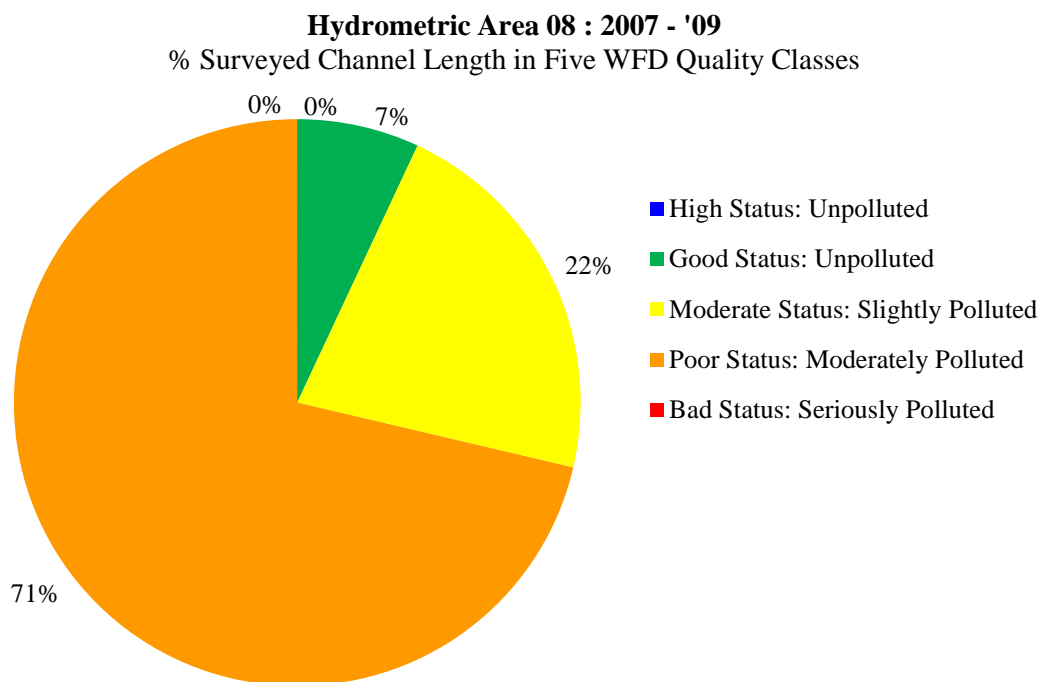
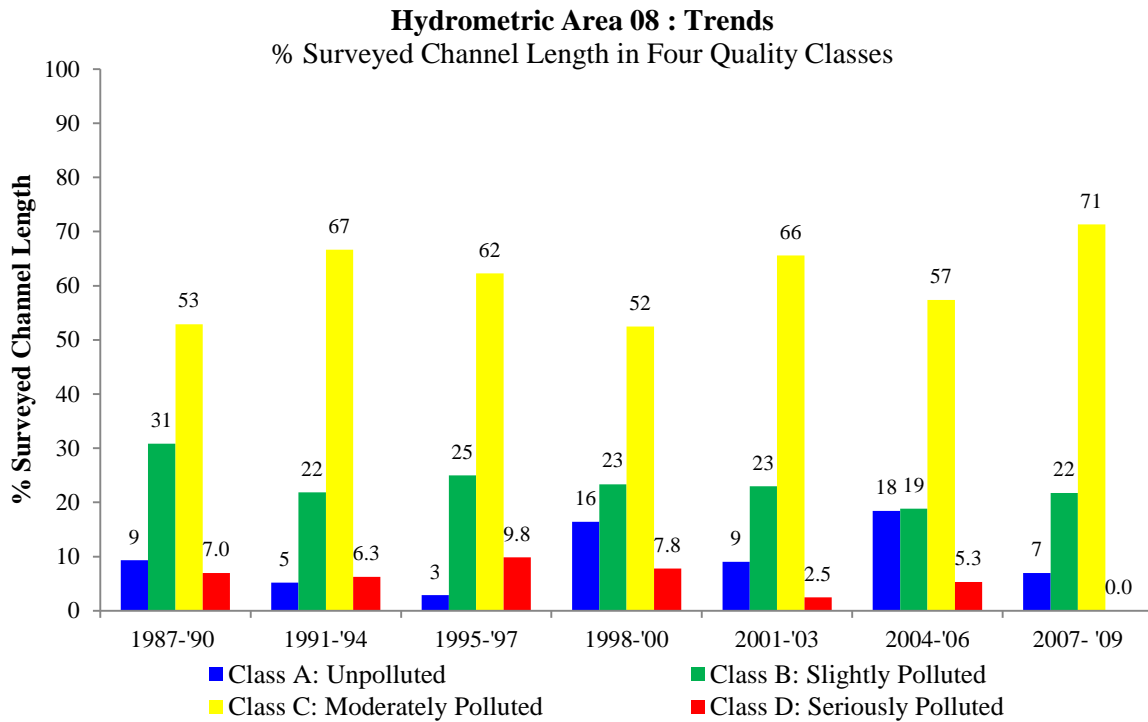
The baseline rivers showing the channel length surveyed (km) and the estimated channel length in four biological quality classes: A - Unpolluted, B - Slightly polluted/eutrophic, C - Moderately polluted and D - Seriously polluted. Data from biological surveys in period 2007-2009.

Channel Length (km) in Class			A	A	B	C	D	Total	
WFD Quality Class			High	Good	Moderate	Poor	Bad		
River Name	Year	Code							
Ballough Stream	2008	08B03	0.0	0.0	0.0	8.0	0.0	8.0	
Ballyboghil	2008	08B01	0.0	0.0	0.0	12.0	0.0	12.0	
Broadmeadow	2008	08B02	0.0	0.0	0.0	17.0	0.0	17.0	
Delvin	2008	08D01	0.0	0.0	8.0	5.5	0.0	13.5	
Dunshaughlin Stream	2008/9	08D03	0.0	0.0	0.0	1.0	0.0	1.0	
Fairyhouse Stream	2008	08F01	0.0	0.0	0.0	3.5	0.0	3.5	
Hurley	2008	08H01	0.0	2.0	12.0	3.0	0.0	17.0	
Mosney	2008	08M02	0.0	0.0	0.0	1.0	0.0	1.0	
Nanny	2008	08N01	0.0	6.5	6.5	15.0	0.0	28.0	
Ratoath Stream	2008	08R01	0.0	0.0	0.0	6.0	0.0	6.0	
Ward	2007/8	08W01	0.0	0.0	0.0	15.0	0.0	15.0	
Total Length (km) surveyed this cycle			2007-'09	0.0	8.5	26.5	87.0	0.0	122.0
Adjustments (See below)*				0.0	0.0	0.0	0.0	0.0	0.0
Percentages				0.0	7.0	21.7	71.3	0.0	100.0
Channel Length (km) in Class				A	B	C	D	Total	
Baseline: Current Adjusted Status (km)			2007 -'09	8.5	26.5	87.0	0.0	122.0	
Percentages				7.0	21.7	71.3	0.0	100.0	
Baseline: Previous Unadjusted Status (km)**			2004 -'06	22.5	23.0	70.0	6.5	122.0	
Percentages				18.4	18.9	57.4	5.3		
Changes since Previous Survey ( km )				-14.0	3.5	17.0	-6.5	0.0	

\* Adjustments: Deduct the 'extras' (+), add the 'shortages' (-).

\*\* Clabby *et al.*, 2008

<sup>1</sup> Rivers not previously included in the National Statistics



<b>HYDROMETRIC AREA 16 (Suir)</b>	
AHERLOW	16A01
ANNER	16A02
ARA	16A03
ARGLO	16A04
AUGHNAGLANNY	16A05
BALLINTEMPLE STREAM	16B07
BLACK (TWO MILE BORRIS)	16B01
BLACK STREAM (CASHEL)	16B05
BLACKWATER (KILMACOW)	16B02
# BORRISOLEIGH STREAM	16B06
BURNCOURT	16B04
CLASHAWLEY	16C01
CLODIAGH (PORTLAW)	16C03
CLODIAGH (TIPPERARY)	16C02
CLONMORE STREAM (SUIR)	16C11
CLOVER	16C04
DRISH	16D02
DUAG	16D03
FARNEYBRIDGE	16F02
FIDAGHTA	16F01
FISHMOYNE	16F03
GLASHA (WATERFORD)	16G01
GLENBOY	16G03
GLENGALLA	16G05
HALFWAY HOUSE STREAM	16H02
KILLENAULE STREAM *	16K05
LINGAUN	16L01
MOYLE	16M01
MULLINAHONE STREAM *	16M09
MULTEEN	16M02
MULTEEN (EAST) *	16M08
NIER	16N01
OUTERAGH STREAM	16O01
OWENBEG (TIPPERARY)	16O02
POLLANASSA	16P02
ROSSADREHID STREAM	16R06
ROSSESTOWN	16R01
SHANBALLY	16S01
SMARTSCASTLE STREAM	16S07
SUIR	16S02
TAR	16T01
THONOGE	16T02

# indicates rivers having seriously polluted stretches at time of this survey.

\* KILLENAULE STREAM Formerly Killenaule Branch of Clashawley River 16C01  
 \* MULLINAHONE STREAM Formerly reported as the Mullinahone Branch of the Anner  
 \* MULTEEN (EAST) Previously reported as Multeen 16M02

River and Code : **AHERLOW**  
 Tributary of : 16S02 SUIR  
 OS Grid Ref of Confluence: S 035 280  
 Date(s) Surveyed: 8/9/2008, 15/9/2008

**16/A/01**  
 OS Catchment No: 182

Station Nos.	Biological Quality Ratings (Q Values)												
	1971	1974	1976	1977	1980	1985	1988	1993	1996	1999	2002	2006	2008
0040	-	-	-	-	-	-	-	4	4	4	4	4	-
0060	-	-	-	-	-	-	4	4	-	-	-	-	-
0080	-	-	-	-	-	-	-	-	4-5	4	3-4	4	4
0100	-	-	-	-	4	4	4	4	-	-	-	-	-
0160	-	-	-	-	-	-	4	4-5	-	-	-	-	-
0200	-	-	4	-	4	4	3	4	4	4	3	3-4	4
0300	-	-	-	-	4	4	3-4	4	4	4	4	4	4
0400	-	-	5	-	5	5	4	4	-	-	-	-	-
0500	-	-	-	-	5	5	4-5	4-5	4	4	4	4	4
0600	-	-	-	-	4	4-5	4	4	4	4	3-4	3-4	-
0700	-	-	4-5	-	4	5	4	4-5	4	4	4	4	4
0800	-	-	5	-	4	4	4	4-5	4	4-5	4	4	4
0900	4	4	4-5	4	4	4-5	4-5	4	4	4	4	4	4

**Assessment:** Satisfactory at all locations representing further improvement.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0040	Ballymahony Br	179669	121974	73	LK
0060	Br E of Ballyfauskeen Crossroads	0	0	73	LK
0080	Br SW of Keeloges	179796	125045	73	LK
0100	Br SW of Ardrahin	0	0	0	LK
0160	Second Ford d/s 0100	0	0	0	LK
0200	Galbally Br	181027	127755	74	LK
0300	Stagdale Br	184343	128727	74	TY
0400	New Br	0	0	0	TY
0500	Br u/s College Br	188768	129807	74	TY
0600	College Br	191787	130328	66	TY
0700	Ashgrove Br	195110	129405	74	TY
0800	Cappa Old Br	199349	129333	74	TY
0900	Killardry Br	201667	129489	74	TY

## *Hydrometric Area 16 (2008)*

*Site Altitude and Upstream Catchment Characteristics (where available):*

<b>Site No.</b>	<b>Alt</b>	<b>Area</b>	<b>Sil</b>	<b>Cal</b>	<b>Pasture</b>	<b>Forestry</b>	<b>Bogs</b>	<b>Urban</b>	<b>Misc Ag.</b>	<b>Water</b>	<b>Other</b>
0040	150	16	100	0	77	11	3	0	0	0	9
0080	125	35	100	0	71	6	14	0	2	0	7
0200	99	58	86	14	81	4	8	0	2	0	4
0300	87	68	84	16	79	5	9	0	2	0	5
0500	71	106	82	18	70	6	14	0	1	0	9
0600	65	121	79	21	69	6	13	0	1	0	12
0700	59	149	78	22	62	8	16	0	1	0	14
0800	50	174	74	26	60	10	16	0	1	0	12
0900	47	273	56	44	69	10	11	1	1	0	8

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **ANNER**  
 Tributary of : 16S02 SUIR  
 OS Grid Ref of Confluence: S 245 238  
 Date(s) Surveyed: 28/7/2008, 29/7/2008

16/A/02  
 OS Catchment No: 182

Station Nos.	Biological Quality Ratings (Q Values)													
	1976	1977	1978	1980	1982	1985	1987	1988	1992	1996	1999	2002	2005	2008
0100	-	-	1	2	1	1	1	3	3	3	2	3	3	3
0200	-	-	-	1	-	1-2	1	3-4	-	-	-	-	-	-
0300	-	-	3	2	3	2	2	3	-	-	-	-	-	-
0340	-	-	-	-	-	-	-	3	3	3	3-4	3	3	3
0600	-	-	3-4	3-4	3-4	4	-	3-4	3-4	4	4	3-4	4	3-4
0700	-	3-4	4	3-4	3-4	4	-	3-4	4	4	4	4	4	-
0800	-	-	3-4	3	4	4	-	4	4	4	4	4	4	4
0900	-	4	3-4	4	3-4	-	-	4	4	4	4	4	4	4
1000	-	-	5	5	4-5	-	-	4-5	4	4	-	-	-	-
1100	5	-	3-4	4	4-5	-	-	4	4	4	4	4	4	4

**Assessment:** Unsatisfactory in upper half, as far as Druman Bridge, with poor and moderate ecological status. Continuing satisfactory, with good status, in lower half.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Drangan Br	228326	140958	67	TY
0200	Br 1.3 km d/s Drangan	0	0	0	TY
0300	Br SW of Ballinacloghy	0	0	0	TY
0340	Ballycullin Br	233022	137330	67	TY
0600	Druman Br	231423	135470	67	TY
0700	Melbourne Br	226759	135186	67	TY
0800	Br SW of Killusty North	224621	131759	67	TY
0900	Thorny Br	224763	128072	75	TY
1000	Br (Ford) W of Ballynevin	225137	125454	75	TY
1100	Anner Br	224448	123239	75	TY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	95	17	0	100	97	0	0	0	3	0	0
0340	58	50	0	100	92	0	0	0	8	0	0
0600	51	81	12	88	88	3	0	0	6	0	2
0700	42	123	16	84	82	5	3	0	8	0	2
0800	34	140	18	82	80	4	5	0	8	0	2
0900	25	322	9	91	79	3	3	1	13	0	1
1000	18	439	9	91	76	3	4	0	16	0	1
1100	13	445	9	91	75	3	4	1	16	0	1

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **ARA**  
 Tributary of : 16A01 AHERLOW  
 OS Grid Ref of Confluence: S 002 296  
 Date(s) Surveyed: 21/8/2008, 22/8/2008

**16/A/03**  
 OS Catchment No: 182

Station Nos.	Biological Quality Ratings (Q Values)													
	1971	1974	1976	1979	1981	1983	1985	1988	1992	1996	1999	2003	2006	2008
0100	-	-	-	-	-	-	-	3-4	3	3	3	3-4	3-4	3
0200	-	4-5	4	3-4	3-4	3-4	3-4	3-4	3-4	3	3-4	3-4	4	-
0300	2	1	1	1	3	3	2-3	3	3	3	1-2	3	3	3
0400	1	1	1	1	3	3	3	3	3	-	-	-	-	-
0440	-	-	-	-	-	-	-	3	3-4	3	3	3-4	4	3-4
0500	-	-	-	3-4	3-4	3-4	4	3	3-4	3-4	3	3-4	3-4	-
0600	2	3	3-4	3-4	3-4	3-4	4	3-4	3	3-4	3	3	3-4	4
0700	-	-	-	4	4	4	4	4	3-4	3-4	3-4	3-4	3-4	-

**Assessment:** Satisfactory at just one location. Unsatisfactory, with poor and moderate ecological quality, above, in and below Tipperary town.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bohereenbuee Br	184792	134548	66	TY
0200	Br just u/s Tipperary	188215	135268	66	TY
0300	1 km d/s Tipperary nr Railway Br	189740	135160	66	TY
0400	Br nr Cordangan Manor	0	0	0	TY
0440	Br NE of Lacken	192434	133849	66	TY
0500	Bansha Br	195556	133145	66	TY
0600	Ara Br, 2.8 km d/s Bansha	197459	131994	66	TY
0700	Ara Br, u/s Aherlow R confl	199233	130224	66	TY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	103	31	13	87	99	0	1	0	0	0	0
0200	89	42	10	90	98	0	1	1	0	0	0
0300	83	44	9	91	95	0	1	4	0	0	0
0440	73	69	14	86	88	6	0	3	1	0	1
0500	61	75	19	81	87	8	0	3	1	0	1
0600	56	84	19	81	87	7	0	3	1	0	1
0700	52	87	19	81	87	6	0	3	2	0	1

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.



River and Code : **ARGLO**  
 Tributary of : 16S02 SUIR  
 OS Grid Ref of Confluence: S 047 435  
 Date(s) Surveyed: 2/9/2008

**16/A/04**  
 OS Catchment No: 182

Station Nos.	Biological Quality Ratings (Q Values)									
	1976	1980	1985	1988	1992	1996	1999	2002	2005	2008
0080	-	-	-	4	-	-	-	-	-	-
0100	-	3-4	3-4	4	4	3-4	4	3-4	3-4	3-4
0200	4-5	4	3-4	4	4	4	4	3-4	3-4	3-4

**Assessment:** No change. Continuing with only moderate ecological quality at both locations.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0080	Br nr Erry Ho	0	0	0	TY
0100	Grange Br	210350	145665	66	TY
0200	Arglo Br	206372	144203	66	TY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	102	25	0	100	77	3	0	0	15	0	4
0200	77	40	0	100	78	2	0	0	18	0	3

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **AUGHNAGLANNY**

**16/A/05**

Tributary of : 16M02 MULTEEN

OS Catchment No: 182

OS Grid Ref of Confluence: R 994 470

Date(s) Surveyed: 19/9/2008

Station Nos.	Biological Quality Ratings (Q Values)									
	1977	1980	1985	1988	1992	1996	1999	2003	2006	2008
0100	4-5	5	5	4-5	4-5	4	4-5	4-5	4-5	4-5

**Assessment:** Continuing satisfactory with high ecological quality again recorded despite the scouring effects of severe flooding.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Victoria Br	199031	148463	66	TY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	98	13	100	0	67	23	0	0	10	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BALLINTEMPLE STREAM**

**16/B/07**

Tributary of : 16C01 CLASHAWLEY

OS Catchment No: 182

OS Grid Ref of Confluence: S 188 372

Date(s) Surveyed: 31/7/2008

Station Nos.	Biological Quality Ratings (Q Values)					
	1994	1996	1999	2002	2005	2008
0800	4	4	4	4	3-4	4

**Assessment:** Reversion to good ecological status since previous survey.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0800	Br N of Coolmoyne Crossroads	216579	138440	66	TY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0800	94	17	0	100	79	0	0	0	21	0	0

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BLACK (TWO MILE BORRIS)**

**16/B/01**

Tributary of : 16D02 DRISH

OS Catchment No: 182

OS Grid Ref of Confluence: S 192 592

Date(s) Surveyed: 29/8/2008

Station Nos.	Biological Quality Ratings (Q Values)									
	1980	1982	1985	1988	1992	1996	1999	2002	2005	2008
0030	-	-	-	-	-	3-4	3-4	3	3	3-4
0090	-	-	-	4	4	4	3-4	3	3-4	-
0100	3	3-4	3	4	4	4	4	4	4	3-4
0200	-	-	-	4	4	-	-	-	-	-

**Assessment:** Only moderate ecological quality at both locations.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0030	Black River Br	221473	152924	67	TY
0090	Newhill Br	219629	155933	66	TY
0100	Br W of Twomileborris	219231	157870	66	TY
0200	Just u/s Drish R confl	0	0	0	TY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0030	124	3	0	100	42	0	18	0	5	0	35
0090	116	27	0	100	50	2	26	0	3	0	18
0100	113	31	0	100	53	2	23	0	6	0	16

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BLACK STREAM (CASHEL)**

**16/B/05**

Tributary of : 16S02 SUIR

OS Catchment No: 182

OS Grid Ref of Confluence: S 038 408

Date(s) Surveyed: 19/9/2008

Station Nos.							Biological Quality Ratings (Q Values)				
	1978	1980	1985	1986	1988	1989	1993	1999	2002	2006	2008
0100	1-2	2	2	3	2	2-3	3	2-3	2-3	2-3	3

**Assessment:** Continuing moderately polluted with poor ecological status again recorded.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br 0.5 km u/s Suir R confl	204523	141143	66	TY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	66	9	0	100	77	0	0	0	23	0	0

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BLACKWATER (KILMACOW)**

**16/B/02**

Tributary of : 16S02 SUIR

OS Catchment No: 182

OS Grid Ref of Confluence: S 586 141

Date(s) Surveyed: 1/7/2008, 2/7/2008

Station Nos.	Biological Quality Ratings (Q Values)									
	1976	1981	1985	1988	1992	1996	1999	2002	2005	2008
0060	-	-	-	4	4	4	4	3	4	-
0080	-	-	-	4	4	4	4	4	3-4	4
0100	-	5	3-4	4	4	-	-	-	-	-
0200	-	4	4	4	4-5	4-5	4	4	4	-
0300	4	5	3-4	3	3-4	4	4	4	4	4
0400	-	5	4-5	4	4	-	-	-	-	-
0450	-	-	-	4	4	4	3-4	4	3-4	3-4

**Assessment:** Satisfactory except for downstream of Kilmacow (0450) where again only moderate status.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0060	Lukeswell Br	255356	127445	76	KK
0080	Br to W of Mullinavat	256266	124240	76	KK
0100	Br S of Mullinavat (on Trib)	0	0	0	TY
0200	W of Scart	256296	122517	76	KK
0300	Dangan Br	256994	120101	76	KK
0400	Foot-bridge at Kilmacow	0	0	76	TY
0450	Br SE of Kilmacow	256983	117148	76	KK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0060	79	20	100	0	57	31	1	0	2	0	10
0080	57	37	100	0	70	17	0	0	5	0	8
0200	45	106	100	0	72	12	4	0	5	0	7
0300	31	110	99	1	72	12	4	0	6	0	6
0450	8	123	90	10	74	11	3	0	6	0	6

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BORRISOLEIGH STREAM**

**16/B/06**

Tributary of : 16F03 FISHMOYNE

OS Catchment No: 182

OS Grid Ref of Confluence: S 042 639

Date(s) Surveyed: 3/9/2008

Station Nos.	Biological Quality Ratings (Q Values)									
	1980	1981	1988	1992	1996	1999	2003	2006	2007	2008
0200	-	-	-	-	4	4	4	4	-	4
0400	-	-	4	4	4	4	4	3-4	-	-
0600	3	4	3	2-3	2-3	3	3	2	2	2
0700	-	-	3-4	3	3	3	3-4	3	-	-

**Assessment:** No change with serious pollution, bad quality, downstream of Borrisoleigh and good ecological quality near Ballyduff.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br NE of Ballyduff	198737	166942	59	TY
0400	Ballyroan Br	202057	167348	59	TY
0600	Br 0.5 km SE of Borrisoleigh	203439	166401	59	TY
0700	Br u/s Fishmoyne R confl	204086	164008	59	TY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	168	4	100	0	69	0	0	0	31	0	0
0400	110	11	100	0	74	0	0	0	26	0	0
0600	97	14	93	7	77	0	0	2	20	0	0
0700	86	25	71	29	83	0	0	2	15	0	0

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BURNCOURT**  
 Tributary of : 16S01 SHANBALLY  
 OS Grid Ref of Confluence: R 974 177  
 Date(s) Surveyed: 7/8/2008

**16/B/04**  
 OS Catchment No: 182

Station Nos.	Biological Quality Ratings (Q Values)						
	1988	1992	1996	1999	2002	2006	2008
0100	4-5	4-5	5	4-5	4	4-5	-
0300	4-5	4-5	4-5	4	4-5	4-5	4-5

**Assessment:** Continuing satisfactory with high ecological status again recorded.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Glengarra Br	193130	118732	74	TY
0300	Burncourt Old Br	195409	118024	74	TY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	104	14	100	0	0	24	41	0	2	0	32
0300	72	22	86	14	17	18	41	0	2	0	22

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.



**Hydrometric Area 16 (2008)**

River and Code : **CLASHAWLEY**

**16/C/01**

Tributary of : 16A02 ANNER

OS Catchment No: 182

OS Grid Ref of Confluence: S 246 303

Date(s) Surveyed: 30/7/2008, 31/7/2008

Station Nos.	Biological Quality Ratings (Q Values)											
	1976	1978	1980	1981	1983	1988	1992	1996	1999	2002	2005	2008
0030	-	-	-	-	-	4	3	-	-	-	-	-
0050	-	-	-	-	-	4	4	3-4	4	4	4	4
0080	-	-	-	-	-	4	4	4	3-4	3	3-4	-
0350	-	-	-	-	-	4	3-4	-	-	-	-	-
0400	4	4-5	-	4	4	3-4	4	4	4	4	4	4
0440	-	-	-	-	-	3-4	3-4	-	-	-	-	-
0470	-	-	-	-	-	2-3	3	3	2-3	2-3	3-4	-
0500	2	1	3-4	4	4	4	3-4	-	-	-	-	3-4
0600	-	4-5	-	5	4	4	4	4	4	4	4	4

**Assessment:** Satisfactory apart from downstream of Fethard where ecological status was only Moderate.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0030	Br S of Laffansbridge	0	0	0	TY
0050	Br SW of Cathaganstown	218973	142826	66	TY
0080	Br NE of Farranaleen	219320	139741	66	TY
0350	Cramps Br, Fethard	0	0	0	TY
0400	Br at Ballybough	219910	136245	66	TY
0440	In Fethard, u/s Killenaule Branch	0	0	0	TY
0470	1 km d/s Killenaule Branch	221671	134671	67	TY
0500	Br 2 km SE of Fethard	222642	133960	0	TY
0600	Loughcapple Br	223868	131074	67	TY

**Site Altitude and Upstream Catchment Characteristics (where available):**

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	103	32	0	100	81	1	7	1	10	0	0
0080	86	42	0	100	85	1	5	1	8	0	0
0400	67	93	0	100	79	0	2	1	17	0	0
0470	52	156	0	100	82	1	1	1	14	0	0
0600	35	167	0	100	81	1	1	1	15	0	0

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CLODIAGH (PORTLAW)**

**16/C/03**

Tributary of : 16S02 SUIR

OS Catchment No: 182

OS Grid Ref of Confluence: S 487 156

Date(s) Surveyed: 2/7/2008, 3/7/2008

Station Nos.	Biological Quality Ratings (Q Values)														
	1971	1975	1978	1980	1982	1984	1986	1988	1993	1996	1999	2002	2005	2007	2008
0040	-	-	-	-	-	-	-	4	4	4	4-5	4	4	-	3-4
0100	-	-	5	-	-	-	4-5	4-5	3	3-4	4-5	4	-	-	-
0200	-	-	5	-	-	-	4-5	4-5	4-5	4-5	4	4-5	4	-	4
0300	5	5	5	-	-	5	4-5	4	4	3-4	3	3	2	4	3
0350	-	-	-	-	-	-	-	4-5	4-5	-	-	-	-	-	-
0400	-	5	5	-	-	5	3-4	4-5	4-5	4-5	3-4	4	4	-	4
0500	5	5	5	5	-	5	4	4	4	-	-	-	-	-	-
0600	1	1/0	1/0	1/0	1/0	1	2-3	2-3	3	-	-	-	-	-	-
0700	-	2-3	4-5	3	3-4	3-4	4-5	4	4-5	-	-	-	-	-	-
0750	-	-	-	-	-	-	-	-	-	4-5	4	4-5	4	-	4

**Assessment:** Mostly satisfactory but continuing polluted at Clonea due to sewage discharge and only moderate status at first location as a result of suspected intermittent agricultural run-off.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0040	Grogavalla br	232211	116370	75	WD
0100	Shanakill Br	234401	115950	75	WD
0200	Lackan Br	235232	113692	75	WD
0300	Clonea Br	238452	114185	75	WD
0350	Br S of Glenstown	0	0	0	WD
0400	Lowry Br	242123	114873	75	WD
0500	2.5 km u/s Portlaw	0	0	0	WD
0600	Portlaw Br (LHS)	0	0	0	WD
0700	Portlaw Br (RHS)	0	0	0	WD
0750	Just d/s Portlaw Br	246785	115025	75	WD

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0040	118	20	100	0	61	15	9	0	0	0	14
0100	95	23	100	0	68	12	8	0	0	0	12
0200	72	43	100	0	68	7	9	0	5	0	10
0300	51	66	100	0	62	6	10	0	5	1	16
0400	35	103	100	0	67	6	7	0	10	0	10
0750	5	129	100	0	63	10	5	0	13	0	9

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CLODIAGH (TIPPERARY)**

**16/C/02**

Tributary of : 16S02 SUIR

OS Catchment No: 182

OS Grid Ref of Confluence: S 063 503

Date(s) Surveyed: 4/9/2008, 5/9/2008

Station Nos.	Biological Quality Ratings (Q Values)									
	1976	1980	1986	1988	1992	1996	1999	2003	2006	2008
0040	-	-	-	5	4	4	4	4-5	4-5	4-5
0070	-	-	-	4-5	4-5	-	-	-	-	-
0080	-	-	-	-	-	5	4-5	4-5	4-5	4
0100	-	5	4-5	4-5	4	-	-	-	-	-
0200	-	-	-	4-5	4	4-5	4	4	3-4	3-4
0300	5	5	4-5	4-5	4	-	-	-	-	-
0400	5	5	4	4	4	3-4	4	4	4	-
0500	-	-	-	4-5	4-5	-	-	4	-	-
0600	5	5	4-5	4-5	4	4	4	4	4	4

**Assessment:** No change. Mostly satisfactory but again only moderate ecological quality recorded at Drumminagleagh Bridge.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0040	Gorteenabarna Br	198173	165027	59	TY
0070	Br W of Rathcardan	0	0	0	TY
0080	Pallas Br	202241	163820	59	TY
0100	Annfield Br	0	0	0	TY
0200	Drumminagleagh Br	204512	159766	66	TY
0300	Ballyoughter Br	0	0	0	TY
0400	Derrymore Br	205008	154453	66	TY
0500	Rathkennan Br	0	0	0	TY
0600	1.5 km d/s Rathkennan Br	204862	151371	66	TY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0040	154	27	100	0	75	2	10	0	5	0	8
0080	102	36	100	0	80	1	7	0	5	0	6
0200	84	121	65	34	83	2	2	0	10	0	3
0400	76	189	66	34	85	2	1	0	8	0	3
0600	73	252	49	51	86	2	1	0	9	0	3

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CLONMORE STREAM (SUIR)** **16/C/11**  
 Tributary of : 16S02 SUIR OS Catchment No: 182  
 OS Grid Ref of Confluence: S 139 740  
 Date(s) Surveyed: 3/9/2008

Station Nos.	Biological Quality Ratings (Q Values)			
	1999	2002	2005	2008
1000	3	4	3-4	3

**Assessment:** Further deterioration since previous survey with poor ecological quality.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
1000	Br u/s Suir R confl	214653	174023	60	TY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
1000	110	34	0	100	70	5	8	1	10	0	6

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CLOVER** **16/C/04**  
 Tributary of : 16B01 BLACK (TWOMILEBORRIS) OS Catchment No: 182  
 OS Grid Ref of Confluence: S 192 592  
 Date(s) Surveyed: 29/8/2008

Station Nos.	Biological Quality Ratings (Q Values)									
	1988	1989	1990	1992	1994	1996	1999	2002	2005	2008
0100	2	2	1-2	2	2	1	2-3	3	3	-
0300	3-4	-	-	3-4	-	2-3	4	4	4	4

**Assessment:** Satisfactory, with good ecological quality, at the only location sampled.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br at Turnpike	221408	157590	67	TY
0300	Br u/s Black R confl	219663	159265	66	TY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	119	8	0	100	24	14	49	0	8	0	5
0300	111	18	0	100	39	11	37	0	10	0	3

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DRISH**  
 Tributary of : 16S02 SUIR  
 OS Grid Ref of Confluence: S 130 565  
 Date(s) Surveyed: 1/9/2008

**16/D/02**  
 OS Catchment No: 182

Station Nos.	Biological Quality Ratings (Q Values)									
	1976	1980	1983	1988	1992	1996	1999	2002	2005	2008
0040	-	-	-	-	-	3-4	3-4	3-4	3	3
0050	-	-	-	3-4	-	-	-	-	-	-
0070	-	-	-	4	4-5	3-4	2/0	2-3/0	3/0	3/0
0100	4-5	4	4	4-5	4	4	3-4	3	3	3
0200	-	3	4	4	4	4	4	3-4	3-4	3
0300	4-5	4	4	4	4	-	-	-	-	-
0400	-	4	4	4	4	4	4	4	3-4	3

**Assessment:** Unsatisfactory throughout with poor ecological quality and toxic influences inferred at one of the locations (0070). Deterioration since previous survey.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0040	2nd Br u/s Longfordpass Br	225179	159894	67	TY
0050	Longfordpass Br	0	0	0	TY
0070	Castletown Br	221729	163525	60	TY
0100	Boolabeha Br	219086	161952	60	TY
0200	Br S of Athlummon	217645	159416	66	TY
0300	Drish Br	0	0	0	TY
0400	Br u/s Suir R confl	213693	157096	66	TY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0040	122	26	0	100	65	13	3	0	14	0	4
0070	116	52	0	100	58	10	14	0	11	0	7
0100	112	69	0	100	58	8	16	1	10	0	7
0200	104	135	0	100	57	6	21	0	9	0	7
0400	95	205	0	100	62	5	17	0	11	0	6

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DUAG**  
 Tributary of : 16T01 TAR  
 OS Grid Ref of Confluence: S 014 145  
 Date(s) Surveyed: 6/8/2008

**16/D/03**  
 OS Catchment No: 182

Station Nos.	Biological Quality Ratings (Q Values)						
	1988	1992	1996	1999	2002	2006	2008
0100	4	4	4	4	4-5	4	4
0300	3	3-4	-	-	-	-	-
0400	-	-	4	4	4	4	4
0600	3-4	4	-	-	-	-	-
1100	4-5	4-5	4	3-4	3-4	4	4

**Assessment:** Continuing satisfactory, with good ecological quality, at the three locations.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br u/s Ballyporeen	191954	112644	74	TY
0300	Ford ESE of Ballyporeen	0	0	0	TY
0400	Br 2 km d/s Ballyporeen	195133	113029	74	TY
0600	Ford S of Carrigmore Crossroads	0	0	0	TY
1100	Br at S end of Clogheen	200375	113616	74	TY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	89	16	54	46	90	2	0	0	2	0	6
0400	71	38	57	43	78	6	3	1	2	0	11
1100	50	66	65	35	58	13	17	1	1	0	11

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **FARNEYBRIDGE**

**16/F/02**

Tributary of : 16C02 CLODIAGH (TIPPERARY)

OS Catchment No: 182

OS Grid Ref of Confluence: S 054 543

Date(s) Surveyed: 4/9/2008

Station Nos.	Biological Quality Ratings (Q Values)							
	1988	1989	1992	1996	1999	2003	2006	2008
0100	3-4	-	3-4	-	-	-	-	-
0200	2	2-3	3	3	3	3	3	3
0300	2-3	3	3	-	-	-	-	-
0500	3	-	3	3	3	3	3-4	3
0600	3	-	4	4	4	4	3-4	-
0700	3-4	-	4	4	4	4-5	4-5	4

**Assessment:** Again only one location satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br E of Ballypatrick	207140	164835	0	TY
0200	Br ENE of The Rag	206715	163105	59	WD
0300	Br SE of The Rag	207215	161800	0	TY
0500	Ballynahow Br	208602	159682	66	TY
0600	Farney Br	206679	157893	66	TY
0700	Just u/s Clodiagh R confl	205460	154326	66	TY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	95	9	0	100	75	0	0	0	25	0	0
0500	85	23	0	100	83	2	0	0	13	0	2
0600	78	45	0	100	88	1	0	0	10	0	2
0700	75	53	0	100	86	1	0	0	11	0	1

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.



River and Code : **FIDAGHTA**  
 Tributary of : 16S02 SUIR  
 OS Grid Ref of Confluence: S 013 314  
 Date(s) Surveyed: 19/8/2008

**16/F/01**  
 OS Catchment No: 182

Station Nos.	Biological Quality Ratings (Q Values)										
	1976	1977	1981	1985	1988	1992	1996	1999	2003	2006	2008
0100	-	-	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4
0200	-	3-4	4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	-
0300	4-5	-	3-4	4	4	3	3	4	4	3-4	3-4

**Assessment:** Continuing unsatisfactory with only moderate ecological status at both locations.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br nr Aughnagawer X Rds	195733	135009	66	TY
0200	Fidaghta Br	198492	133344	66	TY
0300	Kilnacask Br	200736	131700	66	TY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	66	23	0	100	94	0	0	3	3	0	0
0200	56	46	1	99	90	0	0	1	8	0	0
0300	51	50	1	99	90	0	0	1	8	0	0

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **FISHMOYNE**

**16/F/03**

Tributary of : 16C02 CLODIAGH (TIPPERARY)

OS Catchment No: 182

OS Grid Ref of Confluence: S 043 638

Date(s) Surveyed: 3/9/2008

Station Nos.	1988	1992	1996	1999	Biological Quality Ratings (Q Values)		
					2003	2006	2008
0040	-	-	3	3	3-4	3	3
0080	4	4	-	-	-	-	-
0200	4	4	4	4	4	4	-
0300	4	3-4	3-4	4	4	3-4	3

**Assessment:** Unsatisfactory with poor quality at both locations. Arterial drainage in lower reach has seriously compromised ecological potential.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0040	Br NW of Drom	206082	169044	59	TY
0080	Br SE of Kilfithmone Crossroads	0	0	0	TY
0200	Rathmoy Br	204815	165661	59	TY
0300	Monroe Br	205071	162559	59	TY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0040	109	13	51	49	84	12	0	0	1	0	3
0200	92	36	45	55	85	5	0	0	7	0	3
0300	85	66	51	49	83	2	0	1	13	0	2

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **GLASHA (WATERFORD)**

**16/G/01**

Tributary of : 16S02 SUIR

OS Catchment No: 182

OS Grid Ref of Confluence: S 298 232

Date(s) Surveyed: 3/7/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1988	1992	1996	1999	2003	2006	2008
0200	-	-	4-5	4-5	4-5	4-5	-
0300	4-5	4-5	-	-	-	-	-
0400	4-5	4-5	4-5	4	4-5	4-5	4-5

**Assessment:** Continuing satisfactory with high ecological status again recorded.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Boola Br	227654	119980	75	WD
0300	Glenpatrick Br	0	0	0	WD
0400	Glen Br	230312	122670	75	WD

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	204	5	100	0	2	13	49	0	0	0	35
0400	25	17	100	0	19	39	25	0	2	0	15

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

**Hydrometric Area 16 (2008)**

River and Code : **GLENBOY** **16/G/03**  
 Tributary of : 16T01 TAR OS Catchment No: 182  
 OS Grid Ref of Confluence: S 113 139  
 Date(s) Surveyed: 5/8/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1988	1992	1996	1999	2002	2006	2008
0200	4-5	4-5	4-5	4-5	4	4-5	4

**Assessment:** Continuing satisfactory but with drop in ecological quality compared with previous assessments.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Glenboy Br	211635	113607	74	TY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	35	9	89	11	16	8	27	0	17	0	31

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **GLENGALLA**  
 Tributary of : 16T01 TAR  
 OS Grid Ref of Confluence: S 071 138  
 Date(s) Surveyed: 5/8/2008

**16/G/05**  
 OS Catchment No: 182

Station Nos.	Biological Quality Ratings (Q Values)						
	1988	1992	1996	1999	2002	2006	2008
0100	5	5	4-5	5	4-5	4-5	4

**Assessment:** Continuing satisfactory but with drop in ecological quality compared with previous assessments.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Glengalla Br	207215	112962	74	TY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	49	13	100	0	1	36	53	0	0	0	11

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **HALFWAY HOUSE STREAM**

**16/H/02**

Tributary of : Suir Estuary

OS Catchment No: 184

OS Grid Ref of Confluence: S 659 099

Date(s) Surveyed: 30/6/2008

Station Nos.	Biological Quality Ratings (Q Values)					
	1993	1996	1999	2003	2006	2008
0200	3	3	3-4	3-4	3-4	-
0300	3	3	3	2	3-4	3-4

**Assessment:** Continuing unsatisfactory with moderate status where previously poor and bad.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br SW of Foxmount	265939	108586	76	WD
0300	Br to NW of Halfway Ho	266003	109661	76	WD

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	22	6	100	0	69	0	0	0	21	0	10
0300	8	8	100	0	70	0	0	0	22	0	8

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **KILLENAULE STREAM**

**16/K/05**

Tributary of : 16C01 CLASHAWLEY

OS Catchment No: 182

OS Grid Ref of Confluence:

Date(s) Surveyed: 30/7/2008

*Formerly Killenaule Branch of Clashawley River 16C01*

Station Nos.	Biological Quality Ratings (Q Values)									
	1978	1980	1981	1983	1988	1992	1996	1999	2005	2008
0100	3	2	2-3	3	3	2-3	3	2-3	3	3
0150	-	-	-	-	4	3-4	-	-	-	-
0200	4-5	-	4-5	4	4-5	4	3-4	4	4	3-4*
0300	3-4	-	5	4-5	4	4	3-4	4	4	4

**Assessment:** Continuing moderately polluted downstream of Killenaule. Satisfactory at the final location (0300) but some deterioration at middle one (0200) as a result of in-stream clearance work.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br 1 km S of Killenaule	222617	145407	67	TY
0150	Br W of Kilkennybeg	0	0	0	TY
0200	Br nr St Johnston Castle	222969	141463	67	TY
0300	Saucestown Bridge	222050	136385	67	TY

River and Code : **LINGAUN**  
 Tributary of : 16S02 SUIR  
 OS Grid Ref of Confluence: S 428 216  
 Date(s) Surveyed: 17/7/2008

**16/L/01**  
 OS Catchment No: 182

Station Nos.	1976	1977	1981	1985	1988	1992	Biological Quality Ratings (Q Values)				
							1996	1999	2002	2005	2008
0050	-	-	-	-	-	-	4-5	4	4	3-4	4
0100	-	-	5	4-5	4-5	4	-	-	-	-	-
0200	-	-	5	4-5	4-5	4-5	4	3-4	4	4	4
0300	-	-	4-5	4-5	4-5	4-5	4	4	4	4	4
0400	-	5	5	5	4-5	4-5	4-5	4	4	4	4
0450	-	-	5	5	-	-	-	-	-	-	-
0500	-	-	-	-	5	4-5	-	-	-	-	-
0600	5	5	5	4	4	4	4	4	4	3-4	4

**Assessment:** Satisfactory with good quality recorded at all locations.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Br u/s Whitehall Br	234106	132327	67	TY
0100	Whitehall Br	235107	132537	67	TY
0200	Lingaun Br	236496	131073	67	TY
0300	Br at Inchanaglogh	241367	130868	67	KK
0400	Scogh Br	241499	126917	75	KK
0450	0.5 km d/s Cregg Br	0	0	0	KK
0500	1 km d/s Cregg Br	0	0	0	KK
0600	The Tree Bridges	242212	122522	75	KK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	166	10	100	0	59	6	25	0	10	0	0
0100	150	15	100	0	65	7	17	0	11	0	0
0200	127	23	100	0	73	5	11	0	10	0	1
0300	77	54	100	0	77	2	5	0	14	0	2
0400	28	71	100	0	77	3	4	0	14	0	2
0600	3	89	84	16	72	4	3	0	18	0	3

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.



*Hydrometric Area 16 (2008)*

River and Code : **MOYLE**  
 Tributary of : 16A02 ANNER  
 OS Grid Ref of Confluence: S 248 275  
 Date(s) Surveyed: 29/7/2008

**16/M/01**  
 OS Catchment No: 182

Station Nos.							Biological Quality Ratings (Q Values)				
	1981	1983	1986	1988	1992	1994	1996	1999	2002	2005	2008
0025	-	-	4	3-4	3-4	-	-	-	-	-	-
0050	3-4	2	2	1	1	1	2-3	2	3	-	3
0100	2	2	-	1	1	1	-	-	-	-	-
0200	-	-	-	1	3	-	3	-	3	-	dry
0250	-	3-4	3-4	2-3	3	-	-	-	-	-	-
0270	-	-	-	-	-	-	3	3	3	3	-
0300	4-5	4	4	3	3-4	-	-	-	-	-	-
0400	4-5	4	4	3-4	3-4	-	3-4	3	3-4	3	3

**Assessment:** Poor ecological quality where sampled.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0025	Tullamain Bridge	0	0	0	TY
0050	Br NW of Mocklerstown	214552	131915	66	TY
0100	Moyle Br	0	0	0	TY
0200	Ballinavoher Br	218626	129686	74	TY
0250	Albert Br	0	0	0	TY
0270	Baptistgrange Br	221447	129956	75	TY
0300	Br W of Annsfort	0	0	0	TY
0400	Br u/s Anner R confl	224383	128027	75	TY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	83	30	0	100	75	0	0	0	24	0	0
0200	71	45	0	100	77	0	0	0	23	0	0
0270	48	58	0	100	76	0	0	0	24	0	0
0400	27	63	0	100	75	0	0	0	24	0	0

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **MULLINAHONE STREAM**

**16/M/09**

Tributary of : 16A02 ANNER

OS Catchment No:

OS Grid Ref of Confluence:

Date(s) Surveyed: 28/7/2008

*Formerly reported as the Mullinahone Branch of the Anner*

Station Nos.	Biological Quality Ratings (Q Values)												
	1977	1978	1980	1982	1985	1987	1988	1992	1996	1999	2002	2005	2008
0400	-	3	3	3	2-3	3	2	2-3	-	-	-	-	-
0500	1	1-2	2	3	2	2	2-3	2-3	3	3	2-3	2-3	3

**Assessment:** Formerly Mullinahone Branch of Anner River. Continuing with poor ecological quality at the only location examined which is downstream of Mullinahone.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0400	Br in Mullinahone	0	0	0	TY
0500	Br nr Beeverstown	233482	138898	0	TY

River and Code : **MULTEEN**  
 Tributary of : 16S02 SUIR  
 OS Grid Ref of Confluence: S 007 395  
 Date(s) Surveyed: 18/9/2008

**16/M/02**  
 OS Catchment No: 182

Station Nos.	Biological Quality Ratings (Q Values)									
	1976	1980	1985	1988	1992	1996	1999	2003	2006	2008
0540	-	-	-	4	4	3-4	4	4	4	-
0600	-	-	-	-	-	3-4	4	4	4	4
0650	-	-	-	4-5	4-5	-	-	-	-	-
0700	-	5	5	4-5	4-5	-	-	-	-	-
0780	-	-	-	-	-	4	4-5	4-5	4-5	-
0800	5	5	5	4-5	5	-	-	-	-	-
0900	-	5	-	5	4	4-5	4-5	4-5	4	4
1000	4-5	4	-	4	4	4	4	4	4	4
1100	5	4	-	4	4	4	4	4	4	4

**Assessment:** Continuing satisfactory with good ecological quality at all sites.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0540	Metal Br	191884	153031	66	TY
0600	1 km S of Inchinsquillib	191291	149635	66	TY
0650	Br just u/s Glasheenreagha R conf	0	0	0	TY
0700	Ironmills Br	0	0	0	TY
0780	Br SW of Annacarty	191814	145111	66	TY
0800	Hawarden Br	0	0	0	TY
0900	Morpeth Br	194074	141705	66	TY
1000	Ballinacloagh Br	198561	140864	66	TY
1100	Ballygriffin Br	200582	140392	66	TY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0540	178	18	100	0	66	7	2	0	5	0	21
0600	138	26	100	0	66	9	2	0	7	0	16
0780	103	46	100	0	59	14	4	0	14	0	9
0900	82	60	96	4	67	12	3	0	12	0	7
1000	69	76	81	19	73	10	2	0	10	0	5
1100	63	162	75	25	71	10	2	0	12	0	4

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **MULTEEN (EAST)**

**16/M/08**

Tributary of : 16M02 MULTEEN

OS Catchment No: 182

OS Grid Ref of Confluence:

Date(s) Surveyed: 19/9/2008

*Previously reported as Multeen 16M02*

Station Nos.	Biological Quality Ratings (Q Values)									
	1976	1980	1985	1988	1992	1996	1999	2003	2006	2008
0300	-	5	4-5	5	4-5	4	3-4	4	4	4-5
0500	5	5	5	4-5	4-5	4	4	4	4	4

**Assessment:** Continuing satisfactory with high and good ecological quality.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Clonedarby Br	200142	149225	66	TY
0500	Aughnagross Br	199098	141307	66	TY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	95	34	100	0	51	6	4	0	33	0	6
0500	70	84	71	29	69	11	2	1	15	0	3

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **NIER**  
 Tributary of : 16S02 SUIR  
 OS Grid Ref of Confluence: S 147 139  
 Date(s) Surveyed: 18/7/2008

**16/N/01**  
 OS Catchment No: 182

Station Nos.	Biological Quality Ratings (Q Values)								
	1976	1983	1988	1992	1996	1999	2002	2006	2008
0010	-	-	-	-	4-5	4	4-5	4-5	4-5
0030	-	-	4	4-5	-	-	-	-	-
0070	-	-	5	5	4	4	4-5	-	-
0100	-	4-5	4-5	4-5	-	-	-	-	4-5
0200	-	-	4-5	4-5	4	4	4	4	-
0300	-	4-5	4-5	5	-	-	-	-	-
0400	5	5	4-5	4-5	4-5	4	4	4	4

**Assessment:** Satisfactory at all three locations with high status at two.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0010	Labatt's Br	224995	113971	75	WD
0030	Birchell's Br	0	0	0	WD
0070	Knockalisheen Br	221406	113499	75	WD
0100	Br ENE of Ballymacarbry	219897	112873	0	WD
0200	Deerpark Br	218512	113573	74	WD
0300	Four Mile Water Br	0	0	0	WD
0400	Ballymakee Br	215032	113697	74	WD

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0010	127	29	100	0	12	1	28	0	0	0	59
0070	79	61	100	0	22	5	26	0	2	0	45
0200	47	81	100	0	26	8	22	0	5	0	38
0400	27	104	97	3	34	8	19	0	7	0	32

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **OUTERAGH STREAM**

**16/O/01**

Tributary of : 16S02 SUIR

OS Catchment No: 182

OS Grid Ref of Confluence: S 054 267

Date(s) Surveyed: 20/8/2008

Station Nos.	Biological Quality Ratings (Q Values)					
	1993	1996	1999	2002	2006	2008
0150	3	3-4	3	3	3	-
0200	3-4	3-4	3-4	3	3	3-4

**Assessment:** Only moderate ecological quality in this spring-influenced stream.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0150	Br W of Outeragh	207004	129597	74	TY
0200	Br u/s Suir R confl	206169	127522	74	TY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0150	52	20	0	100	74	0	0	5	22	0	0
0200	45	53	0	100	64	0	0	2	35	0	0

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **OWENBEG (TIPPERARY)**

**16/O/02**

Tributary of : 16C02 CLODIAGH (TIPPERARY)

OS Catchment No: 182

OS Grid Ref of Confluence: S 038 564

Date(s) Surveyed: 4/9/2008

Station Nos.	1988	1992	1996	1999	Biological Quality Ratings (Q Values)		
					2003	2006	2008
0200	-	-	4	4	4	4	4
0300	4-5	4	-	-	-	-	-
0400	4-5	4	4	4	4	-	-
0500	4-5	4-5	-	-	-	-	-
0700	4-5	4	4	4-5	4	4	4

**Assessment:** Satisfactory with both locations again showing good ecological quality.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br nr Roan	198577	160362	59	TY
0300	NNE of Knockmehil	0	0	0	TY
0400	Br SW of Rossoulty	201652	159248	66	TY
0500	Ford u/s Mulgrave Br	0	0	0	TY
0700	Br u/s Clodiagh R confl	203861	156460	66	TY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	179	7	100	0	60	13	0	0	0	0	27
0400	139	24	100	0	84	5	0	0	3	0	9
0700	81	32	99	1	83	4	0	0	6	0	8

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **POLLANASSA**

**16/P/02**

Tributary of : 16B02 BLACKWATER (KILMACOW)

OS Catchment No: 182

OS Grid Ref of Confluence: S 562 235

Date(s) Surveyed: 1/7/2008, 30/6/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1988	1993	1996	1999	2002	2005	2008
0040	4	4	4	4	4	4	4
0060	3-4	2-3	-	-	-	-	-
0100	3-4	3-4	4	4	4	4	4
0300	4	4	3-4	3	3-4	3-4	-
0500	4	4-5	4	4	4	3	3-4*

**Assessment:** Satisfactory apart from final location (0500) where again silted.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0040	Mabbotstown Br	249111	131237	67	KK
0060	Ford u/s Lismateige Br	0	0	0	KK
0100	Br SE of Harristown	251822	128009	75	KK
0300	Br SW of Ballynacooly	253434	124687	76	KK
0500	Walsh's Br	255922	124121	76	KK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0040	191	8	99	1	86	3	0	0	0	0	11
0100	110	17	99	1	87	4	0	0	3	0	6
0300	92	38	100	0	78	11	0	0	5	0	6
0500	59	45	100	0	77	10	3	0	4	0	5

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.



River and Code : **ROSSADREHID STREAM**

**16/R/06**

Tributary of : 16A01 AHERLOW

OS Catchment No: 182

OS Grid Ref of Confluence: S 562 235

Date(s) Surveyed: 8/9/2008

Station Nos.	Biological Quality Ratings (Q Values)				
	1996	1999	2002	2006	2008
0100	4	3-4	3	3-4	3-4*

**Assessment:** Continuing less than satisfactory with siltation, by suspected water-works discharges, affecting ecological status.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Dromamarka Br	192158	129351	74	TY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	76	7	94	6	11	8	37	0	0	0	45

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **ROSSESTOWN**

**16/R/01**

Tributary of : 16S02 SUIR

OS Catchment No: 182

OS Grid Ref of Confluence: S 133 625

Date(s) Surveyed: 2/9/2008

Station Nos.	Biological Quality Ratings (Q Values)									
	1977	1981	1985	1988	1992	1996	1999	2002	2005	2008
0020	-	-	-	3-4	3	-	-	3	3	3*
0040	-	-	-	3-4	3	3*	3*	3	3	3*
0100	3-4	3-4	3-4	3-4	4	3-4	4	3	3	-
0150	-	-	-	-	-	-	-	-	-	3
0200	4	4	4	3-4	4	4	4	3-4	3	-
0300	4	3-4	3-4	3-4	3-4	4	4	4	4	3

**Assessment:** Unsatisfactory throughout with poor ecological quality at all locations.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0020	Br NW of Derryville	220793	169256	60	
0040	Br NE of Barnalisheen	220183	169246	60	TY
0100	Lisaticy Br	218628	167002	60	TY
0150	West Br W of Ballyerk	217680	166720	0	TY
0200	Kilclonagh Br	216667	165507	60	TY
0300	2nd Br u/s Suir R confl	214571	163223	60	TY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0040	126	10	0	100	36	0	40	0	0	0	24
0100	122	16	0	100	43	3	35	0	3	0	17
0200	116	19	0	100	52	2	29	0	2	0	14
0300	105	30	0	100	63	3	19	0	4	0	10

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **SHANBALLY**  
 Tributary of : 16T01 TAR  
 OS Grid Ref of Confluence: R 976 178  
 Date(s) Surveyed: 7/8/2008

**16/S/01**  
 OS Catchment No: 182

Station Nos.	Biological Quality Ratings (Q Values)						
	1988	1992	1996	1999	2002	2006	2008
0100	4	4	4-5	4-5	4-5	4	4-5
0300	5	5	-	-	-	-	-
0400	4	4	4	4	4	4	4-5

**Assessment:** Continuing satisfactory, with high ecological status, at both locations.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Caherghaul Br	191145	117798	74	TY
0300	Coolgarranroe Br	0	0	0	TY
0400	Br at Shanbally	195178	116996	74	TY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	111	6	98	2	15	5	45	0	35	0	0
0400	71	24	40	60	67	4	12	0	14	0	2

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **SMARTSCASTLE STREAM** **16/S/07**  
 Tributary of : 16B02 BLACKWATER (KILMACOW) OS Catchment No: 182  
 OS Grid Ref of Confluence: S 586 146  
 Date(s) Surveyed: 30/6/2008

Station Nos.	Biological Quality Ratings (Q Values)					
	1993	1996	1999	2002	2005	2008
0200	4	3-4	4	4	4	-
0500	4	4	4	3-4	4	4
0800	4-5	4	4	4	4	4

**Assessment:** Continuing satisfactory at the two locations examined with good status recorded.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br SW of Knockbrack Gorse	261136	123664	76	KK
0500	Br d/s Catsrock Br	261048	119630	76	KK
0800	Br SW of Smartscastle (Main flow)	259406	116096	76	KK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	132	2	100	0	25	15	0	0	19	0	41
0500	20	11	99	1	51	10	0	0	23	0	16
0800	6	43	65	35	74	4	0	0	16	0	6

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **SUIR**

**16/S/02**

Tributary of : Waterford Harbour

OS Catchment No: 182

OS Grid Ref of Confluence: S 402 215

Date(s) Surveyed: 22/9/2008, 23/9/2008, 24/9/2008, 25/9/2008

Station Nos.	Biological Quality Ratings (Q Values)														
	1971	1974	1978	1980	1982	1985	1986	1988	1992	1993	1996	1999	2002	2005	2008
0025	-	-	-	-	-	-	4	4	4	-	3-4	4	4	4	-
0050	-	-	-	-	-	-	3-4	3	4	-	-	-	-	-	-
0100	5	5	5	5	-	4	3-4	3-4	4	-	4	4	3-4	4	4
0200	5	4	4-5	5	4	-	4	3-4	4	-	3-4	3-4	4	3-4	3-4
0300	3-4	3-4	2-3	3	3	-	3	3	3-4	-	3	3	3	3	3
0400	3-4	3-4	3	3	3	3	3	3	3	-	-	-	-	-	-
0500	4-5	4	3-4	3-4	3-4	-	4	4	4	-	3-4	4	4	3-4	4
0600	2	2	3	3	3	3	3	3	3	-	3	3	3	3	3
0800	-	-	3	3	3-4	3-4	3-4	4	4	-	-	-	-	-	-
0810	2-3	2	2	3	2-3	3-4	3-4	-	-	-	-	-	-	-	-
0900	2	2-3	2-3	2-3	3	3	3	3	3-4	-	3-4	3-4	4	3	3
1000	-	-	3-4	3	3	3	3	3	3-4	-	-	-	-	-	-
1100	-	4	3-4	3-4	3	-	-	3	3-4	-	3	3-4	3-4	3	3
1200	4	4	4	4	3-4	3-4	3-4	3	4	-	3-4	3-4	4	3	4
1300	5	4	5	5	4-5	4	4	4	4	-	4	4	4-5	3-4	4
1400	4-5	4-5	4-5	4	4	4	4	4	4	-	4	3-4	4	3-4	4
1450	-	-	3	3	2-3	-	4	4	-	4	-	-	-	-	-
1500	4-5	4	4-5	4	4	-	4	4	-	4	4	4	3-4	3-4	4
1600	4-5	4-5	4	4	-	-	4-5	4	-	4	4	4	3-4	4	4
1700	4-5	4	4	4	-	-	4-5	3-4	-	4	4	4	4-5	4	4
1800	-	-	-	4	4	-	4	4	-	3-4	4	4	4	3-4	-
1930	-	-	-	3-4	3-4	-	3-4	-	-	3-4	3-4	3-4	3-4	4	4
2000	5	3-4	3-4	3-4	3-4	-	3-4	-	-	3	3-4	3-4	3-4	3-4	4
2100	-	-	3-4	4	3-4	-	3-4	-	-	4	-	-	-	-	-
2200	5	3-4	4-5	4	-	-	4	4	-	4	4	4	4	4	4
2300	5	4	4-5	4-5	-	-	4	4	-	4	4	4	4-5	4	4
2400	5	4	5	5	4	-	4	4	-	4	4-5	4	4	4	4
2500	-	-	-	4	3-4	-	4	-	-	3-4	-	-	-	-	-
2510	-	-	-	2-3	2-3	-	-	4	-	-	-	-	-	-	-
2600	3-4	3	4	4	3-4	-	3-4	3	-	3	2-3	2-3	3-4	3-4	4
2700	4-5	3	3-4	4	3-4	-	3-4	3	-	3	3	3	3	3-4	3-4
2750	-	-	-	-	-	-	-	-	-	3	3	3	3-4	3-4	4
2800	4-5	3-4	2-3	2-3	3	-	3	-	-	-	-	-	-	-	-
2850	-	-	-	-	-	-	-	3	-	3	3	3	3	3	3

**Assessment:** Mostly satisfactory following improvement at eight locations. Ecological quality was good at 15 locations, moderate at two and poor at five. Continuing polluted downstream of Templemore, in and downstream of Thurles as far as Holycross, and also just upstream of Carrick-on-Suir. The crayfish, a protected species, was recorded at 15 of the 22 sites examined. These successfully reproducing populations could be threatened if reports of the introduction of an alien crayfish to the Suir turn out to be correct.

*Hydrometric Area 16 (2008)*

<b>Station No.</b>	<b>Stations Location</b>	<b>National X</b>	<b>Grid Ref. Y</b>	<b>Discovery Series No.</b>	<b>County Code</b>
0025	Skehanagh Br	210165	178273	59	TY
0050	Killough Br	0	0	0	TY
0100	Knockanroe Br	213506	177642	60	TY
0200	Knocknageragh Br	213093	172534	60	TY
0300	Penane Br	212437	169265	60	TY
0400	Loughmore Br	0	0	0	TY
0500	Rossestown Br	213394	162447	60	TY
0600	Br in Thurles	212895	158636	66	TY
0800	Just N of Turtulla Ho (Main channe	0	0	0	TY
0810	Just N of Turtulla Ho (RHS)	0	0	0	TY
0900	Cabragh Br	211242	155876	66	TY
1000	2 km d/s Cabragh Br, Beakstown	0	0	0	TY
1100	Br at Holycross	209054	154131	66	TY
1200	Twoford Bridges	207006	151538	66	TY
1300	Ardmayle Br	205194	145971	66	TY
1400	Camus Br	204633	143106	66	TY
1450	D/s Black Stream (LHS)	0	0	0	TY
1500	Golden Br	201224	138387	66	TY
1600	New Br	200209	134188	66	TY
1700	Br 2 km u/s Caher	205946	126322	74	TY
1800	Br in Caher	204978	124774	74	TY
1930	Nr Killeenbutler	205897	122117	74	TY
2000	Br at Ardfinnan	208308	117567	74	TY
2100	Fords nr Ballyveera	0	0	0	TY
2200	Newcastle Br	213040	113658	74	TY
2300	Knocklofty Br	214416	120616	74	WD
2400	SE of Marlfield	217676	121239	74	WD
2500	East Br, Clonmel (RHS)	0	0	0	TY
2510	East Br, Clonmel (LHS)	0	0	0	TY
2600	Sir Thomas Br	223847	122857	75	WD
2700	Kilsheelan Br	228617	123217	75	WD
2750	N of Churchtown	233380	122808	75	WD
2800	Coolnamuck Weir	0	0	0	WD
2850	1.5 km u/s Carrick-on-Suir	238510	121890	75	TY

**Hydrometric Area 16 (2008)**

*Site Altitude and Upstream Catchment Characteristics (where available):*

<b>Site No.</b>	<b>Alt</b>	<b>Area</b>	<b>Sil</b>	<b>Cal</b>	<b>Pasture</b>	<b>Forestry</b>	<b>Bogs</b>	<b>Urban</b>	<b>Misc Ag.</b>	<b>Water</b>	<b>Other</b>
0025	142	8	100	0	30	49	0	0	0	0	21
0100	116	21	63	36	68	23	0	0	1	0	8
0200	107	96	21	79	80	7	3	1	4	0	5
0300	103	156	17	83	82	6	3	1	5	0	5
0500	96	220	12	88	80	5	4	1	6	0	5
0600	94	229	12	88	80	5	4	1	6	0	4
0900	91	443	6	94	71	5	10	1	8	0	5
1100	83	492	6	94	71	5	9	1	9	0	5
1200	75	497	5	94	71	5	9	1	9	0	5
1300	65	801	19	81	76	4	6	1	10	0	4
1400	64	850	18	82	76	3	6	1	10	0	4
1600	53	1090	25	75	76	4	5	1	10	0	4
1700	42	1557	28	72	75	5	5	1	10	0	4
1800	40	1563	28	72	75	5	5	1	10	0	4
1930	36	1583	28	72	75	5	5	1	10	0	4
2000	30	1678	27	73	74	5	5	1	11	0	4
2200	27	1941	31	69	70	6	8	1	10	0	5
2300	20	2107	35	65	68	6	8	1	11	0	6
2400	17	2132	35	65	68	6	8	1	11	0	6
2600	12	2181	35	65	67	6	8	1	11	0	6
2700	9	2639	30	70	69	6	7	1	12	0	5
2750	7	2699	31	69	68	6	8	1	12	0	5
2850	4	2730	31	69	68	6	7	1	12	0	5

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **TAR**  
 Tributary of : 16S02 SUIR  
 OS Grid Ref of Confluence: S 115 147  
 Date(s) Surveyed: 5/8/2008, 6/8/2008

**16/T/01**  
 OS Catchment No: 182

Station Nos.							Biological Quality Ratings (Q Values)				
	1976	1977	1981	1986	1988	1992	1996	1999	2002	2006	2008
0030	-	-	-	-	5	4-5	4-5	4-5	4-5	4-5	4-5
0100	-	-	5	4-5	4-5	4-5	-	-	-	-	-
0200	-	4	5	4-5	4	4-5	4	4-5	4-5	-	-
0300	-	-	4	4-5	4-5	4	-	4-5	3-4	4	4
0400	-	-	-	-	-	-	4	-	-	-	-
0420	-	-	-	5	4	4	-	-	-	-	-
0460	-	-	-	-	-	-	4	4	4-5	4	-
0500	-	-	5	5	4-5	4-5	-	-	-	-	-
0600	5	4-5	5	4-5	4-5	4	4-5	4-5	4-5	4	4

**Assessment:** Continuing satisfactory with high ecological quality at one of the three locations.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0030	Br NE of Rossrehill	197052	119717	74	TY
0100	Kilganny Br	0	0	0	TY
0200	Garrymore Br	198509	115639	74	TY
0300	Clogheen Br	200348	114038	74	TY
0400	Nr Ballyboy Ho	202081	114322	74	TY
0420	Br nr Castlegrace Ho	0	0	0	TY
0460	Ford WNW of Kilgroy	205979	114373	74	TY
0500	Goats Br	0	0	0	TY
0600	Ford u/s Tar Br	210542	113401	74	TY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0030	85	10	99	1	3	7	83	0	0	0	6
0200	54	79	53	47	47	9	29	0	7	0	9
0300	47	92	45	55	52	8	25	0	7	0	8
0400	45	165	52	48	54	10	21	0	5	0	9
0460	38	189	51	49	54	10	22	0	5	0	9
0600	32	222	52	48	51	12	22	0	6	0	9

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.



River and Code : **THONOGE**  
 Tributary of : 16S02 SUIR  
 OS Grid Ref of Confluence: S 066 204  
 Date(s) Surveyed: 20/8/2008

**16/T/02**  
 OS Catchment No: 182

Station Nos.	Biological Quality Ratings (Q Values)								
	1981	1985	1988	1992	1996	1999	2002	2006	2008
0010	-	-	-	-	4	4	4-5	4	-
0050	-	4-5	4	4-5	-	-	-	-	-
0080	-	-	-	-	4	4	4	4	4
0100	4	4-5	4	4-5	-	-	-	-	-
0200	4	4-5	4-5	4	4	4	4	4	4
0300	-	4	-	-	-	-	-	-	-

**Assessment:** Continuing satisfactory with good ecological quality at both locations.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0010	Kilcoran Br	198887	121841	74	TY
0050	Curraghmore Br	0	0	0	TY
0080	Br u/s Ballylooby	200424	119604	74	TY
0100	Ford 0.5 km d/s Ballylooby	0	0	0	TY
0200	East Br, Tubbrid	203450	118142	74	TY
0300	Ballybrada Br	0	0	0	TY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0010	98	9	100	0	1	22	50	0	0	0	27
0080	61	19	70	30	31	21	26	0	1	0	20
0200	46	40	34	66	50	11	13	0	16	0	10

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

**SERBD: HYDROMETRIC AREA NO. 16**

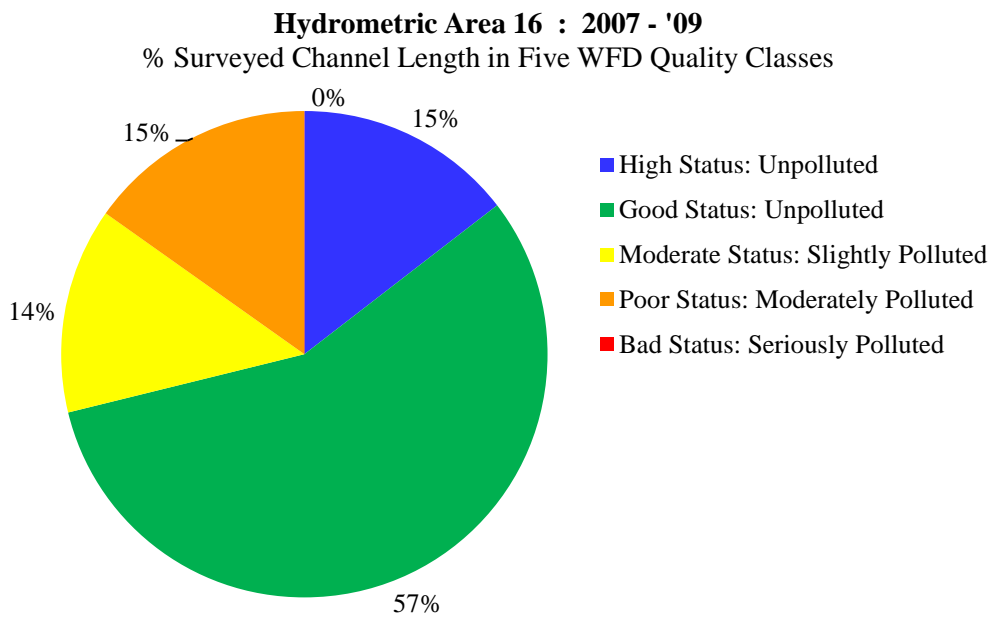
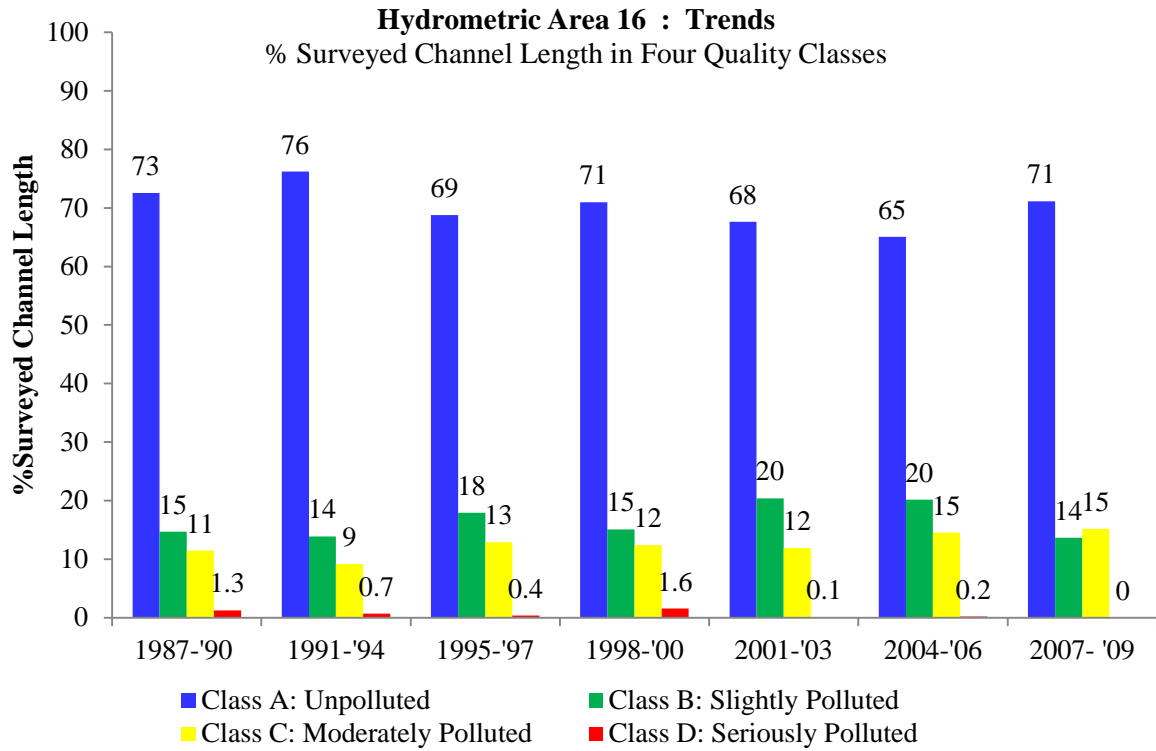
The baseline rivers showing the channel length surveyed (km) and the estimated channel length in four biological quality classes:- A - Unpolluted, B - Slightly polluted/eutrophic, C - Moderately polluted and D - Seriously polluted. Data from biological surveys in period 2007-2009.

Channel Length (km) in Class			A	A	B	C	D	Total
WFD Quality Class			High	Good	Moderate	Poor	Bad	
River Name	Year	Code						
Aherlow	2008	16A01	0.0	43.0	0.0	0.0	0.0	43.0
Anner	2008	16A02	0.0	19.5	4.5	10.0	0.0	34.0
Ara	2008	16A03	0.0	8.0	5.0	11.0	0.0	24.0
Arglo	2008	16A04	0.0	0.0	12.0	0.0	0.0	12.0
Aughnaglanny	2008	16A05	7.0	0.0	0.0	0.0	0.0	7.0
Ballintemple Stream	2008	16B07	0.0	3.0	0.0	0.0	0.0	3.0
Black (Twomileborris)	2008	16B01	0.0	0.0	10.0	0.0	0.0	10.0
Black Stream (Cashel) <sup>1</sup>	2008	16B05	0.0	0.0	0.0	1.0	0.0	1.0
Blackwater (Kilmacow)	2008	16B02	0.0	16.5	3.5	0.0	0.0	20.0
Borrisoleigh Stream	2008/9	16B06	0.0	6.0	3.0	0.0	0.0	9.0
Burncourt	2008	16B04	9.0	0.0	0.0	0.0	0.0	9.0
Clashawley	2008	16C01	0.0	17.5	3.5	0.0	0.0	21.0
Clodiagh (Portlaw)	2008	16C03	0.0	18.0	6.0	1.0	0.0	25.0
Clodiagh (Tipperary)	2008	16C02	13.0	15.0	3.5	0.0	0.0	31.5
Clonmore Stream	2008	16C11	0.0	0.0	0.0	1.0	0.0	1.0
Clover	2008	16C04	0.0	0.5	2.0	1.0	0.0	3.5
Drish	2008	16D02	0.0	0.0	0.0	26.0	0.0	26.0
Duag	2008	16D03	0.0	12.0	0.0	0.0	0.0	12.0
Farneybridge	2008	16F02	0.0	2.0	4.0	7.0	0.0	13.0
Fidaghta	2008	16F01	0.0	0.0	8.0	0.0	0.0	8.0
Fishmoynes	2008	16F03	0.0	0.0	0.0	12.5	0.0	12.5
Glasha (Waterford)	2008	16G01	7.5	0.0	0.0	0.0	0.0	7.5
Glenboy	2008	16G03	0.0	5.5	0.0	0.0	0.0	5.5
Glengala	2008	16G05	0.0	5.0	0.0	0.0	0.0	5.0
Half-Way House Stream	2008	16H02	0.0	0.0	2.0	0.0	0.0	2.0
Killenaule Stream	2008	16K05	0.0	4.5	5.0	1.5	0.0	11.0
Lingaun	2008	16L01	0.0	23.0	0.0	0.0	0.0	23.0
Moyle	2008	16M01	0.0	0.0	0.0	18.0	0.0	18.0
Multeen East	2008	16M08	0.0	25.5	0.0	0.0	0.0	25.5
Multeen	2008	16M02	24.5	1.0	0.0	0.0	0.0	25.5
Nier	2008	16N01	18.5	0.5	0.0	0.0	0.0	19.0
Outeragh Stream	2008	16O01	0.0	0.0	4.0	0.0	0.0	4.0
Owenbeg (Tipperary)	2008	16O02	0.0	9.0	0.0	0.0	0.0	9.0
Pollanassa	2008	16P02	0.0	9.5	4.5	0.0	0.0	14.0
Rossadrehid Stream	2008	16R06	0.0	0.0	3.0	0.0	0.0	3.0
Rossestown	2008	16R01	0.0	0.0	0.0	13.0	0.0	13.0
Shanbally	2008	16S01	8.5	0.0	0.0	0.0	0.0	8.5
Smartscastle Stream	2008	16S07	0.0	10.0	0.0	0.0	0.0	10.0
Suir	2008	16S02	0.0	107.5	11.0	15.5	0.0	134.0
Tar	2008	16T01	12.5	14.5	0.0	0.0	0.0	27.0
Thonoge	2008	16T02	0.0	15.0	0.0	0.0	0.0	15.0
Total Length (km) surveyed this cycle	2008 -'09		100.5	391.5	94.5	118.5	0.0	705.0
Adjustments (km) (See below)*			0.0	0.0	0.0	13.5	0.0	13.5
Percentages			14.5	56.6	13.7	15.2	0.0	100.0
<b>Channel Length (km) in Class</b>			<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>Total</b>	
Baseline : Current Adjusted Status (km)	2007 -'09		492.0	94.5	105.0	0.0	691.5	
Percentages			71.1	13.7	15.2	0.0	100.0	
Baseline: Previous Unadjusted Status (km)**	2004 -'06		457.5	142.5	90.0	1.5	691.5	
Percentages			66.2	20.6	13.0	0.2	100.0	
Changes since Previous Survey (km)			34.5	-48.0	15.0	-1.5	0.0	

\*Adjustments: Deduct the 'extras' (+), add the 'shortages' (-).

\*\* Clabby *et al.*, 2008

<sup>1</sup> Rivers not previously included in the National Statistics.



<b>HYDROMETRIC AREA 19 (Lee, Cork Harbour &amp; Youghal Bay)</b>	
AUGHNABOY (CORK)	19A02
AWBOY	19A03
BLARNEY	19B02
BRIDE (LEE)	19B04
BUTLERSTOWN	19B06
CUMMER	19C02
CUSLOURA	19C01
DISSOUR	19D03
DOUGLAS (SULLANE)	19D04
DRIPSEY	19D06
DUNGOURNEY	19D07
FINNOW (FOHERISH)	19F01
FOHERISH	19F02
GARRANE (LEE)	19G03
GLASHABOY (LOUGH MAHON)	19G01
KEEL	19K02
LANEY	19L01
LEE (CORK)	19L03
MARTIN	19M01
OWENBOY (CORK)	19O01
OWENNACURRA	19O03
SHOURNAGH	19S01
SULLANE	19S02
TEMPLEBODAN	19T01
TOON	19T02
WOMANAGH	19W01

River and Code : **AUGHNABOY (CORK)**

**19/A/02**

Tributary of : 19O01 OWENBOY (CORK)

OS Catchment No: 230

OS Grid Ref of Confluence: W 558 608

Date(s) Surveyed: 9/10/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1990	1994	1997	1999	2003	2005	2008
0100	4	3	3	3	4	4	-
0300	4	3-4	3-4	3-4	4	3-4	4

**Assessment:** Good ecological quality at the only scheduled sampling location.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	East Br nr Belrose	154661	63704	87	CK
0300	Br 0.7km SE of Cross Barry	155886	60792	87	CK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	93	8	100	0	64	4	0	0	32	0	0
0300	33	19	97	3	66	4	0	2	29	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **AWBOY**  
 Tributary of : 19L01 LANEY  
 OS Grid Ref of Confluence: W 349 790  
 Date(s) Surveyed: 15/10/2008

**19/A/03**  
 OS Catchment No: 228

Station Nos.	Biological Quality Ratings (Q Values)						
	1990	1994	1997	1999	2002	2005	2008
0100	5	-	-	-	-	-	-
0200	5	4-5	4	4	4-5	4	4-5

**Assessment:** Continuing satisfactory with high ecological quality recorded when sampled after recent flood.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br u/s Cusloura River	0	0	0	CK
0200	Awboy Br	134994	79154	79	CK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	140	21	100	0	17	13	29	0	21	0	20

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

*Hydrometric Area 19 (2008)*

River and Code : **BLARNEY** **19/B/02**  
 Tributary of : 19L03 LEE (CORK) OS Catchment No: 228  
 OS Grid Ref of Confluence: W 592 749  
 Date(s) Surveyed: 14/5/2008

Station Nos.	Biological Quality Ratings (Q Values)					
	1994	1997	1999	2002	2005	2008
0500	3-4	3-4	3-4	3-4	4	4

**Assessment:** Good quality recorded in successive surveys - prior to 2005 had been less than satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0500	Br NW of Killeens Cross	163785	75648	87	CK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0500	31	17	100	0	55	0	0	0	45	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BRIDE (LEE)**  
 Tributary of : 19L03 LEE (CORK)  
 OS Grid Ref of Confluence: W 564 708  
 Date(s) Surveyed: 15/10/2008, 16/10/2008

**19/B/04**  
 OS Catchment No: 228

Station Nos.	Biological Quality Ratings (Q Values)						
	1990	1994	1997	1999	2003	2005	2008
0400	4	4	4	4	4	4	4
0600	4-5	4	4	4	4-5	4	4-5
0610	-	3	2	3	2	2-3	4-5
0900	5	4-5	4	4-5	4-5	4-5	5
1300	4	4	4	4	4	4	4-5
1400	4	4	4-5	4-5	4	4	-
1500	4	-	-	-	-	-	-
1600	4	4	3-4	4	3-4*	4	4

**Assessment:** Satisfactory throughout with high ecological quality at three of the sites. Significant improvement was recorded at Crookstown (0610) where high ecological quality was recorded but the hydromorphological condition of the site was only moderate. Some artificial siltation was recorded along right-hand margin of river at the final location (1600) but overall quality was satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0400	Hornhill Br	138436	62860	86	CK
0600	Br at Crookstown LHS	142645	65936	86	CK
0610	Br at Crookstown RHS	142645	65936	86	CK
0900	Coolmucky Br	146046	67832	86	CK
1300	Kilcrea Br	150906	68380	87	CK
1400	Br at Killumney	154670	68652	87	CK
1500	Ovens Br	0	0	0	CK
1600	Br u/s Lee R confl	156277	70712	87	CK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0400	128	18	100	0	83	1	0	0	13	0	3
0600	60	47	100	0	71	3	0	0	21	0	5
0610	60	47	100	0	71	3	0	0	21	0	5
0900	44	70	96	4	70	3	0	1	22	0	4
1300	39	99	87	13	67	3	0	1	25	0	3
1400	30	113	85	15	66	3	0	1	27	0	3
1600	16	126	82	18	64	3	0	2	29	0	2

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.



River and Code : **BUTLERSTOWN**

**19/B/06**

Tributary of : 19G01 GLASHABOY (LOUGH MAHON)

OS Catchment No: 193

OS Grid Ref of Confluence: W 732 749

Date(s) Surveyed: 27/8/2008, 28/8/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1990	1994	1997	1999	2002	2005	2008
0200	4	4	4	3-4	3*	4	3-4
0400	4	-	-	-	-	-	-
0500	4-5	4-5	4-5	4-5	4	4	4
0600	4-5	-	-	-	-	-	-
0800	4	4	4	4	3-4	4	4

**Assessment:** Mostly satisfactory with good quality but deterioration at first location, since previous survey, where only moderate ecological status.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Trantstown Br	175265	81834	80	CK
0400	Br nr Woodside	0	0	0	CK
0500	Butlerstown Br	174313	78228	80	CK
0600	Third Br u/s Glashaboy River	0	0	0	CK
0800	Glyntown Br	173282	75004	87	CK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	111	8	100	0	54	0	0	0	46	0	0
0500	50	33	100	0	57	3	0	0	32	0	8
0800	0	64	100	0	62	4	0	3	28	0	4

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CUMMER**  
 Tributary of : 19L03 LEE (CORK)  
 OS Grid Ref of Confluence: W 385 681  
 Date(s) Surveyed: 15/10/2008

**19/C/02**  
 OS Catchment No: 228

Station Nos.	Biological Quality Ratings (Q Values)						
	1990	1994	1997	1999	2002	2005	2008
0200	-	4	4-5	4	4	4	4
0300	4	-	-	-	-	-	-
0500	-	4-5	4-5	4-5	3-4	4	-
0600	4	-	-	-	-	-	-
0800	3-4	4	4	4	3-4	3-4	4

**Assessment:** Satisfactory at both locations with improvement at final one since previous two surveys.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br W of Dunmarklun	135369	65809	86	CK
0300	Br SW of Teereeven	0	0	0	CK
0500	Ahagearagh Br	136028	67576	86	CK
0600	Br u/s Ballymichael Br	0	0	0	CK
0800	Athsollis Br	138985	67998	86	CK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	133	5	100	0	77	0	0	0	14	0	8
0500	85	11	100	0	77	3	0	0	14	0	7
0800	69	28	100	0	68	7	0	0	22	0	2

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

*Hydrometric Area 19 (2008)*

River and Code : **CUSLOURA**  
 Tributary of : 19A03 AWBOY  
 OS Grid Ref of Confluence: W 328 803  
 Date(s) Surveyed: 15/10/2008

**19/C/01**  
 OS Catchment No: 228

Station Nos.	Biological Quality Ratings (Q Values)						
	1990	1994	1997	1999	2002	2005	2008
0200	4	4	4	4	4	3-4	4

**Assessment:** Reversion to good ecological quality when sampled after recent flood.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br u/s Awboy R confl	132527	80312	79	CK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	180	6	100	0	1	16	39	0	28	0	16

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DISSOUR**  
 Tributary of : 19W01 WOMANAGH  
 OS Grid Ref of Confluence: X 022 748  
 Date(s) Surveyed: 25/8/2008

**19/D/03**  
 OS Catchment No: 191

Station Nos.	Biological Quality Ratings (Q Values)						
	1989	1994	1997	1999	2002	2005	2008
0200	4-5	3	4	4	4	4	3-4
0300	4-5	-	-	-	-	-	-
0400	4-5	4	4-5	3-4	3-4	4	-
0500	4-5	-	-	-	-	-	-
0600	4-5	4*	3-4	4	4	4	3-4

**Assessment:** Unsatisfactory at both locations with only moderate ecological quality representing deterioration since previous survey.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br WSW of Ballyre	197797	82386	81	CK
0300	Dangan Br	0	0	0	CK
0400	Br in Killeagh	200523	76655	81	CK
0500	1km S of Killeagh	0	0	0	CK
0600	Br just u/s Womanagh R confl	202171	74782	81	CK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	87	12	100	0	63	19	0	0	1	0	17
0400	19	29	100	0	58	11	0	0	23	0	8
0600	2	42	92	8	62	8	0	0	25	0	6

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DOUGLAS (SULLANE)**

**19/D/04**

Tributary of : 19S02 SULLANE

OS Catchment No: 228

OS Grid Ref of Confluence: W 221 757

Date(s) Surveyed: 9/7/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1990	1994	1997	1999	2002	2005	2008
0200	-	4	4	4	4	4	-
0700	4-5	4-5	4-5	4-5	4-5	4-5	4-5

**Assessment:** Continuing satisfactory with high status again recorded.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br S of Gortnascarty	118211	74015	79	CK
0700	Br u/s Sullane R confl	121324	75192	79	CK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	174	3	100	0	1	34	55	0	2	0	8
0700	121	15	100	0	21	7	31	0	29	0	12

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

*Hydrometric Area 19 (2008)*

River and Code : **DRIPSEY**  
 Tributary of : 19L03 LEE (CORK)  
 OS Grid Ref of Confluence: W 487 737  
 Date(s) Surveyed: 14/5/2008

**19/D/06**  
 OS Catchment No: 228

Station Nos.	Biological Quality Ratings (Q Values)									
	1976	1981	1986	1990	1994	1997	1999	2002	2005	2008
0010	-	-	-	-	4	4	4	3-4	3-4	-
0100	-	5	5	5	-	-	-	-	-	-
0150	-	-	3-4	4	4	4-5	4-5	4-5	4-5	4-5
0200	-	4-5	4	4	-	-	-	-	-	-
0300	-	5	4-5	4-5	4-5	3-4	4	4	4	4
0400	3/0	4	3/0	4	4	3-4	4-5	4	4	4

**Assessment:** No change with good quality at two of the three locations and the uppermost one continuing in high status.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0010	NW of Toureen	141719	85935	80	CK
0100	Dripsey Br (Upper)	0	0	0	CK
0150	Dripsey Br (Lower)	146124	79630	80	CK
0200	Athnanangle Br	0	0	0	CK
0300	Luskin's Br	147371	76332	80	CK
0400	Dripsey Br	148779	73880	87	CK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0010	337	3	100	0	0	72	10	0	0	0	18
0150	130	28	100	0	64	13	6	0	4	0	12
0300	77	34	100	0	66	12	5	0	6	0	10
0400	50	82	100	0	69	7	3	1	16	0	4

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DUNGOURNEY**  
 Tributary of : 19O03 OWENNACURRA  
 OS Grid Ref of Confluence: W 897 731  
 Date(s) Surveyed: 26/8/2008

**19/D/07**  
 OS Catchment No: 192

Station Nos.	1988	1994	1997	1999	Biological Quality Ratings (Q Values)		
					2003	2005	2008
0200	4	4	4	3-4	4	3-4	4
0300	3-4	-	-	-	-	-	-
0400	4	4	4-5	4	4	4	-
0500	4	4	4-5	4-5	4-5	4	4
0600	4	4	4	4	4	4	-
0700	3	4	4	3	3	3	3

**Assessment:** Mostly satisfactory, with good ecological quality, but continuing with poor status in Midleton.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Ballynona Br (Upper)	191174	81754	81	CK
0300	Br in Dungourney	0	0	0	CK
0400	Br d/s Dungourney	192975	78828	81	CK
0500	Ballynona Br	193284	75928	81	CK
0600	Br SE of Killeagh	190499	74690	81	CK
0700	Br in Midleton	188405	73368	81	CK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	115	7	100	0	49	33	0	0	0	0	18
0400	64	22	100	0	59	15	0	0	13	0	13
0500	33	32	100	0	62	11	0	0	17	0	9
0600	9	37	96	4	61	10	0	0	21	0	8
0700	1	52	71	29	54	7	0	2	32	0	6

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **FINNOW (FOHERISH)**

**19/F/01**

Tributary of : 19F02 FOHERISH

OS Catchment No: 228

OS Grid Ref of Confluence: W 288 754

Date(s) Surveyed: 11/6/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1990	1994	1997	1999	2002	2005	2008
0100	-	4	4	4	4	4	-
0300	4	4-5	4-5	4	4-5	4	4

**Assessment:** Good quality again recorded at the only location sampled on this tributary of the Foherish.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Ullanes Br	123702	77338	79	CK
0300	Bealahacreagh Br	127930	76361	79	CK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	157	6	100	0	27	0	17	0	35	0	21
0300	122	23	100	0	43	4	10	0	12	0	30

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.



River and Code : **FOHERISH**  
 Tributary of : 19S02 SULLANE  
 OS Grid Ref of Confluence: W 296 733  
 Date(s) Surveyed: 11/6/2008

**19/F/02**  
 OS Catchment No: 228

Station Nos.	Biological Quality Ratings (Q Values)						
	1990	1994	1997	1999	2002	2005	2008
0100	-	5	4-5	4-5	4-5	4-5	4-5
0200	5	4-5	4-5	4-5	4-5	4-5	-
0300	5	4-5	4-5	4-5	4-5	4-5	4-5
0400	4-5	4-5	4-5	4-5	4	4-5	-
0600	4-5	4-5	4-5	4	4-5	4-5	4-5

**Assessment:** High status again recorded at the three locations sampled.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br N of Curraleigh	126389	80956	79	CK
0200	Foherish Br	128000	81432	79	CK
0300	W of Caherbirrane	129081	79198	79	CK
0400	Garranenagappul Br (Clondrohid Br)	129521	76042	79	CK
0600	Carrigaphoooca Br	129654	73741	79	CK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	189	10	100	0	9	60	14	0	16	0	1
0200	173	19	100	0	20	41	19	0	14	0	5
0300	155	37	100	0	36	25	20	0	15	0	4
0400	121	45	100	0	42	21	17	0	13	0	7
0600	79	75	100	0	43	14	14	0	12	0	18

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **GARRANE (LEE)**

**19/G/03**

Tributary of : 19F02 FOHERISH

OS Catchment No: 228

OS Grid Ref of Confluence: W 270 811

Date(s) Surveyed: 11/6/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1990	1994	1997	1999	2002	2005	2008
0200	4-5	4	4-5	4-5	4-5	4	4-5

**Assessment:** Continuing satisfactory with high status recorded at the only location sampled on this tributary of the Foherish.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Garrane Br	127067	81218	79	CK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	184	7	100	0	26	27	26	0	7	0	13

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **GLASHABOY (LOUGH MAHON)**

**19/G/01**

Tributary of :

OS Catchment No: 193

OS Grid Ref of Confluence: W 727 727

Date(s) Surveyed: 28/8/2008

Station Nos.							Biological Quality Ratings (Q Values)				
	1971	1976	1981	1986	1990	1994	1997	1999	2002	2005	2008
0050	-	-	-	-	4	-	-	-	-	-	-
0100	-	-	5	4	3	-	-	-	-	-	-
0200	5	3-4	4	3-4	4	4	3-4	3-4	3-4	3-4	4
0250	-	-	-	-	4	-	-	-	-	-	-
0300	5	4-5	4-5	4	4-5	3	4	4	4	4	-
0400	5	5	4	4	4-5	4	4	4	4	4	4
0500	5	5	4-5	4	4	-	-	-	-	-	-
0600	-	-	-	-	4	4	4	4	4	4	4

**Assessment:** Satisfactory throughout, with good ecological quality, following improvement in upper reaches.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Br WNW of Lyrenamon	0	0	0	CK
0100	Br S of Lyrenamon	0	0	0	CK
0200	Ballyvorisheen Br	166906	84297	80	CK
0250	Br E of Carrignavar	0	0	0	CK
0300	Dunbulloge Br	168216	80506	80	CK
0400	Upper Glanmire Br	171469	78280	80	CK
0500	Br u/s Butlerstown R confl	0	0	0	CK
0600	d/s Butlerstown R confl	172890	74897	87	CK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	128	15	100	0	76	15	0	0	5	0	4
0300	75	39	100	0	74	8	0	0	17	0	2
0400	33	64	100	0	73	8	0	0	18	0	1
0600	0	141	100	0	66	6	0	3	24	0	2

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

*Hydrometric Area 19 (2008)*

River and Code : **KEEL** **19/K/02**  
 Tributary of : 19F02 FOHERISH OS Catchment No: 228  
 OS Grid Ref of Confluence: W 282 814  
 Date(s) Surveyed: 11/6/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	<b>1990</b>	<b>1994</b>	<b>1997</b>	<b>1999</b>	<b>2002</b>	<b>2005</b>	<b>2008</b>
0200	4-5	4	4	4	4-5	4	4

**Assessment:** Continuing satisfactory with good quality again recorded at the only location sampled on this tributary of the Foherish.

Station No.	Stations Location	National <b>X</b>	Grid Ref. <b>Y</b>	Discovery Series No.	County Code
0200	Keel Br	128225	81459	79	CK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	172	10	100	0	47	9	14	0	28	0	2

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

*Hydrometric Area 19 (2008)*

River and Code : **LANEY**  
 Tributary of : 19S02 SULLANE  
 OS Grid Ref of Confluence: W 352 725  
 Date(s) Surveyed: 15/10/2008

**19/L/01**  
 OS Catchment No: 228

Station Nos.	Biological Quality Ratings (Q Values)									
	1976	1981	1986	1990	1994	1997	1999	2002	2005	2008
0100	-	5	5	5	4	4-5	4	4-5	4	4
0200	-	5	5	5	4	4-5	4-5	4-5	4-5	4-5
0300	-	5	5	5	-	-	-	-	-	-
0400	-	5	5	5	4-5	4-5	4-5	4-5	4-5	4-5
0500	5	5	5	4	4-5	4-5	4-5	4-5	4-5	4-5

**Assessment:** Continuing satisfactory with high ecological quality at three of the four locations.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Carrigagulla Br	138937	83010	79	CK
0200	Knocknagappul Br	135451	79688	79	CK
0300	Br d/s Bawnmore	0	0	0	CK
0400	Morris's Br	135688	75528	79	CK
0500	Laney Br	135296	72721	79	CK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	206	21	100	0	26	41	24	0	0	0	9
0200	145	38	100	0	40	26	22	0	3	0	10
0400	100	82	100	0	42	16	18	0	9	0	15
0500	68	98	100	0	48	14	16	0	9	0	13

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **LEE (CORK)**  
 Tributary of :  
 OS Grid Ref of Confluence: W 680 721  
 Date(s) Surveyed: 13/10/2008, 14/10/2008

**19/L/03**  
 OS Catchment No: 228

Station Nos.							Biological Quality Ratings (Q Values)				
	1971	1976	1981	1986	1990	1994	1997	1999	2002	2005	2008
0010	-	-	-	-	-	4-5	4-5	4	4	3/0	4-5
0040	-	-	-	-	-	4-5	4-5	4	4-5	4-5	-
0100	5	5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4	4
0200	5	5	5	4-5	4-5	4	4-5	4	4	4	4
0300	5	5	5	4-5	5	4-5	4-5	4	4	4	4
0600	4-5	4-5	4	4	3-4	3	3	3	3	3	3
0700	5	5	4	4	4	4	4	4	4	3-4	4

**Assessment:** Satisfactory apart from at Inishcarra Bridge where again poor ecological quality was recorded.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0010	Ford u/s Gouganebarra Lake	109447	66391	85	CK
0040	Br S of Gortafludig	111634	65872	85	CK
0100	Inchinossig Br	114730	66572	85	CK
0200	Foot-bridge d/s Inchigeelagh	123960	66674	85	CK
0300	Dromcarra Br	129554	67787	86	CK
0600	Inishcarra Br	157312	71034	87	CK
0700	Leemount Br	161345	71740	87	CK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0010	170	3	100	0	5	0	95	0	0	0	0
0040	108	17	100	0	8	19	70	0	0	2	0
0100	87	32	100	0	11	15	64	0	7	1	3
0200	80	118	100	0	23	17	43	0	9	2	6
0300	70	171	100	0	32	18	34	0	6	2	8
0600	11	918	97	3	49	10	15	1	16	2	8
0700	0	1179	97	3	52	8	12	2	19	1	6

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **MARTIN**  
 Tributary of : 19S01 SHOURNAGH  
 OS Grid Ref of Confluence: W 607 753  
 Date(s) Surveyed: 7/7/2008

**19/M/01**  
 OS Catchment No: 228

Station Nos.	Biological Quality Ratings (Q Values)												
	1971	1976	1978	1981	1983	1986	1990	1994	1997	1999	2002	2005	2008
0100	4-5	4	4-5	4	4	4	4	4	3-4	3	3	4	3-4
0200	2	2	1	3-4	3-4	3	3	4	4	4	4	4-5	4
0300	-	4	4-5	4	4	4	4	4	4	4	4	4	-
0400	4	5	4-5	4	4	4-5	4	4	4	4	4	4	4
0500	3-4	4-5	4-5	4	4	4-5	4	-	-	-	-	-	-
0600	3-4	4-5	4-5	4	3-4	4	4	4	4	3-4	3-4	4	4

**Assessment:** Satisfactory apart from uppermost location where only moderate status.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br E of Rockhill Br	158220	86409	80	CK
0200	1 km S of Rathduff (SEE of Grenagh)	159387	83966	80	CK
0300	Wise's Br	159681	81260	80	CK
0400	Putland's Br (Waterloo)	160574	78099	80	CK
0500	Just d/s Blarney Br (Lower)	0	0	0	CK
0600	Bawnafinny Br	159786	75419	87	CK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	121	2	100	0	100	0	0	0	0	0	0
0200	94	17	100	0	68	3	0	0	15	0	13
0300	72	40	100	0	71	4	0	0	18	0	7
0400	49	57	100	0	73	3	0	0	19	0	5
0600	24	88	96	4	67	3	0	1	25	0	4

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **OWENBOY (CORK)**

**19/O/01**

Tributary of :

OS Catchment No: 230

OS Grid Ref of Confluence: W 800 620

Date(s) Surveyed: 8/10/2008, 9/10/2008

Station Nos.	1990	1994	1997	1999	Biological Quality Ratings (Q Values)		
					2003	2005	2008
0100	2	-	-	-	-	-	-
0200	3	3	3	3	4	3	4
0400	3	3	3-4	3	4	4	-
0600	3-4	3*	3-4	3-4	3-4	3	-
0700	4	-	-	-	-	-	-
0800	3-4	3-4	3-4	3	4	4	4
1000	3-4	3-4	4	3-4	4	4	-
1400	3-4	3-4	3-4	3-4	3-4	3-4	3-4

**Assessment:** Continuing with only moderate ecological quality at final location but otherwise satisfactory with good status.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br SW of Knockpoge	0	0	0	CK
0200	Br SE of Crushnalanaun	156885	63060	87	CK
0400	Br nr Killeady	156747	61378	87	CK
0600	Priest's Br	160484	61293	87	CK
0700	Br at Ballinhassig	0	0	0	CK
0800	Paddy's Br	164269	62379	87	CK
1000	Bealahareagh Br	168419	63229	87	CK
1400	Ballea Br (Lower)	171238	62764	87	CK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	76	8	100	0	75	6	0	0	19	0	0
0400	38	11	100	0	73	6	0	2	18	0	0
0600	25	55	89	11	66	2	0	1	30	0	1
0800	24	72	85	15	65	2	0	1	32	0	1
1000	20	90	83	17	65	2	0	2	31	0	1
1400	7	104	84	16	63	2	0	3	31	0	1

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.



River and Code : **OWENNACURRA**

**19/O/03**

Tributary of :

OS Catchment No: 192

OS Grid Ref of Confluence: W 877 731

Date(s) Surveyed: 26/8/2008, 27/8/2008

Station Nos.	Biological Quality Ratings (Q Values)											
	1971	1976	1981	1983	1986	1988	1994	1997	1999	2003	2005	2008
0050	-	-	-	-	-	-	4-5	4-5	4	4	4	4
0100	-	-	4	3-4	4	4	-	-	-	-	-	-
0200	4	4	4	3-4	4-5	4	-	-	-	-	-	-
0220	-	-	-	-	-	-	4-5	4-5	4	4	4	4
0300	-	-	4	3-4	4	4	-	-	-	-	-	-
0400	4	4-5	3-4	3-4	4-5	4	4	4-5	4	4-5	4	4
0500	-	-	2-3	2-3	3-4	3-4	4	3-4	3-4	3-4	3-4	4
0600	2-3	2-3	2-3	2-3	3-4	3	4	3-4	3-4	-	-	-

**Assessment:** Improved in Middleton with good ecological quality throughout.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Br N of Ballysallagh	181575	81945	81	CK
0100	Br S of Ballincurrig	0	0	0	CK
0200	Br NE of Lisgoold	0	0	0	CK
0220	Lisgoold Br	185211	79841	81	CK
0300	Ballynaclashy Br	0	0	0	CK
0400	Br SW of Ballyedmond	186429	76152	81	CK
0500	Cork Br, Middleton	187923	73794	81	CK
0600	0.5km d/s Cork Br	187967	73287	81	CK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	125	10	100	0	68	14	0	0	0	0	17
0220	52	48	100	0	67	11	0	0	16	0	6
0400	21	75	100	0	64	11	0	0	21	0	4
0500	3	106	96	4	60	8	0	2	27	0	3
0600	1	106	95	5	60	8	0	2	27	0	3

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **SHOURNAGH**  
 Tributary of : 19L03 LEE (CORK)  
 OS Grid Ref of Confluence: W 609 717  
 Date(s) Surveyed: 8/7/2008

**19/S/01**  
 OS Catchment No: 228

Station Nos.	Biological Quality Ratings (Q Values)									
	1976	1981	1986	1990	1994	1997	1999	2002	2005	2008
0025	-	-	-	-	-	4-5	4	4	4	4
0050	-	-	-	-	4	-	-	-	-	-
0070	-	-	-	4	-	-	-	-	-	-
0100	-	5	4-5	4-5	4	4-5	4	4	4	4-5
0200	-	5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5
0280	-	-	-	4	-	-	-	-	-	-
0300	-	5	4-5	4	4-5	4	3-4	3-4	3-4	4
0400	4-5	5	4	4-5	-	-	-	-	-	-
0500	-	-	-	-	4-5	4-5	4-5	4-5	4	4

**Assessment:** Satisfactory throughout with high status at two of the locations.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0025	Br SE of Coolmona	150870	84245	80	CK
0050	Br N of Lackabane (on Meenahony Branch)	0	0	0	CK
0070	Br u/s Rathcoola River	0	0	0	CK
0100	Ballyvodane Br	153075	80941	80	CK
0200	E of Gortdonaghmore	156715	77115	80	CK
0280	Willison's Br	0	0	0	CK
0300	Tower Br (d/s Martin R confl)	158570	74615	87	CK
0400	Healy's Br	0	0	0	CK
0500	Bannow Br	160979	71803	87	CK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0025	153	9	100	0	49	14	10	0	23	0	4
0100	96	33	100	0	66	4	5	0	24	0	1
0200	55	64	100	0	67	3	2	0	27	0	1
0300	21	164	98	2	65	4	1	1	27	0	2
0500	0	255	99	1	63	3	1	4	27	0	2

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **SULLANE**  
 Tributary of : 19L03 LEE (CORK)  
 OS Grid Ref of Confluence: W 352 725  
 Date(s) Surveyed: 9/7/2008

**19/S/02**  
 OS Catchment No: 228

Station Nos.							Biological Quality Ratings (Q Values)				
	1971	1976	1981	1986	1990	1994	1997	1999	2002	2005	2008
0040	-	-	-	-	4	-	-	-	-	-	-
0100	5	5	5	4-5	4	4	4-5	4-5	4-5	4	4
0150	-	-	-	-	4-5	-	-	-	-	-	-
0170	-	-	-	-	4-5	4-5	4	4-5	4-5	4	4
0200	5	5	5	5	4-5	4-5	4-5	4-5	4-5	4-5	-
0300	-	-	5	4-5	5	4-5	4-5	4-5	4-5	4-5	4-5
0400	5	5	5	5	5	5	5	5	5	5	4-5
0460	-	-	-	-	4-5	-	-	-	-	-	-
0480	-	-	-	-	-	4	4	4	4	4	4
0500	5	5	5	4	4-5	-	-	-	-	-	-

**Assessment:** Continuing satisfactory with two locations again showing high status.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0040	Br N of Bard Inch	0	0	0	CK
0100	Milleeny Br	116141	75913	79	CK
0150	Ballyvourney Br	0	0	0	CK
0170	First Br d/s Ballyvourney Br	120196	76960	79	CK
0200	Poulnabro Br	122646	75600	79	CK
0300	Sullane Br	126048	74088	79	CK
0400	Linnamilla Br	131141	72792	79	CK
0460	0.5km d/s Macroom Br	0	0	0	CK
0480	Ford u/s Laney R confl	135041	72776	79	CK
0500	New Br, d/s Macroom	0	0	0	CK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	143	32	100	0	12	23	52	0	10	0	3
0170	118	72	100	0	15	17	41	0	17	0	10
0200	103	94	100	0	20	15	36	1	18	0	10
0300	87	110	100	0	25	13	32	0	17	0	12
0400	70	201	100	0	33	12	23	0	18	0	14
0480	68	219	100	0	35	11	21	1	20	0	13

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **TEMPLEBODAN**  
 Tributary of : 19O03 OWENNACURRA  
 OS Grid Ref of Confluence: W 852 809  
 Date(s) Surveyed: 27/8/2008

**19/T/01**  
 OS Catchment No: 192

Station Nos.	Biological Quality Ratings (Q Values)						
	1988	1994	1997	1999	2003	2005	2008
0100	4	4-5	4-5	4	4	4	3-4
0200	4	-	-	-	-	-	-

**Assessment:** Deterioration with only moderate ecological quality recorded.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Aughnabroga Br	185134	82766	81	CK
0200	Just u/s Owennacurra R confl	0	0	0	CK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	81	14	100	0	73	15	0	0	8	0	3

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **TOON**  
 Tributary of : 19L03 LEE (CORK)  
 OS Grid Ref of Confluence: W 300 707  
 Date(s) Surveyed: 12/6/2008

**19/T/02**  
 OS Catchment No: 228

Station Nos.	Biological Quality Ratings (Q Values)						
	1990	1994	1997	1999	2002	2005	2008
0200	4	4	4-5	4	4-5	4	4-5
0400	4	4	4-5	4	4-5	4	-
0700	4	4-5	4-5	4-5	4-5	4	4-5
0800	3-4	3-4	3-4	3-4	4	4	-

**Assessment:** High quality recorded at both locations sampled on this Lee tributary.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br S of Lack More	119551	71029	79	CK
0400	Br NE of Cleanrath North	122439	70406	79	CK
0700	Second Br u/s Lee R confl	126060	69190	86	CK
0800	Br u/s Lee R confl (Toon Br)	129665	70508	79	CK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	137	7	100	0	23	32	36	0	0	0	9
0400	114	17	100	0	25	25	31	0	11	0	9
0700	68	30	100	0	17	25	43	0	10	0	5
0800	63	47	99	1	34	16	30	0	13	0	7

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **WOMANAGH**

**19/W/01**

Tributary of :

OS Catchment No: 191

OS Grid Ref of Confluence: X 047 729

Date(s) Surveyed: 25/8/2008, 26/8/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1989	1994	1997	1999	2002	2005	2008
0300	-	-	4	4	4	4	4
0400	4	-	-	-	-	-	-
0500	3	3	3-4	4	4	4	-
0700	4	4	4-5	4	4	4	4
0900	4	-	-	-	-	-	-
1000	3-4	4	3-4	3	3-4	3-4	3-4
1100	3-4	-	-	-	-	-	-
1300	4	4-5	3-4	3-4	3	3	-
1400	4	4	-	-	-	-	-

**Assessment:** Continuing with just moderate ecological quality in Castlemartyr and with good status again recorded in upper reaches where also known as Kilha River.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Br SW of Donickmore	193542	81436	81	CK
0400	Br nr Glendonagh Ho	0	0	0	CK
0500	Br NE of Dungourney	193999	79995	81	CK
0700	Second Br N of Mogeely	195930	76185	81	CK
0900	Br S of Mogeely	0	0	0	CK
1000	Br in Castlemartyr	196371	73200	81	CK
1100	Br N of Ladysbridge	0	0	0	CK
1300	S of Ballyhonock Lough	198984	72513	81	CK
1400	Br d/s Dissour R confl	202187	74754	81	CK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	82	12	100	0	80	15	0	0	2	0	3
0500	70	15	100	0	79	14	0	0	5	0	2
0700	28	21	100	0	78	11	0	0	9	0	2
1000	13	23	92	8	76	10	0	0	12	0	2
1300	6	67	66	34	52	6	0	1	42	0	1

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

**SWRBD: HYDROMETRIC AREA NO. 19**

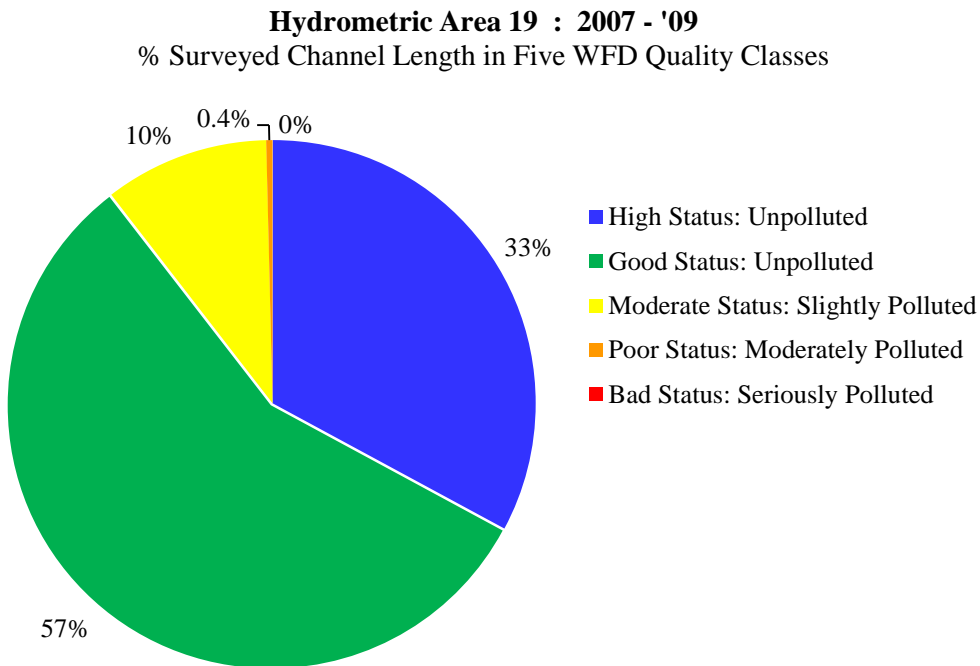
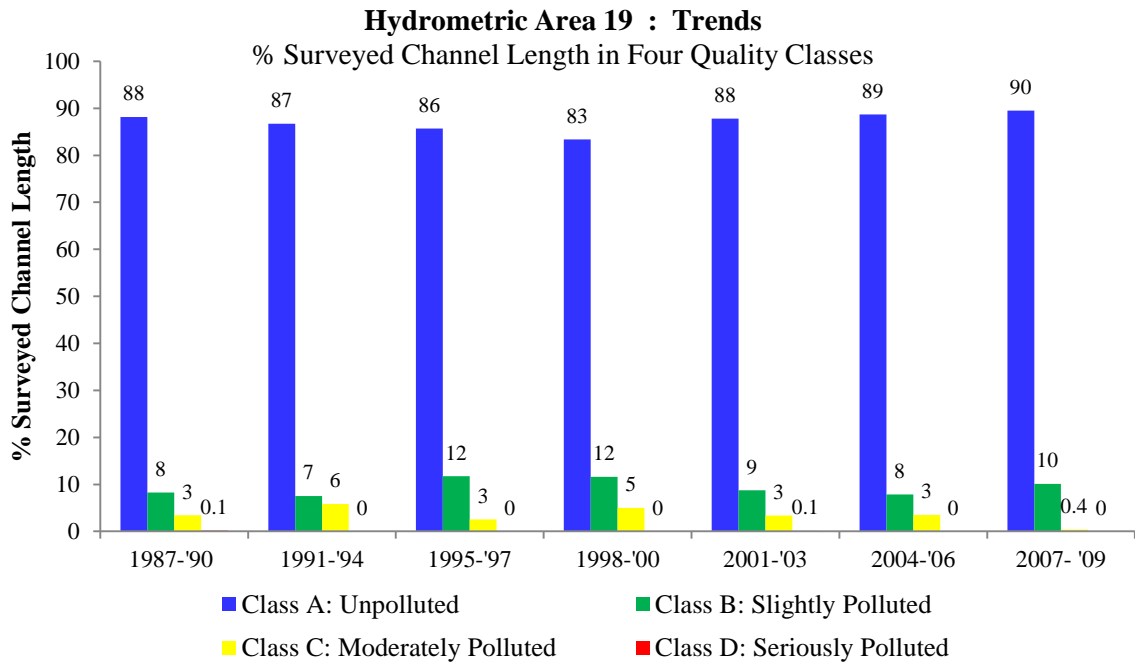
The baseline rivers showing the channel length surveyed (km) and the estimated channel length in four biological quality classes: A - Unpolluted, B - Slightly polluted/eutrophic, C - Moderately polluted and D - Seriously polluted. Data from biological surveys in period 2007-2009.

Channel Length (km) in Class			A	A	B	C	D	Total
WFD Quality Class			High	Good	Moderate	Poor	Bad	
River Name	Year	Code						
Aughnaboy (Cork)	2008	19A02	0.0	5.0	0.0	0.0	0.0	5.0
Awboy	2008	19A03	3.0	0.0	0.0	0.0	0.0	3.0
Blarney	2008	19B02	0.0	2.0	0.0	0.0	0.0	2.0
Bride (Lee)	2008	19B04	19.0	13.0	0.0	0.0	0.0	32.0
Butlerstown	2008	19B06	0.0	8.0	3.0	0.0	0.0	11.0
Cosloura	2008	19C01	0.0	3.0	0.0	0.0	0.0	3.0
Cummer	2008	19C02	0.0	8.0	0.0	0.0	0.0	8.0
Dissour	2008	19D03	0.0	0.0	12.0	0.0	0.0	12.0
Douglas (Sullane)	2008	19D04	3.3	3.3	0.0	0.0	0.0	6.5
Dripsey	2008	19D06	10.3	4.0	4.8	0.0	0.0	19.0
Dungourney	2008	19D07	0.0	15.5	0.0	0.5	0.0	16.0
Finnow (Foherish)	2008	19F01	0.0	8.0	0.0	0.0	0.0	8.0
Foherish	2008	19F02	18.0	0.0	0.0	0.0	0.0	18.0
Garrane (Lee)	2008	19G03	4.0	0.0	0.0	0.0	0.0	4.0
Glashaboy	2008	19G01	0.0	23.0	0.0	0.0	0.0	23.0
Keel	2008	19K02	0.0	2.5	0.0	0.0	0.0	2.5
Laney	2008	19L01	14.0	10.0	0.0	0.0	0.0	24.0
Lee (Cork)	2008	19L03	8.5	26.0	2.5	1.0	0.0	38.0
Martin	2008	19M01	0.0	14.0	1.5	0.0	0.0	15.5
Owenboy (Cork)	2008	19O01	0.0	21.0	2.0	0.0	0.0	23.0
Owennacurra	2008	19O03	0.0	17.5	0.0	0.0	0.0	17.5
Shournagh	2008	19S01	14.8	11.3	0.0	0.0	0.0	26.0
Sullane	2008	19S02	18.0	13.0	0.0	0.0	0.0	31.0
Templebodan	2008	19T01	0.0	0.0	4.5	0.0	0.0	4.5
Toon	2008	19T02	15.0	0.0	0.0	0.0	0.0	15.0
Womanagh	2008	19W01	0.0	12.0	9.0	0.0	0.0	21.0
Total Length (km) surveyed this cycle	2008		127.8	220.0	39.3	1.5	0.0	388.5
Adjustments (km) (See below)*			0.0	0.0	0.0	0.0	0.0	0.0
<i>Percentages</i>			32.9	56.6	10.1	0.4	0.0	100.0
Channel Length (km) in Class			A	B	C	D	Total	
Baseline: Current Adjusted Status (km)	2007 - '09		347.8	39.3	1.5	0.0	388.5	
<i>Percentages</i>			89.5	10.1	0.4	0.0	100.0	
Baseline: Previous Unadjusted Status (km)**	2004 - '06		344.5	30.5	13.5	0.0	388.5	
<i>Percentages</i>			88.7	7.9	3.5	0.0	100.0	
Changes since Previous Survey (km)			3.3	8.8	-12.0	0.0	0.0	

\*Adjustments: Deduct the 'extras' (+), add the 'shortages' (-).

\*\* Clabby *et al.*, 2008

<sup>1</sup> Rivers not previously included in the National Statistics.





<b>HYDROMETRIC AREA 24 (Shannon Estuary South)</b>	
AHACRONANE	24A01
# AHAVARRAGA STREAM	24A02
ARRA	24A04
BALLYLONGFORD	24B03
BARNAKYLE	24B05
BROADFORD STREAM	24B07
BUNOKE	24B06
CAMOGÉ	24C01
CHARLEVILLE STREAM	24C02
CLONSHIRE	24C03
CLOONLAHARD STREAM *	24C06
DEEL (NEWCASTLEWEST)	24D02
DOONCAHA STREAM *	24D07
FLEMINGSTOWN STREAM	24F03
GLENCORBRY	24G03
GREANAGH	24G05
LISMAKEERY STREAM	24L03
LOOBAGH	24L01
MAHORE	24M04
MAIGUE	24M01
MORNINGSTAR	24M02
OWVANE (LIMERICK)	24O02
SHANAGOLDEN STREAM	24S02
TARBERT STREAM	24T01

# indicates rivers having seriously polluted stretches at time of this survey.

\* CLOONLAHARD STREAM Formerly West Branch of Ovwane (Limerick) 24O02

\* DOONCAHA STREAM Formerly reported as the Middle Branch of the Shanagolden Stream

River and Code : **AHACRONANE**  
 Tributary of : Sea - Shannon Estuary  
 OS Grid Ref of Confluence: R 282 500  
 Date(s) Surveyed: 17/9/2008

**24/A/01**  
 OS Catchment No: 155

Station Nos.	Biological Quality Ratings (Q Values)						
	1989	1993	1996	1999	2002	2006	2008
0400	3	3	3	3	3	3	-
0700	3	-	-	-	-	-	-
0900	3	3	3	3	3	3	3

**Assessment:** Poor ecological status again recorded in this calcareous, spring-influenced, river.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0400	Br N of Lissatotan	130843	144103	64	LK
0700	Br N of Nutgrove Ho	0	0	0	LK
0900	Br SW of Barrigone	128407	149779	64	LK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0400	37	10	0	100	89	0	5	0	6	0	0
0900	2	22	0	100	77	0	2	0	10	0	10

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **AHAVARRAGA STREAM**  
 Tributary of : 24D02 DEEL (NEWCASTLEWEST)  
 OS Grid Ref of Confluence: R 367 258  
 Date(s) Surveyed: 23/7/2008

24/A/02

OS Catchment No: 155

Station Nos.	Biological Quality Ratings (Q Values)							
	1989	1993	1996	1999	2002	2005	2007	2008
0200	4	4	4	4	4	4	-	-
0300	1	3	-	-	-	-	-	-
0400	1	2-3	-	2	2	2	1-2	2
0600	2	3	-	-	-	-	-	-
0800	1-2	3	2	2-3	3	3	-	3

**Assessment:** Unsatisfactory with continuing serious pollution downstream of Drumcolliher (0200) and poor status further downstream West of Mundellihy (0800). Also known by the variant spelling Ahavarragh.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br at W side of Drumcolliher	137898	121113	72	LK
0300	Priests Br	0	0	0	LK
0400	Br 0.5 km d/s Priests Br	137521	121955	72	LK
0600	Moyvane Br	0	0	0	LK
0800	NW of Mundellihy	137266	124317	72	LK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	116	4	0	100	74	0	0	3	0	0	23
0400	107	6	0	100	76	0	0	9	0	0	15
0800	84	12	0	100	88	0	0	5	0	0	8

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **ARRA**

**24/A/04**

Tributary of : 24D02 DEEL (NEWCASTLEWEST)

OS Catchment No: 155

OS Grid Ref of Confluence: R 274 335

Date(s) Surveyed: 23/7/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1989	1993	1996	1999	2002	2005	2008
0300	4	4	4	4	4	4	-
0310	3	4	4	4	4	4	-
0400	3-4	4	-	-	-	-	-
0500	3	3-4	3	3-4	4	4	3
0600	3-4	4	-	-	-	-	-

**Assessment:** Deterioration recorded in Newcastle West where water quality status was poor.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Second Br E of Dromin	124927	133818	64	LK
0310	Br S of Dromin (RHS)	124927	133818	64	LK
0400	Br E of Cullenagh Ho	0	0	0	LK
0500	Cork Br, Newcastle West	128807	133497	64	LK
0600	Just u/s Deel R confl	0	0	0	LK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	88	3	0	100	79	15	5	0	0	0	0
0310	88	3	0	100	79	15	5	0	0	0	0
0500	49	40	0	100	83	4	2	3	6	0	2

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BALLYLONGFORD**

**24/B/03**

Tributary of : Sea - Shannon Estuary

OS Catchment No: 155

OS Grid Ref of Confluence: Q 998 448

Date(s) Surveyed: 16/9/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1988	1994	1996	1999	2002	2005	2008
0300	4	3	3-4	4	4	4	-
0400	-	-	-	-	-	2-3	3-4
0700	3	3	3	3	3-4	3-4	4

**Assessment:** Improved but still less than satisfactory ecological quality at one location (0400).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Br N of Kilgarvan [Ballyline R]	96022	141846	63	KY
0400	Br SW of Shrone	98342	141876	0	
0700	Gortnacooka Br	99290	143426	63	KY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	63	3	0	100	67	0	33	0	0	0	0
0400	N/A	0	0	0	0	0	0	0	0	0	0
0700	9	28	0	100	65	0	34	0	0	0	1

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BARNAKYLE**  
 Tributary of : 24M01 MAIGUE  
 OS Grid Ref of Confluence: R 481 529  
 Date(s) Surveyed: 2/10/2008

**24/B/05**  
 OS Catchment No: 155

Station Nos.	Biological Quality Ratings (Q Values)						
	1988	1994	1996	1999	2003	2006	2008
0300	-	3	3-4	3	3	3	3
0400	-	3	3-4	3-4	3-4	3-4	-
0500	4	-	-	-	-	-	-
0600	3-4	3	2-3	3	3	3	3

**Assessment:** Continuing unsatisfactory, with poor ecological quality at both locations, in this calcareous river.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Br SW of Kilpeacon Crossroads	156264	147695	65	LK
0400	Dooneen Br	154611	149862	65	LK
0500	Barnakyle Br	0	0	0	LK
0600	Br SE of Clarina	151064	153057	65	LK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	34	12	0	100	86	0	0	0	14	0	0
0400	20	1	0	100	61	0	0	0	39	0	0
0600	7	43	0	100	85	0	0	5	9	0	1

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BROADFORD STREAM**

**24/B/07**

Tributary of : 24B06 BUNOKE

OS Catchment No: 155

OS Grid Ref of Confluence: R 320 238

Date(s) Surveyed: 24/7/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1988	1993	1996	1999	2002	2005	2008
0300	4	4	4	4	4	4	-
0500	4	4	3	2-3	3	3-4	3-4

**Assessment:** Continuing with only moderate ecological status.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Br u/s Broadford Br	133235	121017	72	LK
0500	Lisnafulla Br	131932	123816	72	LK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	119	7	0	100	90	4	4	0	2	0	0
0500	87	12	0	100	91	3	2	3	1	0	0

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BUNOKE**

**24/B/06**

Tributary of : 24D02 DEEL (NEWCASTLEWEST)

OS Catchment No: 155

OS Grid Ref of Confluence: R 302 328

Date(s) Surveyed: 24/7/2008

Station Nos.	Biological Quality Ratings (Q Values)							
	1984	1989	1993	1996	1999	2002	2005	2008
0005	-	3	-	-	-	-	-	-
0025	-	3	2-3	2	3	3	3	3
0035	-	2-3	3	-	-	-	-	-
0050	-	2-3	3	2-3	3	3	3-4	-
0070	-	3	3	-	-	-	-	-
0100	-	3	3-4	3-4	3	3	3-4	4
0150	-	3	4	4	-	-	-	-
0200	3-4	3-4	4	4	4	4	3-4	4

**Assessment:** Improved with good ecological status at two of the three locations assessed but continuing with poor status at the uppermost one.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0005	Br just S of Glenmore	0	0	0	LK
0025	Br W of Glenquin	124392	126523	72	LK
0035	Br SW of Killeedy	0	0	0	LK
0050	Br NE of Cantogher	128180	125269	72	LK
0070	Second Br d/s 0050	0	0	0	LK
0100	Abacomusk Br	131643	124228	72	LK
0150	Br SW of Ahawilk	0	0	0	LK
0200	Bunoke Br	131879	128475	72	LK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0025	166	1	0	100	99	0	0	0	0	0	1
0050	99	8	0	100	88	8	4	0	0	0	0
0100	81	19	0	100	86	9	2	0	0	0	2
0200	55	45	0	100	85	6	3	1	4	0	1

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.



**Hydrometric Area 24 (2008)**

River and Code : **CAMOGE**  
 Tributary of : 24M01 MAIGUE  
 OS Grid Ref of Confluence: R 522 394  
 Date(s) Surveyed: 7/10/2008

**24/C/01**  
 OS Catchment No: 155

Station Nos.	Biological Quality Ratings (Q Values)									
	1976	1981	1984	1988	1993	1996	1999	2003	2006	2008
0100	-	3	3-4	3-4	3-4	3-4	4	3-4	3-4	-
0200	-	3-4	3-4	3-4	3-4	4	4	3-4	3-4	3-4
0250	-	3-4	3-4	3-4	4	3-4	4	3-4	-	-
0300	-	3-4	3-4	3-4	3-4	-	-	-	-	-
0400	-	4	3-4	3-4	3-4	3-4	3-4	3-4	4	4
0500	-	3-4	3-4	3-4	4	3-4	3-4	3-4	-	-
0600	4-5	4	4	4	3-4	3-4	3-4	3-4	4	4

**Assessment:** Satisfactory except in upper reach where ecological quality was again just moderate.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Cloghansoun Br	167600	141268	65	LK
0200	Longford Br	164528	143496	65	LK
0250	Nr Ballycullane	160346	142417	65	LK
0300	Cloghnamanagh Br	158844	141500	0	LK
0400	Gray's Br	157970	140345	65	LK
0500	Monaster Br	154902	140887	65	LK
0600	Cloghanduff Br	152484	139518	65	LK

**Site Altitude and Upstream Catchment Characteristics (where available):**

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	73	158	8	92	98	0	0	1	1	0	1
0200	70	202	6	94	97	0	0	1	2	0	0
0250	57	236	5	95	96	0	0	1	3	0	0
0400	49	244	5	95	96	0	0	1	3	0	0
0500	33	261	5	95	96	0	0	1	3	0	0
0600	24	265	5	95	96	0	0	1	3	0	0

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CHARLEVILLE STREAM**

**24/C/02**

Tributary of : 24M01 MAIGUE

OS Catchment No: 155

OS Grid Ref of Confluence: R 543 274

Date(s) Surveyed: 30/9/2008

Station Nos.	Biological Quality Ratings (Q Values)								
	1986	1988	1989	1994	1996	1999	2003	2006	2008
0200	-	-	-	3	3	2-3	3	3	3
0400	1	-	2-3	-	-	-	-	-	-
0500	2	2	2-3	2-3	2-3	2-3	2-3	2-3	2-3
0800	3	2	2-3	2-3	3	3	3	3	3

**Assessment:** No change. Continuing unsatisfactory with poor ecological status again recorded at all three locations. Sanitary material in river at 0500 and high Conductivity recorded at 0800. Also known as River Glen.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	New Line Br [Glen R]	153534	122380	73	CK
0400	Br S of Ballincolly	0	0	0	CK
0500	Br NW of Ballincolly	154136	125076	73	LK
0800	Just u/s Maigue R confl	154304	127653	73	LK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	109	6	0	100	83	0	0	17	0	0	0
0500	66	12	0	100	81	0	0	19	0	0	0
0800	56	105	5	94	92	0	0	3	4	0	1

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CLONSHIRE**  
 Tributary of : 24G05 GREANAGH  
 OS Grid Ref of Confluence: R 440 454  
 Date(s) Surveyed: 1/10/2008

**24/C/03**  
 OS Catchment No: 155

Station Nos.	Biological Quality Ratings (Q Values)							
	1988	1989	1993	1996	1999	2002	2006	2008
0200	4	-	3	-	-	-	-	-
0300	3-4	-	3	3	3	3	3	3
0600	3	-	3-4	3-4	3	3	-	-
0700	3	3	3	3	3	3	3	3
0710	1	3	3	3	3	3	3	-
0900	3-4	-	3-4	3	3	3	3-4	3

**Assessment:** Continuing unsatisfactory with poor ecological quality at the three locations.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br in Ballingarry	0	0	0	LK
0300	Br N of Ballingarry	141901	137567	65	LK
0600	Milltown Br	142179	141759	65	LK
0700	Drehidnaman Br (LHS)	142341	143934	65	LK
0710	Drehidnaman Br (RHS)	142341	143934	65	LK
0900	Tuogh Br	143201	146278	65	LK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	52	7	72	22	76	0	0	5	19	0	0
0600	25	26	28	68	80	0	2	1	17	0	0
0700	20	51	15	83	82	0	1	2	15	0	0
0710	20	51	15	83	82	0	1	2	15	0	0
0900	8	73	10	88	82	1	1	1	13	0	2

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

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River and Code : **CLOONLAHARD STREAM** **24/C/06**  
 Tributary of : 24O02 OWVANE (LIMERICK) OS Catchment No: 155d  
 OS Grid Ref of Confluence:  
 Date(s) Surveyed: 17/9/2008

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*Formerly West Branch of Owvane (Limerick) 24O02*

Station Nos.	Biological Quality Ratings (Q Values)				
	1994	1996	1999	2006	2008
0040	4	4	4	3	4

**Assessment:** Reversion to good ecological quality.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0040	Br u/s Cloonlahard Br	118127	143474	64	LK

River and Code : **DEEL (NEWCASTLEWEST)**

24/D/02

Tributary of : Sea - Shannon Estuary

OS Catchment No: 155

OS Grid Ref of Confluence: R 332 528

Date(s) Surveyed: 21/7/2008, 22/7/2008, 23/7/2008

Station Nos.	Biological Quality Ratings (Q Values)														
	1971	1975	1978	1980	1982	1984	1986	1989	1993	1996	1999	2002	2005	2007	2008
0100	1	1	1	3	3	3	2-3	3	3	3	3-4	3-4*	4	-	4
0200	4	4	3	3-4	3	3	3	3	3	3-4	3-4	4	4	-	4
0250	-	-	-	-	-	-	-	3	3	-	-	-	-	-	-
0300	3	3-4	3-4	3-4	3	3-4	3-4	3	3	3-4	3	3	3	-	3
0400	4	3-4	3-4	3-4	3	3-4	3-4	3	3	3-4	3-4	4	4	-	3-4
0450	-	-	-	-	-	-	-	3	3-4	-	-	-	-	-	-
0500	4	4	3-4	3-4	3-4	3	3-4	3-4	4	4	3-4	4	3-4	-	4
0600	3	3	3	3	3	3	2-3	3	3	2-3	2	2-3	2	3-4	3-4
0700	3	3	3	3	3	3	3	3	3	2-3	2-3	3	2-3	-	3
0800	3	2-3	3	3	3	2	3	3	3	3	3	3	3-4	-	4
0900	4	-	3	3-4	3	2-3	3-4	3	3	-	-	-	-	-	-
1000	4-5	4	3-4	4	3-4	3-4	4	3	3-4	3	3	3	3	-	3*
1100	4	-	4	3-4	3	3-4	4	4	3-4	3-4	3-4	3-4	3	-	3-4
1200	4-5	4	3	4	3-4	3-4	3-4	3-4	3-4	-	-	-	-	-	-
1300	4	4	3-4	4	3-4	3-4	3-4	3	3-4	3-4	3-4	3	3	-	3-4

**Assessment:** Some improvement with four locations reaching good status. However continuing unsatisfactory at the others, with only moderate and poor status, due to agricultural and municipal discharges. Drainage works at one site, Palatine Bridge (1000), resulted in the death and displacement of hundreds of freshwater mussels. The crayfish has returned to the Deel and is reproducing successfully at some locations.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Scart Br, Milford	141611	121322	73	CK
0200	Br 3.2 km d/s Milford Br	140118	123697	73	LK
0250	Accrour Br	0	0	0	LK
0300	Broken Br	136004	127029	72	LK
0400	Br nr Balliniska	132518	128606	72	LK
0450	Br 0.2 km d/s Bunoke R confl	0	0	0	LK
0500	0.8 km u/s Castlemahon Br	131806	130995	64	LK
0600	D/s Mahoonagh Br	131260	131413	64	LK
0700	Br nr Killaready	129910	132703	64	LK
0800	Grange Br	130787	135042	64	LK
0900	Br d/s Grange Br	0	0	0	LK
1000	Palatine Br	133489	138616	64	LK
1100	Rathkeale Br	136070	141409	64	LK
1200	Ford d/s Rathkeale Br	135547	141297	0	LK
1300	Kilcool Br	133766	143704	64	LK

***Hydrometric Area 24 (2008)***

*Site Altitude and Upstream Catchment Characteristics (where available):*

<b>Site No.</b>	<b>Alt</b>	<b>Area</b>	<b>Sil</b>	<b>Cal</b>	<b>Pasture</b>	<b>Forestry</b>	<b>Bogs</b>	<b>Urban</b>	<b>Misc Ag.</b>	<b>Water</b>	<b>Other</b>
0100	101	59	0	100	79	0	0	0	19	0	1
0200	92	68	0	100	81	0	0	0	17	0	1
0300	67	121	3	95	83	1	0	1	13	0	1
0400	55	152	3	95	83	1	0	1	13	0	1
0500	51	262	6	93	83	2	1	1	12	0	1
0600	50	262	6	93	83	2	1	1	12	0	1
0700	46	281	6	93	84	2	1	1	12	0	1
0800	43	366	4	95	83	2	1	2	10	0	1
1000	33	409	4	95	84	2	1	2	10	0	1
1100	31	439	5	94	83	2	1	2	11	0	1
1300	24	447	5	94	83	2	1	2	11	0	1

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DOONCAHA STREAM** 24/D/07  
 Tributary of : 24S02 SHANAGOLDEN STREAM OS Catchment No: 155  
 OS Grid Ref of Confluence: R 270 492  
 Date(s) Surveyed: 17/9/2008

*Formerly reported as the Middle Branch of the Shanagolden Stream*

Station Nos.	Biological Quality Ratings (Q Values)						
	1989	1994	1996	1999	2002	2006	2008
1000	2	2-3	2-3	2-3	3	3	3
1200	3	-	-	-	-	-	-

**Assessment:** Continuing moderately polluted (poor ecological quality). Formerly known as Middle Branch of Shanagolden Stream.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
1000	Br SW of Tiermore	126029	145473	64	LK
1200	Bartholemew's Br	0	0	0	LK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
1000	50	5	0	100	91	4	0	0	5	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **FLEMINGSTOWN STREAM**

**24/F/03**

Tributary of : 24L01 LOOBAGH

OS Catchment No: 155

OS Grid Ref of Confluence: R 638 263

Date(s) Surveyed: 29/9/2008

Station Nos.	Biological Quality Ratings (Q Values)					
	1994	1996	1999	2002	2006	2008
0500	4	4	4	4	4	4

**Assessment:** Continuing satisfactory with good ecological quality.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0500	Gotoon Br	164363	124660	73	LK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0500	109	15	55	45	88	10	2	0	0	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.



River and Code : **GLENCORBRY**  
 Tributary of : Sea - Shannon Estuary  
 OS Grid Ref of Confluence: R 131 475  
 Date(s) Surveyed: 16/9/2008

**24/G/03**  
 OS Catchment No: 155

Station Nos.	Biological Quality Ratings (Q Values)						
	1988	1994	1996	1999	2002	2005	2008
0200	-	3-4	4	3-4	4	3-4	-
0300	4	-	-	-	-	-	-
0400	4	3	3	3-4	3-4	3-4	3-4

**Assessment:** Continuing with just moderate ecological quality.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br d/s Br NE of Tullyleague	113297	144466	64	LK
0300	Br 2 km SE of Glin	0	0	0	LK
0400	Upstream Br, Glin	113099	147421	64	LK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	88	8	0	100	65	9	15	0	0	0	11
0400	6	26	0	100	77	3	12	1	1	0	6

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **GREANAGH**  
 Tributary of : 24M01 MAIGUE  
 OS Grid Ref of Confluence: R 463 477  
 Date(s) Surveyed: 1/10/2008

**24/G/05**  
 OS Catchment No: 155

Station Nos.	1988	1993	1996	1999	Biological Quality Ratings (Q Values)		
					2002	2006	2008
0300	3-4	-	-	-	-	-	-
0500	3-4	-	-	-	-	-	-
0600	3-4	3-4	3	3	3	3-4	3

**Assessment:** Continuing unsatisfactory, with poor ecological quality, at this site which is subject to tidal push-back.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Br SW of Finniterstown	0	0	0	LK
0500	Br WSW of Cummeen	0	0	0	LK
0600	Coolagh Br	144338	146349	65	LK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0600	7	84	9	90	81	2	1	1	14	0	2

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **LISMAKEERY STREAM**

**24/L/03**

Tributary of : Sea - Shannon Estuary

OS Catchment No: 155

OS Grid Ref of Confluence: R 324 520

Date(s) Surveyed: 17/9/2008

Station Nos.	Biological Quality Ratings (Q Values)					
	1993	1996	1999	2002	2006	2008
0600	3-4	3	3	3	3	3

**Assessment:** Poor ecological quality again recorded at this calcareous site.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0600	Br SE of Tomdeely	132323	150726	64	LK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0600	10	19	0	100	72	2	0	0	19	0	7

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **LOOBAGH**  
 Tributary of : 24M01 MAIGUE  
 OS Grid Ref of Confluence: R 545 278  
 Date(s) Surveyed: 29/9/2008

**24/L/01**  
 OS Catchment No: 155

Station Nos.	Biological Quality Ratings (Q Values)													
	1909	1971	1976	1978	1980	1982	1986	1988	1994	1996	1999	2002	2006	2008
0200	-	-	-	4	4	-	4	4	4	4	4	4	4	4
0300	-	5	4-5	3-4	4	4	4	4	4-5	4-5	4	4	4	-
0400	-	4	4-5	3-4	3-4	3-4	3-4	3-4	3	2-3	3	2	3-4	3-4
0500	-	4-5	4-5	3-4	3-4	3-4	3-4	3-4	4	3	3-4	3	4	-
0510	3	4-5	4-5	3-4	3-4	3-4	3-4	3-4	3	3	3-4	-	4	-
0600	-	4-5	4	3-4	3-4	3-4	3-4	4	4	3-4	4	4	4	4

**Assessment:** No change - satisfactory apart from downstream of Kilmallock.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Ballinanima Br	166554	124729	73	LK
0300	Riversfield Br	163147	126465	73	LK
0400	North Br, d/s Kilmallock	160670	128462	73	LK
0500	Br N of Kilbreedy (LHS)	157718	127816	73	LK
0510	Br N of Kilbreedy (RHS)	157718	127816	73	LK
0600	Garroose Br	155054	127455	73	LK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	112	16	88	12	62	25	0	2	0	0	11
0300	93	66	51	49	85	11	1	1	0	0	3
0400	80	81	42	58	86	9	1	1	1	0	2
0500	67	97	35	65	88	8	0	1	0	0	2
0510	67	97	35	65	88	8	0	1	0	0	2
0600	58	129	26	74	91	6	0	1	1	0	1

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **MAHORE**  
 Tributary of : 24C01 CAMOGE  
 OS Grid Ref of Confluence: R 688 385  
 Date(s) Surveyed: 7/10/2008

**24/M/04**  
 OS Catchment No: 155

Station Nos.	Biological Quality Ratings (Q Values)						
	1988	1993	1996	1999	2003	2006	2008
0300	3	3	-	-	-	-	-
0500	3-4	3	3	3	3-4	3-4	3-4
0700	3-4	3	3	3	3	-	-
0800	3-4	3	-	-	-	-	-
0900	3-4	3-4	3	3-4	3-4	3-4	3-4

**Assessment:** Continuing unsatisfactory with just moderate ecological quality at both locations.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Rodus Br	0	0	0	TY
0500	Ballynaveen Br	172861	135204	65	TY
0700	Hospital Br	170604	136254	65	LK
0800	Ford d/s Hospital Br	0	0	0	LK
0900	O'Carroll's Br	168953	137988	65	LK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0500	91	34	21	79	100	0	0	0	0	0	0
0700	85	41	17	83	100	0	0	0	0	0	0
0900	78	44	16	84	99	0	0	0	1	0	0

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **MAIGUE**  
 Tributary of : Sea - Shannon Estuary  
 OS Grid Ref of Confluence: R 456 568  
 Date(s) Surveyed: 1/10/2008, 30/9/2008

24/M/01

OS Catchment No: 155

Station Nos.	Biological Quality Ratings (Q Values)												
	1971	1974	1976	1978	1981	1984	1988	1994	1996	1999	2002	2006	2008
0010	-	-	-	-	-	-	3	-	-	-	-	-	-
0020	-	-	-	-	-	-	-	3	3	2-3	3	-	3
0050	-	-	-	-	-	-	3	3	3	3	3	3	3
0100	4-5	4	-	-	-	4	3-4	-	-	-	-	-	-
0200	3	3	4	3-4	-	3-4	3-4	3	3	3-4	3-4	-	-
0300	2-3	3	3	3	-	3-4	3-4	3	3	3	3-4	3-4	3-4
0400	4	4	4	4	-	3-4	3-4	3-4	3	3	3-4	3-4	4
0500	4-5	4	-	4	3-4	3-4	3-4	3-4	3	3-4	3-4	3-4	4
0600	4	4	-	4	3-4	3-4	3-4	-	-	-	-	-	-
0700	4	4	-	4	4	4	4	3-4	3	3	3-4	3-4	4
0800	-	-	-	4	4	3-4	3-4	-	-	-	-	-	-
0900	4-5	4	-	4	3-4	3-4	3-4	3-4	3	3	3-4	4	4

**Assessment:** Further improvement. Four sites having good ecological quality, one moderate and two poor.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0010	Coor Br	143730	125188	0	CK
0020	Belleisle Br	145115	126346	73	LK
0050	Fort Br	150644	125676	73	LK
0100	Fort Br East	151355	126685	0	LK
0200	Creggane Br	153423	127285	73	LK
0300	Br in Bruree	154954	130436	65	LK
0400	Howardstown Br	154059	132893	65	LK
0500	Br nr Rosstemple	153491	136621	65	LK
0600	Cherrygrove Br	152794	138505	65	LK
0700	Br in Croom	151274	141001	65	LK
0800	Br (Ford) nr Caherass Ho	150215	142690	0	LK
0900	Castleroberts Br	148000	143779	65	LK

**Site Altitude and Upstream Catchment Characteristics (where available):**

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0020	92	13	0	100	99	0	0	0	1	0	0
0050	66	65	6	93	92	0	0	1	6	0	1
0200	58	83	6	92	93	0	0	1	6	0	1
0300	50	242	17	83	92	3	0	2	2	0	1
0400	40	280	16	83	93	3	0	1	2	0	1
0500	29	477	20	80	93	2	0	1	3	0	1
0600	25	488	21	79	93	2	0	1	3	0	1
0700	19	770	16	84	94	1	0	1	3	0	1
0900	11	806	15	85	94	1	0	1	3	0	1

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **MORNINGSTAR**

**24/M/02**

Tributary of : 24M01 MAIGUE

OS Catchment No: 155

OS Grid Ref of Confluence: R 538 334

Date(s) Surveyed: 6/10/2008, 8/10/2008

Station Nos.	Biological Quality Ratings (Q Values)									
	1976	1981	1986	1988	1993	1996	1999	2002	2006	2008
0050	-	-	-	3-4	4	4	-	-	-	-
0100	-	4-5	3-4	3-4	-	-	-	-	-	-
0200	-	4	3-4	3-4	4	4	4	4	4	4
0250	-	-	-	3-4	-	-	-	-	-	-
0300	-	4	3	3-4	3-4	3	3-4	4	4	4
0350	-	3-4	3	3	3-4	-	-	-	-	-
0400	-	4	3	3-4	3-4	3-4	3-4	3-4	4	4
0500	-	4	4	3-4	3-4	4	4	3-4	4	4
0550	-	-	-	3-4	-	-	-	-	-	-
0600	-	4	3-4	3-4	4	4	4	3-4	4	3-4
0630	-	-	-	3-4	-	-	-	-	-	-
0650	-	-	-	-	-	3-4	4	3-4	-	-
0700	4	3-4	4	3-4	3-4	-	-	-	-	-
0800	-	3-4	4	3-4	3-4	4	3-4	3-4	4	4

**Assessment:** Satisfactory, with good ecological quality, except for downstream of Bruff where only moderate status.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Br NE of Ballyfroota	0	0	0	LK
0100	Br SE of Pinker's Cross	0	0	0	LK
0200	Aughavoona Br	174282	128150	73	LK
0250	Br u/s Ballynahinch Br	0	0	0	LK
0300	Ballinahinch Br	170152	128666	73	LK
0350	Elton Br	0	0	0	LK
0400	Gormanstown Br	166505	132400	65	LK
0500	Ballyvolane Br	165219	135320	65	LK
0550	Nr Vicarage, u/s Bruff	0	0	0	LK
0600	Br 1.5 km d/s Bruff	161494	136657	65	LK
0630	Br d/s Camas Br	0	0	0	LK
0650	SW of Carrigeen	159083	136451	65	LK
0700	Athlaccá Br	0	0	0	LK
0800	Br 2 km d/s Athlaccá	154361	133544	65	LK

***Hydrometric Area 24 (2008)***

*Site Altitude and Upstream Catchment Characteristics (where available):*

<b>Site No.</b>	<b>Alt</b>	<b>Area</b>	<b>Sil</b>	<b>Cal</b>	<b>Pasture</b>	<b>Forestry</b>	<b>Bogs</b>	<b>Urban</b>	<b>Misc Ag.</b>	<b>Water</b>	<b>Other</b>
0200	118	24	86	14	85	4	0	1	8	0	2
0300	108	40	64	36	88	4	2	1	5	0	1
0400	86	62	44	56	87	3	1	0	8	0	1
0500	73	73	37	63	89	2	1	0	7	0	1
0600	57	99	28	72	90	2	1	1	6	0	1
0650	50	117	25	75	92	1	1	1	5	0	1
0800	40	135	22	78	93	1	1	1	4	0	1

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.



River and Code : **OWVANE (LIMERICK)**

24/O/02

Tributary of : Sea - Shannon Estuary

OS Catchment No: 155

OS Grid Ref of Confluence: R 192 498

Date(s) Surveyed: 16/9/2008, 17/9/2008

Station Nos.	1971	1975	1979	1986	1988	1994	Biological Quality Ratings (Q Values)				
							1996	1999	2002	2006	2008
0050	-	-	-	-	-	4	-	-	-	-	-
0070	-	-	-	-	-	-	-	4-5	4	4	4
0075	-	-	-	-	-	3-4	3-4	4	4	4	4
0090	-	-	-	-	4	4	4	4	4	4	4
0100	5	4-5	4-5	4-5	3-4	-	-	-	-	-	-
0120	-	-	-	-	-	4	3-4	4	3-4	-	-
0200	5	4-5	4-5	4	3-4	4	3-4	4	4	4	4

**Assessment:** Satisfactory, with good ecological quality, at all locations examined in 2008. Also known as White River.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	0.1km u/s confl with Main Channel	0	0	0	
0070	Br S of Gortadroma	122260	143136	64	LK
0075	Br SW of Gortadroma	121672	143159	64	LK
0090	Br u/s Ballyhahill Br	120171	145841	64	LK
0100	Ballyhahill Br	0	0	0	LK
0120	0.5km d/s Ballyhahill Br	119348	146397	64	LK
0200	Br u/s (SE of) Loughill	119326	149587	64	LK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0070	105	14	0	100	47	24	15	0	3	0	12
0075	103	16	0	100	46	21	16	2	4	0	10
0090	67	24	0	100	47	19	15	1	5	0	13
0120	52	52	0	100	41	13	24	1	3	0	19
0200	7	70	0	100	53	9	18	0	3	0	17

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **SHANAGOLDEN STREAM**

**24/S/02**

Tributary of : Sea - Shannon Estuary

OS Catchment No: 155

OS Grid Ref of Confluence: R 270 500

Date(s) Surveyed: 17/9/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1989	1994	1996	1999	2002	2006	2008
1700	-	4	3-4	3	3	4	4
1800	3-4	-	-	-	-	-	-
1900	2-3	-	-	-	-	-	-
2000	3	3-4	4	4	3-4*	4	4

**Assessment:** Again satisfactory, with good ecological quality, at both locations.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
1700	Br S of Shanagolden	125088	146370	64	LK
1800	Br SE of Shanagolden	0	0	0	LK
1900	1.3km d/s 1800	0	0	0	LK
2000	Br NW of Stokesfield	126981	149371	64	LK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
1700	40	5	0	100	69	8	8	0	15	0	0
2000	3	31	0	100	85	2	2	2	6	0	3

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **TARBERT STREAM**

**24/T/01**

Tributary of : Sea - Shannon Estuary

OS Catchment No: 155

OS Grid Ref of Confluence: R 071 477

Date(s) Surveyed: 16/9/2008

Station Nos.	Biological Quality Ratings (Q Values)					
	1994	1996	1999	2002	2005	2008
0100	3-4	3	3	3	3	4

**Assessment:** Satisfactory, with good ecological quality, for the first time since surveys began.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	(West) Br in Tarbert	106595	147753	64	KY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	6	8	0	100	90	0	0	3	4	0	2

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

**SHIRBD: HYDROMETRIC AREA NO. 24**

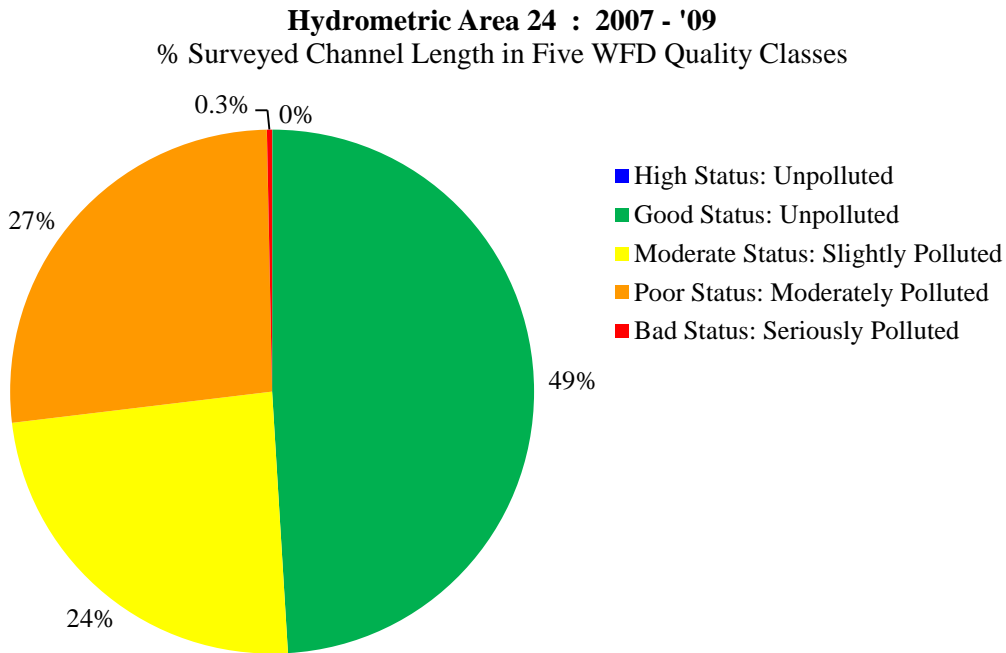
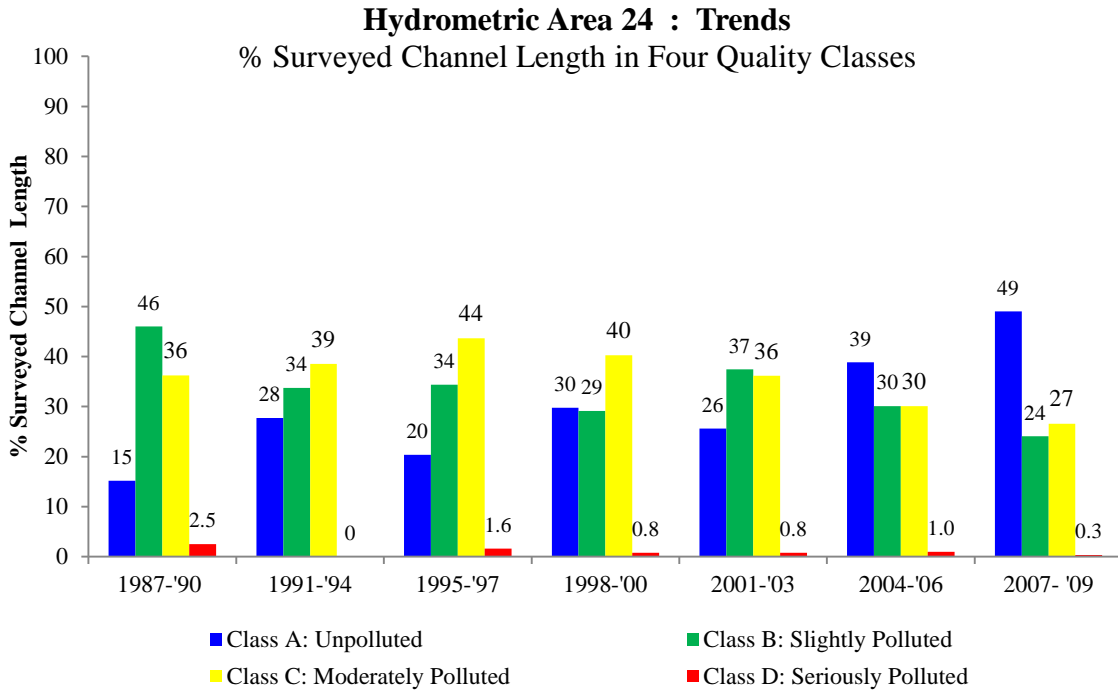
The baseline rivers showing the channel length surveyed (km) and the estimated channel length in four biological quality classes:- A - Unpolluted, B - Slightly polluted/eutrophic, C - Moderately polluted and D - Seriously polluted. Data from biological surveys in period 2007-2009.

Channel Length (km) in Class			A	A	B	C	D	Total
WFD Quality Class			High	Good	Moderate	Poor	Bad	
River Name	Year	Code						
Ahacronane	2008	24A01	0.0	0.0	0.0	8.5	0.0	8.5
Ahavarraga Stream	2008	24A02	0.0	0.5	0.0	4.0	1.0	5.5
Arra	2008	24A04	0.0	4.5	0.0	1.5	0.0	6.0
Ballylongford	2008	24B03	0.0	6.5	2.0	0.0	0.0	8.5
Barnakyle	2008	24B05	0.0	0.0	0.0	14.0	0.0	14.0
Broadford Stream	2008	24B07	0.0	3.5	1.0	0.0	0.0	4.5
Bunoke	2008	24B06	0.0	7.5	3.5	2.0	0.0	13.0
Camoge	2008	23C01	0.0	14.5	13.5	0.0	0.0	28.0
Charleville Stream	2008	24C02	0.0	0.0	0.0	6.0	0.0	6.0
Clonshire	2008	24C03	0.0	0.0	0.0	13.0	0.0	13.0
Cloonlahard Stream	2008	24C06	0.0	6.5	0.0	0.0	0.0	6.5
Deel (Newcastlewest)	2008	2D02	0.0	21.5	23.0	7.0	0.0	51.5
Dooncaha Stream	2008	24D07	0.0	0.0	0.0	5.5	0.0	5.5
Flemingstown Stream	2008	24F03	0.0	6.5	0.0	0.0	0.0	6.5
Glencorbry	2008	24G03	0.0	0.0	4.5	0.0	0.0	4.5
Greanagh	2008	24G05	0.0	0.0	0.0	4.0	0.0	4.0
Lismakeery Stream	2008	24L03	0.0	0.0	0.0	7.0	0.0	7.0
Loobagh	2008	24L01	0.0	18.0	2.0	0.0	0.0	20.0
Mahore	2008	24M04	0.0	0.0	12.0	0.0	0.0	12.0
Maigue	2008	24M01	0.0	16.0	8.5	11.0	0.0	35.5
Morningstar	2008	24M02	0.0	27.5	5.5	0.0	0.0	33.0
Owvane (Limerick)	2008	24O02	0.0	13.0	0.0	0.0	0.0	13.0
Shanagolden Stream	2008	24S02	0.0	6.5	0.0	0.0	0.0	6.5
Tarbert Stream	2008	24T01	0.0	1.5	0.0	0.0	0.0	1.5
Total Length (km) surveyed this cycle	2008		0.0	154.0	75.5	83.5	1.0	314.0
Adjustments (km) (See below)*			0.0	0.0	0.0	0.0	0.0	0.0
<i>Percentages</i>			0.0	49.0	24.0	26.6	0.3	100.0
<b>Channel Length (km) in Class</b>			<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>Total</b>	
Baseline : Current Adjusted Status (km)	2007 - '09		154.0	75.5	83.5	1.0	314.0	
<i>Percentages</i>			49.0	24.0	26.6	0.3	100.0	
Baseline: Previous Unadjusted Status (km)**	2004 - '06		122.0	94.5	94.5	3.0	314.0	
<i>Percentages</i>			38.9	30.1	30.1	1.0		
Changes since Previous Survey (km )			32.0	-19.0	-11.0	-2.0	0.0	

\*Adjustments: Deduct the 'extras' (+), add the 'shortages' (-).

\*\* Clabby *et al.*, 2008

<sup>1</sup> Rivers not previously included in the National Statistics.



**HYDROMETRIC AREA 25 (Shannon Lower: Partial Survey)**

*Partial Survey Only, Balance of Survey in 2009*

ANNAGH (TIPPERARY)	25A02
ARDCRONY STREAM	25A06
ARDGREGANE STREAM	25A04
BALLINTOTTY	25B01
BALLYFINBOY	25B02
BALLYNACARRIG	25B18
BALLYNAGRENIA STREAM	25B16
BALLYQUIVEEN STREAM	25B30
BILBOA	25B03
BOORA	25B08
BREAGHMORE	25B12
# BROSNA	25B09
BUNOW	25B25
CAHERNAHALLIA	25C01
CAMCOR	25C02
CAPPAWHITE STREAM	25C10
CARRIGAHORIG STREAM	25C16
CAUTEEN	25C04
CLAREEN STREAM	25C13
CLODIAGH (TULLAMORE)	25C06
DEAD	25D01
DOLLA	25D08
DOON STREAM	25D03
DOONANE	25D04
DYSART STREAM (LOUGH ENNELL)	25D05
GAGEBOROUGH	25G01
GLASHACLOONARAVEELA	25G02
GLENFELLY STREAM *	25G21
GOLDEN GROVE STREAM	25G06
GORRAGH	25G09
GORTNAGERAGH	25G03
GORTNAGOWNA	25G13
GROODY	25G05
INCH (BILBOA) *	25I01
KEELOGE STREAM *	25K14
KILCOMIN STREAM *	25K15
KILFADDA CASTLE STREAM *	25K07
KILLEENGARRIFF	25K02
KILMASTULLA	25K04
LITTLE (CLOGHAN)	25L01
LITTLE BROSNA	25L02
LORRHA STREAM	25L05
MOATE STREAM	25M05
MONAGHANSTOWN	25M01
MULKEAR (LIMERICK)	25M04
NENAGH	25N01
NEWPORT (TIPPERARY)	25N02

**HYDROMETRIC AREA 25 (Shannon Lower: Partial Survey)**

*Partial Survey Only, Balance of Survey in 2009*

NEWTOWN	25N03
OLLATRIM	25O01
PALLAS	25P01
POLLAGH STREAM (BROSNA)	25P05
RAPEMILLS	25R01
SHANNON (Lower)	25S01
#SHINRONE STREAM	25S11
SILVER (KILCORMAC)	25S02
SILVER (TULLAMORE)	25S03
SILVERMINES VILLAGE STREAM *	25S10
SMALL (TIPPERARY)	25S05
SYONAN CASTLE STREAM	25S04
TOEM STREAM	25T05
TULLAMORE	25T03
YELLOW (KILMASTULLA)	25Y01
YOUGHAL (TIPPERARY)	25Y02

# indicates rivers having seriously polluted stretches at time of this survey.

- \* GLENFELLY STREAM Formerly West Branch of Camcor River 25C02
- \* INCH (BILBOA) Formerly Inch Branch of Bilboa River 25B03
- \* KEELOGE STREAM Formerly Keeloge Branch of Little Brosna River 25L02
- \* KILCOMIN STREAM Formerly Kilcomin Branch of Little Brosna
- \* KILFADDA CASTLE STREAM Formerly reported as: Carrigahorrig Stream 25C16 (q.v.).
- \* SILVERMINES VILLAGE STREAM Kilmastulla 0040 to 0100 incl.

River and Code : **ANNAGH (TIPPERARY)**

25/A/02

Tributary of : 25K02 KILLEENGARRIFF

OS Catchment No: 155

OS Grid Ref of Confluence: R 685 578

Date(s) Surveyed: 17/9/2008, 18/9/2008

Station Nos.	Biological Quality Ratings (Q Values)								
	1979	1983	1987	1993	1996	1999	2002	2005	2008
0040	-	-	-	5	5	4-5	4-5	4	4
0050	-	-	5	-	-	-	-	-	-
0100	5	5	5	4-5	4-5	4-5	4-5	4-5	4
0160	-	-	5	-	-	-	-	-	-
0200	5	5	5	5	4-5	4-5	4	4-5	4-5
0250	-	-	5	-	-	-	-	-	-
0300	5	5	5	5	4-5	4-5	4	4-5	4
0400	-	-	5	-	-	-	-	-	-
0500	-	-	-	4	4	4-5	4-5	-	-

**Assessment:** The Annagh (Tipperary) River remains in a satisfactory condition however the macroinvertebrate fauna indicated a slight decline in quality from high to good status at Toorenbrien bridge (0100) and at Ahacrossaun bridge (0300) when sampled in August 2008. An increase in siltation on the riverbed substratum was noted at all stations examined but even more so at Station 0300.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0040	Br u/s Inchinmathea Br	184941	162359	59	TY
0050	Inchinamathea Br	0	0	59	TY
0100	Toorenbrien Br	181438	160210	59	TY
0160	Ford NW of Vauchluce Cott	0	0	65	LK
0200	Charlotte's Br	175109	159182	65	LK
0250	Clare Br	0	0	65	LK
0300	Ahacrossaun Br	171824	159275	65	LK
0400	Ford d/s Ahacrossaun Br	0	0	65	LK
0500	100m u/s Annagh Br	168447	158106	65	LK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0040	244	4	100	0	8	23	24	0	0	0	46
0100	179	22	100	0	39	19	21	0	0	0	22
0200	135	52	100	0	32	23	19	0	1	0	25
0300	37	65	100	0	41	19	15	0	1	0	23
0500	29	128	79	21	48	10	14	0	6	0	22

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.



River and Code : **ARDCRONY STREAM**

**25/A/06**

Tributary of : 25B02 BALLYFINBOY

OS Catchment No: 155

OS Grid Ref of Confluence: R 903 935

Date(s) Surveyed: 4/9/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1987	1993	1996	1999	2002	2005	2008
0500	4	3-4	3-4	4-5	3-4	3	3-4

**Assessment:** The lack of sensitive macroinvertebrate fauna coupled with excessive algal and macrophyte growth observed at station 0500 on the Ardcroney stream continues to indicate unsatisfactory ecological conditions in 2008.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0500	Br u/s Ballyfinboy R	190266	193296	53	TY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0500	51	31	0	100	64	0	0	1	33	0	3

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **ARDGREGANE STREAM**

**25/A/04**

Tributary of : Lough Derg

OS Catchment No: 155

OS Grid Ref of Confluence: R 826 794

Date(s) Surveyed: 15/9/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1987	1993	1996	1999	2002	2005	2008
0100	-	-	3	3-4	3*	3-4	-
0200	3	3	-	-	-	-	-
0400	3	3	3-4	4	3-4*	3-4	3-4

**Assessment:** A slight improvement in the macroinvertebrate faunal diversity was noted in 2008 but again the lack of sensitive fauna indicated unsatisfactory ecological conditions at Crannagh Bridge (0400) with heavy siltation also noted.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br S of Grallagh	183334	178316	59	TY
0200	Hogan's Pass Br	182900	180400	59	TY
0400	Crannagh Br W of Ardgregane	181180	181404	59	TY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	46	11	26	74	90	0	0	0	4	0	6
0400	33	25	33	67	83	0	0	1	13	0	3

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BALLINTOTTY**

**25/B/01**

Tributary of : 25O01 OLLATRIM

OS Catchment No: 155

OS Grid Ref of Confluence: R 895 790

Date(s) Surveyed: 10/9/2008

Station Nos.	Biological Quality Ratings (Q Values)								
	1981	1984	1986	1987	1988	1993	2002	2005	2008
0040	-	-	-	-	-	4	-	-	-
0100	3-4	-	4	4	-	3	3	3-4	3-4
0110	-	1	3-4	2	3	-	-	-	-
0200	3-4	3	3	3	-	-	-	-	-
0240	-	-	-	-	-	3	3-4	3-4	-
0300	3-4	3	4-5	3-4	-	3	3-4	3-4	3-4

**Assessment:** The dominance of pollution tolerant macroinvertebrate taxa continues to indicate less than satisfactory ecological conditions at the two locations surveyed in 2008. Excessive weed growth and siltation were also noted at Consedine Bridge (0300).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0040	Br NW of Moanmore	0	0	59	
0100	Phillabeen Br	197074	177638	59	TY
0110	Br 0.1km d/s Phillabeen Br	0	0	59	
0200	Br NE of Coolderry	0	0	59	TY
0240	Br SE of Norwood	192720	177850	59	
0300	Consedine Br (u/s Ollatrim R Confl)	189463	179072	59	TY

River and Code : **BALLYFINBOY**

**25/B/02**

Tributary of : Lough Derg

OS Catchment No: 155

OS Grid Ref of Confluence: R 830 982

Date(s) Surveyed: 4/9/2008, 5/9/2008, 15/9/2008, 29/10/2008, 30/10/2008

Station Nos.	Biological Quality Ratings (Q Values)											
	1971	1974	1978	1982	1984	1987	1993	1996	1999	2002	2005	2008
0070	-	-	-	-	-	4-5	4	3-4	3-4	3-4	3-4	3-4
0100	5	4	4	4	3	3	3-4	3	3-4	3-4*	4	-
0150	-	-	-	-	-	3	-	-	-	-	-	-
0200	-	-	-	4-5	3	3-4	-	-	-	-	-	-
0250	-	-	-	-	-	-	-	-	-	4	4-5	3-4
0300	-	-	4-5	4-5	3-4	4-5	4	3	4	-	-	3-4
0400	5	4-5	4-5	4	-	4	4	-	4	3-4	3-4	3
0550	-	-	-	-	-	3-4	3-4	3	3-4	3	3	-
0600	4	4	3-4	4	4	3-4	4	3	3-4	3-4	3-4	3-4
0700	5	3-4	4	4-5	4	4	3-4	3	3-4	4	4	-
0800	4	4	4	4-5	-	4	3-4	3	4	3-4	3-4	4

**Assessment:** The Ballyfinboy River was in a generally unsatisfactory condition when surveyed in 2008. A decline in ecological quality was noted at stations 0250, 0300 and 0400 with only a slight improvement noted at station 0800. Extreme calcification of the substratum was again noted at stations 0400 and 0800. Sewage and agricultural sources suspected.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0070	Br NW of Ballintemple Ho	200094	184891	59	OF
0100	Townfield Br	198118	186923	59	OF
0150	Knockearl Br	0	0	59	OF
0200	Br W of Cloughjordan	0	0	59	TY
0250	Br S of Modreeny	195970	188859	0	TY
0300	Modreeny Br North	195864	189443	59	TY
0400	Ballynavin Br	195847	189456	59	TY
0550	Br in Borrisokane	191541	194098	53	TY
0600	Br nr Ballyfinboy Castle	189699	193701	53	TY
0700	Ballyhooney Br	186249	196011	53	TY
0800	Br just u/s L Derg	183804	198048	53	TY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0070	99	2	0	100	64	0	0	0	31	0	5
0100	86	23	0	100	72	4	7	0	14	0	3
0300	80	36	0	100	70	3	4	2	18	0	3
0400	80	36	0	100	70	3	4	2	18	0	3
0550	54	73	0	100	61	1	6	1	25	0	6
0700	43	170	2	98	63	2	3	1	26	0	5
0800	33	174	2	98	64	2	3	1	26	0	5

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

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River and Code : **BALLYNACARRIG** **25/B/18**  
 Tributary of : 25S02 SILVER (KILCORMAC) OS Catchment No: 155  
 OS Grid Ref of Confluence: N 247 130  
 Date(s) Surveyed: 27/8/2008

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Station Nos.	Biological Quality Ratings (Q Values)						
	1987	1993	1996	1999	2002	2005	2008
0100	4	4	3-4	4	3-4	3-4	3-4

**Assessment:** As in 2005, the lower reaches of the Ballynacarrig River (0100) were in a less than satisfactory ecological condition when surveyed in 2008. Heavy siltation and excessive weed growth were evident with low dissolved oxygen concentrations also noted.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br u/s Silver R confl	227604	213682	54	LS

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	84	12	31	69	67	12	3	3	8	0	7

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BALLYNAGRENIA STREAM**

**25/B/16**

Tributary of : 25G01 GAGEBOROUGH

OS Catchment No: 155

OS Grid Ref of Confluence: N 252 373

Date(s) Surveyed: 18/8/2008, 20/8/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1987	1993	1996	1999	2002	2005	2008
0400	3	3	2	3	3/0	3	3-4*
0600	4	4	3	3-4	3	3-4	4

**Assessment:** A slight improvement was noted at both locations surveyed in 2008, however the Ballynagrenia Stream continues to be in an unsatisfactory ecological condition in the upper reaches. Excessive siltation was noted at both stations.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0400	Br S of Rose Mount	223309	242080	48	MH
0600	New Br. (on N6)	224703	238696	48	OF

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0400	74	8	0	100	89	0	0	0	4	0	7
0600	61	21	0	100	91	0	3	0	3	0	2

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BALLYQUIVEEN STREAM**

**25/B/30**

Tributary of : 25N01 NENAGH

OS Catchment No: 155

OS Grid Ref of Confluence: R 915 740

Date(s) Surveyed: 11/9/2008

Station Nos.	Biological Quality Ratings (Q Values)					
	1993	1996	1999	2002	2005	2008
0300	3-4	3-4	3-4	4	4	4

**Assessment:** The macroinvertebrate fauna indicated satisfactory ecological conditions when surveyed in 2008. Some signs of enrichment were evident however with increasing occurrence of pollution tolerant macroinvertebrate species and excessive macrophyte growth evident.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Br u/s Nenagh R confl	191082	173522	59	TY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	81	6	89	11	84	11	5	0	0	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BILBOA**  
 Tributary of : 25D01 DEAD  
 OS Grid Ref of Confluence: R 763 478  
 Date(s) Surveyed: 22/9/2008, 23/9/2008

**25/B/03**  
 OS Catchment No: 155

Station Nos.	Biological Quality Ratings (Q Values)									
	1979	1983	1987	1989	1993	1996	1999	2002	2005	2008
0004	-	-	-	4	3-4	4	3	-	-	-
0008	-	-	-	4	4	3-4	4	4	-	-
0010	-	-	4	-	3-4	3-4	3-4	3-4	4	4-5*
0020	-	-	4-5	-	3-4	-	-	-	-	-
0050	-	-	-	-	4-5	4-5	-	-	-	-
0080	-	-	5	-	5	4-5	5	4-5	4-5	4-5
0100	5	5	5	-	-	-	-	-	-	-
0200	5	5	5	-	-	-	-	-	-	-
0300	5	5	5	-	5	4	4-5	3-4	4	4
0400	5	5	5	-	-	-	-	-	-	-
0500	-	-	5	-	4-5	4	-	3-4*	3-4	3-4

**Assessment:** The macroinvertebrate fauna indicated that the Bilboa River was in a satisfactory ecological condition in its upper reaches (stations 0010, 0080 and 0300) when surveyed in 2008 however the lower reaches (0500) continues to show symptoms of eutrophication with excessive weed growth, heavy siltation and an unbalanced macroinvertebrate fauna. Excessive siltation was however evident at all locations sampled, restriction of livestock access would help alleviate this problem.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0004	Br SE of Loughbrack	191700	158600	66	TY
0008	Br u/s Main R confl	188856	158561	66	TY
0010	Br in Kilcommon	190189	160111	59	TY
0020	Anglesey Br	0	0	66	TY
0050	SE of Cappaharoe	185166	157513	66	LK
0080	Bilboa Br u/s Blackboy Br	181596	151911	66	LK
0100	Blackboy Br	0	0	65	LK
0200	Doon Rd Br Cappamore	0	0	65	LK
0300	Br 1.5 km d/s Cappamore	177975	150508	65	LK
0400	New Br u/s Dead R	0	0	65	LK
0500	Pullagh u/s Dead R	177673	147863	65	LK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0008	189	24	100	0	66	6	16	0	2	0	11
0010	200	6	100	0	74	6	14	0	4	0	2
0050	155	49	100	0	45	7	14	0	19	0	15
0080	79	85	100	0	42	9	11	0	25	0	13
0300	52	120	95	5	48	8	10	0	23	0	11
0500	45	122	93	7	49	8	10	0	22	0	11

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.



River and Code : **BOORA**

**25/B/08**

Tributary of : 25B09 BROSNA

OS Catchment No: 155

OS Grid Ref of Confluence: N 164 242

Date(s) Surveyed: 21/8/2008

Station Nos.	Biological Quality Ratings (Q Values)								
	1984	1987	1988	1993	1996	1999	2002	2005	2008
0100	3	3	-	3-4	4	3	3-4*	3-4	-
0200	-	2/0	4	3-4	4	3-4	3-4*	4	3

**Assessment:** A decline in ecological quality was noted in the lower reaches of the Boora Stream (0200) when surveyed in 2008. The lack of any sensitive macroinvertebrates, coupled with heavy siltation and low dissolved oxygen content indicated moderate pollution.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Gorteen Br	216573	220295	48	OF
0200	Aqueduct u/s Brosna R	216756	223679	48	OF

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	49	27	0	100	33	0	20	0	21	0	27
0200	46	40	0	100	39	0	23	0	15	0	23

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BREAGHMORE**  
 Tributary of : 25C02 CAMCOR  
 OS Grid Ref of Confluence: N 142 056  
 Date(s) Surveyed: 26/8/2008, 28/8/2008

**25/B/12**  
 OS Catchment No: 155

Station Nos.	Biological Quality Ratings (Q Values)							
	1987	1989	1993	1996	1999	2002	2005	2008
0020	-	5	5	5	4-5	4	4-5	4
0080	-	5	4	4	3-4	4	4-5	4-5
0100	5	-	5	5	4-5	5	5	4
0200	5	-	-	-	-	-	-	-
0400	5	-	4-5	4-5	4	4	4	4-5

**Assessment:** The Breaghmore was in a highly satisfactory ecological condition over most of its course when surveyed in 2008. An unwelcome decline however at Roscmore Bridge (0020) and Aghagarty Bridge (0100) from high to good status warrants further attention and protection. The lack of a vegetated buffer zone and recent heavy rains has contributed to the bank erosion and heavy siltation noted at Roscmore Bridge. A welcome improvement from good to high ecological status was noted in the lower reaches at Breaghmore Bridge (0400). This river deserves special protection such as restricting cattle access and promoting vegetated buffer zones in order to conserve its high quality status.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0020	Roscmore Br	216500	197700	54	OF
0080	Just u/s Main R confl	214777	202270	54	OF
0100	Aghagurty Br	217100	200900	54	OF
0200	Ford u/s Loftus Br	0	0	54	OF
0400	Breaghmore Br	214552	203568	54	OF

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0020	158	7	100	0	59	13	17	0	0	0	12
0080	86	37	92	8	50	21	16	0	9	0	5
0100	124	17	100	0	29	32	26	0	8	0	5
0400	76	40	86	14	51	19	14	0	11	0	4

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BROSNA**

**25/B/09**

Tributary of : 25S01 SHANNON (Lower)

OS Catchment No: 155

OS Grid Ref of Confluence: N 022 187

Date(s) Surveyed: 8/10/2008, 9/10/2008, 13/10/2008, 16/10/2008,  
18/8/2008

Station Nos.	Biological Quality Ratings (Q Values)												
	1971	1974	1978	1982	1984	1987	1993	1996	1999	2002	2005	2007	2008
0003	-	-	-	-	4-5	4	3-4	-	-	-	-	-	-
0004	-	-	-	-	2-3	3	-	-	-	-	-	-	-
0005	-	-	-	-	3	3-4	3	3	3-4	3	3-4	-	3
0006	-	-	-	-	3-4	3	3	3	3	3	3-4	-	3
0010	-	-	-	-	3-4	2-3	3	-	-	-	-	-	-
0040	-	-	-	-	3-4	2-3	3	3	3	3	3	-	3
0100	1	1	1-2	1-2	2-3	2	2-3	3	2-3	2	1-2	2	2
0200	4-5	4	3-4	4	4	4	3-4	3-4	3	3-4	3-4	-	-
0250	-	-	-	-	4	4-5	3-4	3-4	4	3-4	3	-	3-4
0400	4-5	4-5	4-5	4	4-5	4	3-4	3-4	4	3	3	-	-
0420	-	-	-	-	4-5	4-5	-	-	-	-	-	-	-
0450	-	-	-	-	-	4	4	3-4	4	3	3-4	-	3-4
0500	4-5	4-5	4-5	-	-	4	4	3-4	3-4	3-4	3	-	3-4
0600	3-4	4	4	4	4	4	4	-	3-4	-	-	-	3-4
0700	4	4	-	4-5	4	4-5	3-4	3	3-4	3-4	4	-	-
0760	-	-	-	-	-	4	3-4	4	4	4	3-4	-	3-4
0800	4-5	4-5	4	-	4	5	3*	4	3	3-4*	4-5	-	-
0950	-	-	-	-	4-5	4-5	4	4	4	4-5	4-5	-	4
1000	4-5	5	4-5	4	3-4	4-5	3-4	3-4	3-4	3	3	-	-

**Assessment:** The overall unsatisfactory ecological condition of the Brosna River in 2008 is reflected in the fact that only one (Ferbane Bridge) of the ten surveyed sites reached a satisfactory quality standard. A decline in ecological quality was noted at stations 0005 and 0006 upstream of Mullingar with moderate pollution, while station 0040 in Mullingar also remained moderately polluted. Serious pollution continues at Butlers Bridge (0100) with low dissolved oxygen concentrations noted (57% saturation) at time of survey. However a slight improvement was noted at Ballynagore Bridge (0250) and Lahinch Bridge (0500). The macroinvertebrate fauna at Bolart Bridge (0600) and the bridge NW of Pollagh (0760) indicated slightly polluted conditions. In summary the Brosna river was in a very unsatisfactory condition when surveyed in 2008 with serious pollution continuing below Mullingar sewage works and only one station surveyed indicating a satisfactory quality.

*Hydrometric Area 25 (2008)*

<b>Station No.</b>	<b>Stations Location</b>	<b>National X</b>	<b>Grid Ref. Y</b>	<b>Discovery Series No.</b>	<b>County Code</b>
0003	1.1 km d/s L Owel	0	0	41	MH
0004	1.5 km d/s L Owel	0	0	41	MH
0005	Br SW of Culleen Beg	244200	255400	41	MH
0006	Br d/s L Sheever	245600	254800	41	MH
0010	Mullingar: Canal Crossing	0	0	41	MH
0040	Mullingar: Indust Est Br	243800	252400	41	MH
0100	Butler's Br	241900	250200	41	MH
0200	Newell's Br	238329	242309	48	MH
0250	Ballynagore Br	235605	239602	48	MH
0400	Just d/s Kilbeggan Br	233189	235498	48	MH
0420	Glebe Ho d/s Kilbeggan	0	0	48	MH
0450	Br near Lismoynty	229543	233204	48	OF
0500	Lehinch u/s Clara	228270	232401	48	OF
0600	Bolart Br	223411	232488	48	OF
0700	Ballycumber Br	221137	230646	48	OF
0760	0.5km NW of Pollagh	219000	225694	48	OF
0800	Br nr Kilcolgan	214922	223732	48	OF
0950	Ferbane Br	211508	224407	47	OF
1000	Bellmount d/s Ferbane	207366	222240	47	OF

*Site Altitude and Upstream Catchment Characteristics (where available):*

<b>Site No.</b>	<b>Alt</b>	<b>Area</b>	<b>Sil</b>	<b>Cal</b>	<b>Pasture</b>	<b>Forestry</b>	<b>Bogs</b>	<b>Urban</b>	<b>Misc Ag.</b>	<b>Water</b>	<b>Other</b>
0040	88	4	0	100	48	0	0	52	0	0	0
0200	84	157	0	100	72	2	1	5	6	8	6
0250	80	185	0	100	71	2	2	4	8	7	6
0400	67	220	0	100	72	2	2	4	8	6	6
0450	62	252	0	100	73	2	2	4	9	5	5
0500	57	260	0	100	73	2	2	4	9	5	5
0600	49	391	0	100	78	2	2	3	8	3	4
0700	48	422	0	100	78	1	3	3	7	3	4
0760	45	817	3	97	73	2	6	3	9	2	6
0800	43	923	4	96	70	2	9	3	9	1	7
0950	41	1117	7	93	67	3	10	2	9	1	7
1000	39	1126	7	93	68	3	10	2	9	1	7

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BUNOW**  
 Tributary of : 25L02 LITTLE BROSNA  
 OS Grid Ref of Confluence: S 106 924  
 Date(s) Surveyed: 20/10/2008, 28/8/2008

**25/B/25**

OS Catchment No: 155

Station Nos.	Biological Quality Ratings (Q Values)												
	1971	1973	1975	1981	1984	1986	1987	1993	1996	1999	2002	2005	2008
0050	-	-	-	-	-	-	-	4-5	4-5	3-4	4	4	4
0100	-	-	-	-	-	4-5	4-5	-	-	-	-	-	-
0250	-	-	-	-	-	3	3	3	3	3-4	3	3-4	-
0400	2-3	2-3	2-3	3-4	3	3	3	3	3	3	3	3-4	3-4

**Assessment:** The upper reach (0050) of the Bunow River was in a satisfactory ecological condition when surveyed in 2008. A slight improvement was noted in macroinvertebrate diversity at Bunow Bridge (0400) but overall the community continues to indicate ecological disruption.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Br S of Killavilla Ho	217081	191091	54	OF
0100	Br 2 km E of Roscrea (N of Verdanthill)	0	0	60	TY
0250	Br d/s Roscrea Railway Station	213748	189553	60	TY
0400	Bunow Br	210983	190188	53	TY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	113	15	94	6	59	16	4	0	10	0	11
0250	92	24	63	37	62	11	3	6	9	0	8
0400	62	30	55	45	64	9	3	10	8	0	6

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CAHERNAHALLIA**

25/C/01

Tributary of : 25D01 DEAD

OS Catchment No: 155

OS Grid Ref of Confluence: R 814 468

Date(s) Surveyed: 24/9/2008

Station Nos.	Biological Quality Ratings (Q Values)								
	1979	1983	1987	1993	1996	1999	2002	2005	2008
0010	-	-	4	3-4	4	3-4	-	-	-
0025	-	4	5	-	-	-	3-4	4-5	4
0060	-	4-5	5	4	5	4-5	-	-	-
0100	4	4	4-5	3-4	4	4	4	4	3-4*

**Assessment:** There was an unwelcome decline in ecological quality at the two locations surveyed on the Cahernahalia in 2008. Glengar Bridge (0025) remained satisfactory but the macroinvertebrate community indicated a decrease from high to good ecological status. The dominance of pollution tolerant taxa and paucity of sensitive species indicated slight pollution in the lower reaches (0100). Unrestricted cattle access poses a threat to the situation at Station 0100 where heavy siltation of the substratum and severe bank erosion was noted.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0010	Br N of Foildarg	188115	152363	66	TY
0025	Glengar Br WNW of Leugh	186706	151047	0	TY
0060	Cahernahallia Br	185297	149158	66	LK
0100	Br u/s Dead R confl	182788	148245	66	LK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0010	174	7	100	0	41	25	10	0	4	0	19
0060	98	15	100	0	46	19	6	0	16	0	14
0100	59	22	79	20	63	13	4	0	11	0	9

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CAMCOR**

25/C/02

Tributary of : 25L02 LITTLE BROSNA

OS Catchment No: 155

OS Grid Ref of Confluence: N 052 054

Date(s) Surveyed: 25/8/2008, 27/8/2008, 28/8/2008

Station Nos.	Biological Quality Ratings (Q Values)									
	1977	1981	1985	1987	1993	1996	1999	2002	2005	2008
0100	-	5	5	5	5	5	5	5	5	4-5
0150	-	-	5	5	-	-	-	-	-	-
0200	5	5	5	5	-	-	-	-	-	-
0300	-	5	5	5	4	3-4	4	3-4	3-4	3-4*
0400	-	5	5	5	-	-	-	-	-	-
0500	5	5	5	5	5	4	4	4	4	4*
0600	5	5	5	4-5	4	4-5	3-4	4	4	-
0650	-	-	5	5	-	-	-	-	-	-
0700	5	5	5	5	4	3-4	4	4	3-4	3-4

**Assessment:** Ecological quality continues to be at a highly satisfactory standard in the upper reaches (0100) of the Camcor River in 2008. However excessive siltation and bank erosion were noted. Forestry works in the catchment and unrestricted livestock access could be contributing to the silt loadings. This site has remained at high status since 1981 when first surveyed and warrants special protection. In the lower reaches of the Camcor the paucity of sensitive macroinvertebrate fauna indicated unsatisfactory ecological conditions at Drumcullen bridge (0300) below Kinnitty and Elmgrove Bridge (0700) in Birr. Excessive siltation and increased compaction of the river bed substrate was noted at all locations surveyed in the lower reaches reducing habitat availability for sensitive macroinvertebrate species.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Ford u/s Coneyburrow Br	221299	204315	54	OF
0150	Br SE of Moneygunneen Ho	0	0	54	OF
0200	Ford 1.5km N of Kinnitty	0	0	54	OF
0300	Drumcullen Br	217839	206135	54	OF
0400	Carrig Br	0	0	54	OF
0500	Br S of Killyon	213205	205400	54	OF
0600	Br S of Clonbrone	209900	204255	53	OF
0650	Br near Syngfield	0	0	53	OF
0700	Br at Elm Grove Birr	206670	204990	53	OF

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	160	14	100	0	4	59	24	0	0	0	14
0300	84	21	88	12	22	45	18	0	0	0	15
0500	62	105	65	35	53	22	12	0	7	0	6
0600	56	138	51	49	60	18	9	0	9	0	5
0700	51	152	47	53	60	16	9	0	9	0	5

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CAPPAWHITE STREAM**

**25/C/10**

Tributary of : 25D01 DEAD

OS Catchment No: 155

OS Grid Ref of Confluence: R 841 456

Date(s) Surveyed: 24/9/2008

Station Nos.							Biological Quality Ratings (Q Values)				
	1979	1981	1983	1985	1987	1993	1996	1999	2002	2005	2008
0200	3-4	3-4	3	3	3	3	3	3	3	3	3
0300	-	-	-	-	3	3	3	3	3*	4	-

**Assessment:** The upper reaches (0200) of the Cappawhite stream remained in an unsatisfactory ecological condition in 2008. The complete lack of sensitive macroinvertebrate fauna indicated significant ecological disruption at Gortandrum Bridge. The promotion of a vegetated buffer zone along the banks and restriction of livestock access would help control bank erosion and the excessive instream siltation encountered.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Gortandrum Br	188000	146202	66	TY
0300	Ayle Br NE of Clonbrick	185692	144734	66	TY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	91	6	100	0	71	6	0	3	19	0	0
0300	65	16	81	19	85	4	0	2	9	0	0

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.



River and Code : **CARRIGAHORIG STREAM**

**25/C/16**

Tributary of : Lough Derg

OS Catchment No: 155

OS Grid Ref of Confluence: M 894 022

Date(s) Surveyed: 2/9/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1987	1993	1996	1999	2002	2005	2008
0300	4	3-4	3-4	4	3	4	-
0500	3-4	3-4	3-4	3-4	3	3-4	3-4

**Assessment:** Although the macroinvertebrate faunal diversity in the lower reaches (0500) had improved since 2005, the community continued to be dominated by pollution tolerant taxa indicating unsatisfactory ecological conditions in 2008. The lack of sensitive macroinvertebrate taxa, luxuriant instream macrophyte growth and excessive siltation continues to indicate eutrophic conditions.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Br S of Milford House	191512	198813	53	TY
0500	Br at Carrigahorig	190345	201564	53	TY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	53	12	0	100	69	0	14	0	9	0	8
0500	40	31	0	100	64	0	11	0	19	0	6

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CAUTEEN**  
 Tributary of : 25D01 DEAD  
 OS Grid Ref of Confluence: R 840 457  
 Date(s) Surveyed: 24/9/2008

**25/C/04**  
 OS Catchment No: 155

Station Nos.	Biological Quality Ratings (Q Values)						
	1987	1993	1996	1999	2002	2005	2008
0200	3	3	3	3	3-4	-	-
0300	-	-	-	3	-	-	-
0400	-	-	-	2	-	-	-
0500	3	3	3	3	3-4	3-4	3-4

**Assessment:** There was a slight improvement in macroinvertebrate species diversity noted at Cauteen Bridge (0500) in 2008 however the community continued to be dominated by pollution tolerant taxa indicating a persistence of slight pollution.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br u/s Gortnacoolagh Br	189532	144124	66	TY
0300	Gortnacoolagh Br	189105	144430	66	TY
0400	1st Br u/s Cauteen Br	188600	144304	66	TY
0500	Cauteen Br (d/s side)	187606	143591	66	TY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	83	18	44	56	100	0	0	0	0	0	0
0300	82	19	46	54	100	0	0	0	0	0	0
0400	80	19	47	53	100	0	0	0	0	0	0
0500	74	21	47	53	100	0	0	0	0	0	0

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CLAREEN STREAM**

**25/C/13**

Tributary of : 25C02 CAMCOR

OS Catchment No: 155

OS Grid Ref of Confluence: N 122 048

Date(s) Surveyed: 26/8/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1987	1993	1996	1999	2002	2005	2008
0200	3	4	3-4	4	4	3-4	3-4
0600	3-4	3-4	3-4	4	4	4	3

**Assessment:** The Clareen Stream was in a generally unsatisfactory ecological condition in 2008. A decline in ecological quality was noted in the lower reaches (0600). Calcification, compaction and excessive siltation were evident at both locations (0200 and 0600) surveyed. Forestry, sewage and agriculture suspected.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br W of Grange Ho	213986	200807	54	OF
0600	Br nr Kilmaine Ho	212525	204084	54	OF

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	90	9	29	71	92	4	0	0	4	0	0
0600	66	24	11	89	82	4	0	0	12	0	3

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CLODIAGH (TULLAMORE)**

**25/C/06**

Tributary of : 25B09 BROSNA

OS Catchment No: 155

OS Grid Ref of Confluence: N 203 273

Date(s) Surveyed: 14/10/2008, 15/10/2008, 16/10/2008

Station Nos.	Biological Quality Ratings (Q Values)													
	1971	1974	1975	1978	1982	1984	1987	1993	1996	1999	2002	2005	2007	2008
0050	-	-	-	-	-	-	5	-	-	4-5	-	4-5	-	-
0090	-	-	-	-	-	-	-	-	-	-	4-5	-	-	4
0100	-	-	-	5	5	-	5	5	4-5	2/0	-	3	-	-
0200	-	-	-	1/0	4	5	5	-	-	-	-	-	-	-
0220	-	-	-	-	-	-	3	3-4	3	3*	3-4*	1	2	4
0250	-	-	-	-	-	4-5	4	4-5	4	4-5	4-5	4-5	-	4
0300	-	-	-	5	5	5	4-5	5	4-5	4-5	4-5	4-5	-	-
0340	-	-	-	-	-	-	-	-	4	4	4	4	-	4
0360	-	-	-	-	-	4-5	5	4-5	-	-	-	-	-	-
0400	5	5	5	5	4-5	4-5	4-5	4-5	4	3-4	3-4	3-4	-	3-4
0500	4	4	4	-	4	3-4	3-4	4	3-4	3-4	3-4	4	-	3-4

**Assessment:** The macroinvertebrate fauna indicated that the upper reaches of the Clodiagh (Tullamore) River was in a satisfactory ecological condition when surveyed in October 2008. An unwelcome decline however at stations 0090 and 0250 from high to good ecological status was noted. A significant improvement was noted downstream of Clonaslee (0220) where the macroinvertebrate fauna improved from poor status in 2007 to good status in October 2008. Sewage effluent was suspected, however further improvement is still required as signs of continuing problems persist. Significant bank works were also noted downstream of station 0220. The lower reaches were in a generally unsatisfactory ecological condition with slight pollution noted at Annamoe Bridge (0400) and also at Rahan (0500).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Br NW of Scarroon	229672	209555	54	LS
0090	u/s Clonaslee Waterworks	231739	210783	54	LS
0100	Just u/s Clonaslee Br	231751	210864	54	LS
0200	0.8km d/s Clonaslee Br	0	0	54	LS
0220	Just u/s Gorrage R confl	232266	212095	54	LS
0250	Br ENE of Brockagh ( E of Annaghmore L)	233164	214581	54	LS
0300	Gorteen Br	234034	217087	54	OF
0340	Br N of Clonagh	230679	220892	48	OF
0360	Muckalagh Br (1.5km W of Ballard)	0	0	48	OF
0400	Annamoe Br	229099	224384	48	OF
0500	Br at Rahan	225683	225641	48	OF

## Hydrometric Area 25 (2008)

*Site Altitude and Upstream Catchment Characteristics (where available):*

<b>Site No.</b>	<b>Alt</b>	<b>Area</b>	<b>Sil</b>	<b>Cal</b>	<b>Pasture</b>	<b>Forestry</b>	<b>Bogs</b>	<b>Urban</b>	<b>Misc Ag.</b>	<b>Water</b>	<b>Other</b>
0050	159	9	100	0	8	21	25	0	17	0	29
0100	110	13	100	0	20	20	20	0	13	0	26
0220	98	14	98	2	22	19	19	1	13	0	25
0250	85	N/A	0	100	100	0	0	0	0	0	0
0300	78	48	57	43	38	13	18	1	11	0	19
0340	65	89	30	70	50	9	13	1	15	0	12
0400	53	1	0	100	83	0	0	11	7	0	0
0500	50	250	11	89	63	5	8	3	14	0	8

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DEAD**

**25/D/01**

Tributary of : 25M04 MULKEAR (LIMERICK)

OS Catchment No: 155

OS Grid Ref of Confluence: R 763 478

Date(s) Surveyed: 23/9/2008

Station Nos.	Biological Quality Ratings (Q Values)									
	1979	1981	1985	1987	1993	1996	1999	2002	2005	2008
0100	3-4	4	3-4	3	3	3	3	3-4*	3	3-4
0150	-	-	3-4	3-4	-	-	-	-	-	-
0200	4-5	4-5	4	4	3-4	3	3	3-4*	3-4	3-4
0300	-	4-5	4	4-5	-	-	-	-	-	-

**Assessment:** A slight improvement was noted in the Dead River at Popes Bridge (0100) in 2008. The paucity of sensitive macroinvertebrate species, enhanced macrophyte and algal growth, excessive siltation and calcification of the substrate indicate significant enriched conditions at both locations surveyed. Unsatisfactory ecological conditions overall persist.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Pope's Br	185579	143753	66	TY
0150	Longford Br	0	0	66	LK
0200	Derraun Br	182500	146327	66	LK
0300	0.2km d/s Br S of Pullagh u/s Bilboa R confl	0	0	65	LK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	64	59	51	49	95	0	0	5	0	0	0
0200	50	108	47	53	91	1	0	3	4	0	0

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DOLLA**  
 Tributary of : 25N01 NENAGH  
 OS Grid Ref of Confluence: R 882 742  
 Date(s) Surveyed: 18/9/2008

**25/D/08**  
 OS Catchment No: 155

Station Nos.	Biological Quality Ratings (Q Values)						
	1987	1993	1996	1999	2002	2005	2008
0300	4	5	-	-	-	-	-
0400	4-5	4-5	4	4	4	4	4

**Assessment:** Continuing satisfactory in 2008.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Br at Dolla	0	0	59	TY
0400	Br u/s Nenagh R confl	187894	173610	59	TY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0400	67	23	90	10	77	6	5	0	8	0	4

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

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River and Code : **DOON STREAM**

**25/D/03**

Tributary of : 25D01 DEAD

OS Catchment No: 155

OS Grid Ref of Confluence:

Date(s) Surveyed: 24/9/2008

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Biological Quality Ratings (Q Values)

**Station Nos.**

**2008**

0600

3-4\*

**Assessment:** The Doon Stream was in an unsatisfactory ecological condition when surveyed in 2008.

<b>Station No.</b>	<b>Stations Location</b>	<b>National X</b>	<b>Grid Ref. Y</b>	<b>Discovery Series No.</b>	<b>County Code</b>
0600	Br at Gortavalla (SW of Doon)	181443	148937	66	LK



River and Code : **DOONANE** **25/D/04**  
 Tributary of : 25N02 NEWPORT (TIPPERARY) OS Catchment No: 155  
 OS Grid Ref of Confluence: R 778 651  
 Date(s) Surveyed: 16/9/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1987	1993	1996	1999	2002	2005	2008
0010	-	-	-	4-5	4-5	4-5	-
0100	5	-	-	-	-	-	-
0200	5	5	5	4-5	4-5	5	4-5

**Assessment:** Continuing highly satisfactory ecological status.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0010	Ford ENE of Toor	181309	164383	59	TY
0100	Br W of Tooratagart	179821	164680	59	TY
0200	Br u/s Newport R confl	177802	165126	59	TY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0010	207	4	100	0	0	29	11	0	8	0	52
0100	166	12	100	0	0	14	19	0	22	0	46
0200	129	15	100	0	0	13	20	0	22	0	44

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DYSART STREAM (LOUGH ENNELL)** 25/D/05  
 Tributary of : Lough Ennell OS Catchment No: 155  
 OS Grid Ref of Confluence: N 374 456  
 Date(s) Surveyed: 19/8/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1987	1993	1996	1999	2002	2005	2008
0100	-	4-5	3	4	3*	3-4	3*
0300	4	-	-	-	-	-	-
0400	-	4-5	3-4	4	4	3-4	3*

**Assessment:** There was an overall decline in ecological quality observed in the Dysart Stream in 2008. The dominance of pollution tolerant macroinvertebrate fauna and lack of sensitive species indicated significant ecological disruption. Excessive siltation was noted at both locations surveyed with heavy calcification noted in the lower reaches (0400). Overall unsatisfactory ecological conditions continue.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br NW of Milltown	233254	249239	48	MH
0300	Br in Dysart	0	0	48	MH
0400	Br u/s L Ennell	237063	245657	48	MH

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	113	7	0	100	81	0	0	0	11	0	8
0400	89	14	0	100	91	0	0	0	5	0	4

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **GAGEBOROUGH**

**25/G/01**

Tributary of : 25B09 BROSNA

OS Catchment No: 155

OS Grid Ref of Confluence: N 237 326

Date(s) Surveyed: 9/10/2008, 10/10/2008

Station Nos.	Biological Quality Ratings (Q Values)							
	1984	1989	1993	1996	1999	2002	2005	2008
0045	-	-	4	3-4	3-4	4	3-4	-
0050	-	4	-	-	-	-	-	-
0100	4-5	4	4	3-4	3-4	3-4	4	3-4
0190	-	4	-	-	-	-	-	-
0200	4-5	-	-	-	-	-	-	-
0300	4-5	4	4	3-4	3-4	3-4	4-5	4
0400	4-5	-	-	-	-	-	-	-
0500	5	4-5	3-4	4	3-4	3-4	3-4	3-4

**Assessment:** There was an overall decline in ecological quality in the upper reaches of the Gageborough River in 2008. The dominance of pollution tolerant macroinvertebrate species coupled with the enhanced instream macrophyte growth and excessive siltation indicated ecological disruption at Donore Bridge (0100). Although the macroinvertebrate fauna remained satisfactory there was a decline from high to good ecological status at Gageborough Bridge (0300) where significant bridge and bank works for the construction of the new N6 road had occurred since the last survey. Enhanced macrophyte growth, heavy siltation, calcification and compaction of the substratum were all evident at this location. The lower reaches (0500) remain in an unsatisfactory ecological condition with luxuriant macrophyte growths, heavy siltation and calcification reflecting a marked degree of eutrophication.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0045	Br NNW of Rockfield	229919	243198	48	MH
0050	Br W of Rockfield	0	0	48	MH
0100	Donore Br	229309	240249	48	MH
0190	Horseleap: Mullingar Rd Br	0	0	48	OF
0200	Horseleap: N6 Rd Br	0	0	48	OF
0300	Gageborough Br 1.2km S of Dunard	226111	237790	48	OF
0400	Gorteen Br	0	0	48	OF
0500	Ballyboughlin Br	223708	233794	48	OF

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0045	102	7	0	100	91	7	0	0	2	0	0
0100	70	23	0	100	88	2	0	0	6	0	4
0300	58	60	0	100	91	2	0	0	5	0	3
0500	51	121	0	100	89	1	3	1	4	0	2

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **GLASHACLOONARAVEELA**

**25/G/02**

Tributary of : 25B03 BILBOA

OS Catchment No: 155

OS Grid Ref of Confluence: R 795 519

Date(s) Surveyed: 23/9/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1987	1993	1996	1999	2002	2005	2008
0100	-	5	5	5	4-5	-	-
0500	5	5	4	4-5	4-5	4-5	4

**Assessment:** Continuing satisfactory in 2008 although the macroinvertebrate fauna indicated a decline from high to good ecological status.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br E of Crehaun	182181	155396	66	LK
0500	Glasha Br u/s Bilboa R confl	180075	153503	66	LK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	177	2	100	0	12	17	25	0	22	0	25
0500	84	14	100	0	40	14	7	0	26	0	13

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **GLENFELLY STREAM**

**25/G/21**

Tributary of : 25C02 CAMCOR

OS Catchment No: 155b

OS Grid Ref of Confluence: N 167 061

Date(s) Surveyed: 25/8/2008, 27/8/2008

*Formerly West Branch of Camcor River 25C02*

Station Nos.	Biological Quality Ratings (Q Values)						
	1989	1993	1996	1999	2002	2005	2008
0010	-	5	5	5	5	-	4
0080	5	5	5	-	-	-	-
0090	-	-	-	4-5	4-5	5	4

**Assessment:** A slight decline from high to good ecological status was evident at Glenfelly Bridge (0010) and Wooden bridge (0090) when surveyed in 2008. An increase in instream siltation was noted at both locations. This stream was formerly reported as the west branch of the Camcor River.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0010	Br 3km E of Longford	220250	201350	54	OF
0080	Clonfosse Br (W of Kinnitty)	217400	205500	54	OF
0090	Wooden Br d/s Clonfosse Br	217063	206286	54	OF

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0090	77	25	80	20	31	39	15	1	1	0	12

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **GOLDEN GROVE STREAM**

25/G/06

Tributary of : 25L02 LITTLE BROSNA

OS Catchment No: 155

OS Grid Ref of Confluence: S 107 904

Date(s) Surveyed: 28/8/2008

Station Nos.							Biological Quality Ratings (Q Values)				
	1981	1983	1985	1987	1988	1993	1996	1999	2002	2005	2008
0040	-	-	-	4-5	-	2-3	3-4	3-4	-	-	-
0080	-	-	-	5	-	3-4	4	3-4	3	3-4	3-4
0100	-	-	-	4-5	-	-	-	-	-	-	-
0200	2	1-2	2	2-3	2-3	2-3	2-3	3	3	3	3-4

**Assessment:** The Golden Grove Stream was in an unsatisfactory ecological condition when surveyed in 2008. No change was observed in the Laurel Hill area (0080) with excessive siltation again noted. The macroinvertebrate community indicated a slight improvement in conditions at the lower reaches (0200) however further improvements are required if satisfactory ecological conditions are to be restored.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0040	d/s Br nr Ballybrit Castle	214469	195396	54	OF
0080	Br W of Laurel Hill	213378	192516	54	OF
0100	Old Br E of High Park	0	0	53	OF
0200	Just u/s Little Brosna R	210873	190459	53	TY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0040	126	5	100	0	74	0	0	0	25	0	2
0080	93	20	58	42	79	0	0	0	19	0	2
0200	60	65	46	54	74	5	1	5	11	0	4

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **GORRAGH** **25/G/09**  
 Tributary of : 25C06 CLODIAGH (TULLAMORE) OS Catchment No: 155  
 OS Grid Ref of Confluence: N 322 121  
 Date(s) Surveyed: 15/10/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1987	1993	1996	1999	2002	2005	2008
0100	5	-	-	-	-	-	-
0200	-	4-5	4-5	4-5	5	4	-
0300	5	-	-	-	-	-	4-5

**Assessment:** The lower reaches of the Gorragh River (0300) was in a highly satisfactory ecological condition when surveyed in 2008.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Ford W of Srahcullen	231500	209700	54	LS
0200	Gorragh Br E of Clonaslee	232300	210801	54	LS
0300	Killart Ho (u/s Clodaigh rv Confl)	232400	212100	54	LS

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	111	12	100	0	2	30	35	0	9	0	22

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **GORTNAGERAGH**

**25/G/03**

Tributary of : 25B03 BILBOA

OS Catchment No: 155

OS Grid Ref of Confluence: R 826 526

Date(s) Surveyed: 22/9/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1987	1993	1996	1999	2002	2005	2008
0200	-	4	4-5	4-5	4-5	4-5	4
0300	5	5	4-5	4-5	4-5	4	4

**Assessment:** Ecological quality continues satisfactory in the Gortnageragh River in 2008. Pronounced siltation was evident however at both locations (0200 and 0300) surveyed.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br SW of Foilycleary	187105	154882	66	TY
0300	Br u/s Bilboa R confl	182653	152685	66	LK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	209	6	100	0	24	20	10	0	0	0	46
0300	97	16	100	0	35	23	6	0	16	0	20

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.



River and Code : **GORTNAGOWNA**

**25/G/13**

Tributary of : 25N01 NENAGH

OS Catchment No: 155

OS Grid Ref of Confluence: S 957 690

Date(s) Surveyed: 11/9/2008

Station Nos.	Biological Quality Ratings (Q Values)					
	1993	1996	1999	2002	2005	2008
0300	4-5	-	-	-	-	-
0400	-	4	4-5	4-5	4-5	4
0500	4-5	-	-	-	-	-

**Assessment:** Continuing satisfactory in 2008 although the macroinvertebrate fauna indicated a slight decline from high to good ecological status.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Tooreagh Br	0	0	59	TY
0400	Br u/s Cloghinch Old Br	195269	168417	59	TY
0500	Cloghinch Old Br	0	0	59	TY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0400	132	8	100	0	86	6	3	0	0	0	5

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **GROODY**  
 Tributary of : 25S01 SHANNON (Lower)  
 OS Grid Ref of Confluence: R 604 577  
 Date(s) Surveyed: 2/10/2008

**25/G/05**

OS Catchment No: 155

Station Nos.	Biological Quality Ratings (Q Values)											
	1971	1975	1979	1983	1985	1987	1993	1996	1999	2002	2006	2008
0100	4	4	4	4	3-4	3	3	3-4	3	3-4	-	-
0150	-	-	-	-	3-4	3	3	3	3	3	-	3
0200	4	4	4	4	3	3-4	3	3	3	3*	3-4	3-4
0300	4	4	4	4	-	3-4	3	-	-	-	-	-

**Assessment:** The Groody was in an unsatisfactory ecological condition when surveyed in 2008. The dominance of pollution tolerant macroinvertebrate fauna indicated moderate pollution at Killonan Bridge (0150), other indicators included luxuriant macrophyte growth and excessive siltation. Further downstream at Ballysimon (0200) the lack of sensitive macroinvertebrate taxa, excessive siltation and enhanced macrophyte and algal growth indicated no improvement in ecological quality.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br 2km N of Caherconlish	167746	151663	65	LK
0150	Killonan Br	163587	154302	65	LK
0200	Br in Ballysimon	161539	155168	65	LK
0300	Groody Br	160593	157094	65	LK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	33	7	0	100	95	0	0	4	0	0	0
0150	22	43	0	100	97	0	0	1	1	0	0
0200	10	48	0	100	97	0	0	2	1	0	0
0300	6	51	0	100	94	0	0	5	1	0	0

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **INCH (BILBOA)**

**25/I/01**

Tributary of : 25B03 BILBOA

OS Catchment No: 155b

OS Grid Ref of Confluence: R 886 584

Date(s) Surveyed: 22/9/2008

*Formerly Inch Branch of Bilboa River 25B03*

Station Nos.	Biological Quality Ratings (Q Values)						
	1989	1993	1996	1999	2002	2005	2008
0004	4	3-4	4	3	3-4*	3-4	-
0008	4	4	3-4	4	4	4-5	4

**Assessment:** The lower reaches (0008) of the Inch (Bilboa) stream was in a satisfactory ecological condition in 2008, however the macroinvertebrate fauna and enhanced macrophyte growth indicated a decline from high to good ecological status. Excessive siltation was also noted which may have been caused by recent works on the bridge and drainage channel. The storage of silage bales in close proximity to the river could also pose a threat in the future.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0004	Br SE of Loughbrack	191700	158600	66	TY
0008	Br u/s Bilboa R. Confl.	188906	158312	66	TY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0008	189	24	100	0	66	6	16	0	2	0	11

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **KEELOGE STREAM**

**25/K/14**

Tributary of : 25L02 LITTLE BROSNA

OS Catchment No: 155b

OS Grid Ref of Confluence: S 053 914

Date(s) Surveyed: 3/9/2008, 4/9/2008

*Formerly Keeloge Branch of Little Brosna River 25L02*

Station Nos.	Biological Quality Ratings (Q Values)							
	1984	1987	1993	1996	1999	2002	2005	2008
0015	-	5	4	4	-	-	n/s	-
0016	-	-	-	-	4-5	4	3-4	3-4*
0020	5	3	-	-	-	-	-	-
0025	-	3-4	3-4	3	4-5	3-4	3-4	-
0027	4	4	3-4	3-4	4	4	3-4	3-4*

**Assessment:** The Keeloge Stream remained in an unsatisfactory ecological condition in 2008. The macroinvertebrate fauna indicated slight pollution at both locations surveyed. This stream was hydromorphologically severely damaged by watering cattle in the Dunkerrin area (0016) while the lower reaches experienced pronounced substratum calcification and compaction (at 0027).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0015	Br E of Loughan	205600	184000	59	OF
0016	Br SW of Dunkerrin (Main Rd)	205600	183900	59	OF
0020	Br E of Ballyrihy Ho	0	0	59	
0025	Br u/s Clonlisk Br	205300	188200	59	OF
0027	Br at Keeloge Cottage	204500	191300	53	OF

River and Code : **KILCOMIN STREAM**

**25/K/15**

Tributary of : 25L02 LITTLE BROSNA

OS Catchment No: 155

OS Grid Ref of Confluence: S 053 914

Date(s) Surveyed: 3/9/2008

*Formerly Kilcomin Branch of Little Brosna*

Station Nos.	1987	1993	1996	1999	Biological Quality Ratings (Q Values)		
					2002	2005	2008
0040	3-4	3-4	3	3	3	3	-
0052	4	3-4	3	4	3-4	3-4	3-4
0055	3-4	-	-	-	-	-	-
0085	3-4	3-4	3	3-4	3	3-4	-

**Assessment:** The Kilcomin Stream continues to remain in an unsatisfactory ecological condition in 2008 most likely due to agriculture. The lack of sensitive macroinvertebrate species coupled with excessive siltation and luxuriant macrophyte growth indicates significant ecological disruption at Coolroe Bridge (0052).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0040	Br SW of Barna	202700	186100	59	OF
0052	Coolroe Br	202500	189200	59	OF
0055	Kilcomin Br	0	0	53	
0085	Br ESE of Kennes X-Rds	204400	191800	53	OF

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0040	94	19	19	81	66	1	0	1	21	0	10
0085	66	1	0	100	72	0	0	0	28	0	0

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **KILFADDA CASTLE STREAM** **25/K/07**  
 Tributary of : 25C16 CARRIGAHORIG STREAM OS Catchment No: 155  
 OS Grid Ref of Confluence: M 922 006  
 Date(s) Surveyed: 2/9/2008

*Formerly reported as: Carrigahorrig Stream 25C16 (q.v.).*

Station Nos.	Biological Quality Ratings (Q Values)						
	1987	1993	1996	1999	2002	2005	2008
0600	4-5	3-4	3-4	3-4	3-4	3-4	3-4

**Assessment:** As in previous surveys, the Kilfadda Castle Stream remains in an unsatisfactory ecological condition in 2008.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0600	Br SE of Carrigahorig	191455	200668	53	TY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0600	46	17	0	100	68	0	11	0	15	0	6

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **KILLEENGARRIFF**

**25/K/02**

Tributary of : 25M04 MULKEAR (LIMERICK)

OS Catchment No: 155

OS Grid Ref of Confluence: R 678 539

Date(s) Surveyed: 22/10/2008

Station Nos.							Biological Quality Ratings (Q Values)				
	1971	1975	1979	1983	1987	1993	1996	1999	2002	2005	2008
0100	5	5	5	5	5	-	-	-	-	-	-
0150	-	-	-	-	5	4-5	4-5	4-5	4	4-5	4
0200	5	5	5	4	4-5	-	-	-	-	-	-

**Assessment:** Ecological conditions remain satisfactory although the macroinvertebrate fauna indicated a decline from high to good ecological status in 2008.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Annagh Br	168361	157819	65	LK
0150	Br d/s Annagh Br	168218	156324	65	LK
0200	Barrington's Br	167903	154889	65	LK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	29	200	84	16	47	13	14	0	4	0	22
0150	27	217	81	19	51	12	13	0	4	0	20
0200	25	220	79	21	52	12	12	0	4	0	20

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **KILMASTULLA**

25/K/04

Tributary of : 25S01 SHANNON (Lower)

OS Catchment No: 155

OS Grid Ref of Confluence: R 697 697

Date(s) Surveyed: 11/9/2008, 21/10/2008

Station Nos.	Biological Quality Ratings (Q Values)													
	1971	1974	1976	1978	1981	1983	1985	1987	1993	1996	1999	2002	2005	2008
0120	-	-	-	-	-	-	-	-	-	3	3-4	3-4	3-4	3-4
0150	-	-	-	-	-	-	-	4-5	3-4	-	-	-	-	-
0300	-	3	2/0	1/0	3/0	3	-	3	-	-	-	3	-	-
0700	-	2	1/0	1/0	2/0	3	-	3-4	-	-	-	-	-	-
0800	1/0	2	2-3	1/0	3/0	3-4	3/0	3-4	3/0	3/0	3*	3	3-4	3-4
0900	3-4	3-4	3/0	3/0	3/0	3-4	4	4	3/0	3-4	-	-	-	-
0910	-	-	-	-	-	-	-	-	-	-	3-4	3-4	3-4	3-4
0950	-	-	-	-	3/0	3-4	4	4-5	-	-	-	-	-	-
1000	5	4-5	4	3-4	4	4	4-5	4-5	3/0	3-4	4	3-4	4	3-4

**Assessment:** The Kilmastulla was in an unsatisfactory ecological condition in 2008. The lack of sensitive macroinvertebrate fauna, heavy siltation and compaction of substratum indicated ecological disruption in the upper reaches (0120). Although an improvement in macroinvertebrate diversity was noted at Crana Bridge (0800), the dominance of pollution tolerant taxa and paucity of sensitive species coupled with enhanced macrophyte growth and excessive siltation continued to indicate unsatisfactory enriched conditions. The macroinvertebrate fauna indicated an unwelcome decline in ecological quality at Cool Bridge (1000). In the upper reaches (0120) the most likely causes are sewage and agriculture, while in the lower reaches agriculture and seepage/runoff from the vast Silvermines tailings area are suspected as the most likely sources of pollution. Major roadworks in the area may also be contributing to the silt loading.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0120	Carrow Br (W of Srah Cottage)	182800	173394	59	TY
0150	Erinagh Br (W of Gortnacleha)	0	0	59	TY
0300	U/s Yellow R confl	0	0	59	TY
0700	D/s Yellow R confl	0	0	59	TY
0800	Cranna Br (SW of Cranna Ho)	178515	171886	59	TY
0900	Br NE of Cappadine	175408	170983	59	TY
0910	Br W of Cappadine	174587	170622	59	TY
0950	Br u/s Kilmastulla Br	0	0	59	TY
1000	Cool Br	170947	169506	59	TY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0120	60	18	32	68	70	4	4	2	4	0	16
0800	44	58	44	56	71	2	8	4	7	0	7
0900	38	70	46	54	76	2	7	4	6	0	6
0910	36	72	47	53	76	2	7	3	6	0	6
1000	38	70	45	55	76	2	7	4	6	0	6

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.



River and Code : **LITTLE (CLOGHAN)**

**25/L/01**

Tributary of : 25B09 BROSNA

OS Catchment No: 155

OS Grid Ref of Confluence: N 039 201

Date(s) Surveyed: 17/10/2008

Station Nos.							Biological Quality Ratings (Q Values)				
	1984	1986	1987	1988	1989	1993	1996	1999	2002	2005	2008
0100	1	2	2	2	2-3	2-3	-	2-3	-	-	-
0200	1	3	3	-	-	3-4	4	3-4	3-4	3-4	4
0400	2	3	3	-	-	4	4	4	3-4*	4	3-4

**Assessment:** The macroinvertebrate fauna indicated a slight improvement downstream of Cloghan (0200) in 2008. The lack of sensitive macroinvertebrate fauna coupled with the low dissolved oxygen readings indicated a decline in ecological quality in the lower reaches (0400). Recent bank works were also noted at this location.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Crancreagh Br	207850	216241	53	OF
0200	Br 2km SW of Cloghan	206207	217780	53	OF
0400	Br u/s Brosna R confl	204306	219625	53	OF

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	48	20	0	100	24	3	45	0	7	0	22
0200	39	27	0	100	35	2	39	0	6	0	18
0400	37	36	1	99	45	1	33	1	6	0	13

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **LITTLE BROSNA**

**25/L/02**

Tributary of : 25S01 SHANNON (Lower)

OS Catchment No: 155

OS Grid Ref of Confluence: M 947 128

Date(s) Surveyed: 2/9/2008, 3/9/2008, 20/10/2008

Station Nos.	Biological Quality Ratings (Q Values)												
	1971	1973	1975	1977	1981	1984	1987	1993	1996	1999	2002	2005	2008
0100	5	5	5	5	4	4-5	3-4	3-4	4	4	3-4	3-4	3-4
0200	-	-	-	-	4	4	3-4	-	-	-	-	-	-
0300	4	3-4	3-4	-	3-4	3-4	3-4	3	3	3	3-4	-	-
0301	-	-	-	-	-	-	-	-	-	-	1	-	-
0400	-	-	-	4	4	4	4	3-4	3	3	3/0	3-4	3-4
0500	4-5	3-4	4	4	4	4-5	4	-	-	-	-	-	-
0600	4	-	-	-	4-5	5	4-5	3-4	4	4	4	3-4	3-4
0700	5	4-5	-	4-5	4-5	4	4	3-4	3	4	3-4	3	3-4
0800	5	5	-	5	4	4	4-5	4	-	-	-	-	-
0810	-	-	-	-	-	-	-	-	3-4	3-4	3-4	3-4	-
0900	5	-	-	5	4	5	5	-	-	-	-	-	-
1000	-	-	-	-	4	4-5	5	3-4	3-4	3-4	3-4	3-4	4

**Assessment:** The Little Brosna River was in an unsatisfactory ecological condition in 2008. Although macroinvertebrate species diversity improved, the continued dominance of pollution tolerant fauna indicated slight pollution at Milltown Bridge (0100), Drumakeenan (0400) and at Sharavogue Bridge (0600). A slight improvement in the macroinvertebrate fauna at Riverstown bridge (0700) was evident, however the luxuriant instream macrophyte growth noted indicates continued enrichment. Further improvements are required in order for ecological status to reach a satisfactory level as required by the Water Framework Directive.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Milltown Br	206992	190924	53	OF
0200	Just u/s Bunow R confl (at water intake)	0	0	53	OF
0300	1st Br d/s Bunow R confl	210857	190439	53	OF
0301	First Br d/s Bunow R confl (d/s RHS)	0	0	53	OF
0400	Br nr Brosna House (Drumakeenan)	210088	191828	53	OF
0500	Brosna Br (nr Brosna Station)	0	0	53	OF
0600	Sharavoge Br (SW of S. Ho) ( d/s on RHS)	205626	196501	53	OF
0700	Riverstown Br	205269	203512	53	OF
0800	Croghan Br	0	0	53	OF
0810	100m d/s Croghan Br	205371	205709	53	OF
0900	Derrinsallow Br (u/s side)	0	0	53	OF
1000	New Br	201647	209141	53	OF

***Hydrometric Area 25 (2008)***

*Site Altitude and Upstream Catchment Characteristics (where available):*

<b>Site No.</b>	<b>Alt</b>	<b>Area</b>	<b>Sil</b>	<b>Cal</b>	<b>Pasture</b>	<b>Forestry</b>	<b>Bogs</b>	<b>Urban</b>	<b>Misc Ag.</b>	<b>Water</b>	<b>Other</b>
0100	62	127	24	76	76	3	1	0	13	0	6
0300	60	65	46	54	74	5	1	5	11	0	4
0400	52	201	30	70	76	3	1	2	13	0	5
0600	45	233	26	74	75	4	1	2	14	0	5
0700	42	328	20	80	72	3	4	1	15	0	5
0810	40	488	28	72	68	7	6	1	13	0	5
1000	37	502	27	73	68	7	5	1	13	0	5

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **LORRHA STREAM**

**25/L/05**

Tributary of : Lough Derg

OS Catchment No: 155

OS Grid Ref of Confluence: M 887 032

Date(s) Surveyed: 2/9/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1989	1993	1996	1999	2002	2005	2008
0200	3	3	3-4	3-4	3	3-4	-
0300	4	3	3	3	3	3-4	3-4

**Assessment:** The Lorrha Stream downstream of Friars Lough (0300) was in an unsatisfactory ecological condition in 2008. The dominance of pollution tolerant macroinvertebrate fauna, luxuriant weed growth and heavy substratum siltation continued to indicate that improvements are required before satisfactory conditions can be restored. Agriculture is suspected as the most likely source of the eutrophication and siltation observed.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br SW of Lorrha	191690	204484	53	TY
0300	Br d/s Friar's Lough	190727	203686	53	TY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	38	24	0	100	68	4	16	0	10	0	2
0300	37	28	0	100	69	3	14	0	10	0	4

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **MOATE STREAM**

**25/M/05**

Tributary of : 25B09 BROSNA

OS Catchment No: 155

OS Grid Ref of Confluence: N 226 325

Date(s) Surveyed: 19/8/2008, 20/8/2008

Station Nos.							Biological Quality Ratings (Q Values)				
	1984	1986	1987	1988	1989	1993	1996	1999	2002	2005	2008
0150	-	-	1	1	2-3	3	1	3	2-3	3	3
0300	2	3	3	-	-	3	2	3	3	3	-
0400	3-4	4	3	-	-	3	3-4	3	4	3-4	3*

**Assessment:** The Moate Stream (aka Cloghatanny River) was moderately polluted at both locations surveyed in 2008. The complete lack of sensitive macroinvertebrate taxa, dominance of pollution tolerant fauna, heavy siltation and low dissolved oxygen concentrations indicates significant ecological disruption at both locations (0150 and 0400). Unrestricted livestock access and recent bank works noted in the lower reaches (0400) could have contributed to the heavy siltation noted. Sewage and Agriculture suspected sources of pollution.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0150	Br NW of Culleenagower	218669	237762	48	MH
0300	Br S of Lurgan X-Rds	219188	235463	48	OF
0400	Br nr Sheean Ho	222091	233763	48	OF

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0150	67	3	12	88	74	0	0	26	0	0	0
0300	58	10	4	96	81	0	0	12	0	0	7
0400	53	23	2	98	76	0	9	6	0	0	10

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **MONAGHANSTOWN**

**25/M/01**

Tributary of : 25B09 BROSNA

OS Catchment No: 155

OS Grid Ref of Confluence: N 381 432

Date(s) Surveyed: 9/10/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1987	1993	1996	1999	2002	2005	2008
0100	-	3-4	-	-	-	-	-
0300	4	4	3-4	4	4	3-4	-
0500	4	4	3-4	4	3-4	3-4	3

**Assessment:** The complete lack of sensitive macroinvertebrate species and dominance of pollution tolerant taxa indicated significant ecological disruption at Nure Bridge (0500) on the Monaghanstown River in 2008. Recent field and bank works on site and upstream livestock watering access are suspected of contributing to the heavy siltation of substrata noted. A forestry plantation is also sited nearby.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Glomestown: North Br	0	0	48	MH
0300	Br NNW of Monaghanstown	234979	245584	48	MH
0500	Nure Br	237090	242936	48	MH

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	88	6	0	100	100	0	0	0	0	0	0
0500	86	37	0	100	86	3	1	1	6	0	4

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **MULKEAR (LIMERICK)**

25/M/04

Tributary of : 25S01 SHANNON (Lower)

OS Catchment No: 155

OS Grid Ref of Confluence: R 632 587

Date(s) Surveyed: 2/10/2008

Station Nos.	Biological Quality Ratings (Q Values)											
	1971	1975	1979	1983	1986	1987	1993	1996	1999	2002	2006	2008
0100	5	5	5	4	4-5	5	4	4	4	4	4-5	-
0200	-	-	4-5	4	4-5	4-5	3-4*	3-4	3	4	4-5	-
0300	5	5	-	-	-	4-5	3	-	-	-	-	-
0400	-	-	5	5	-	5	-	4	4	4	4	-
0500	5	5	4-5	5	-	5	4	3-4	4	4-5	-	-
0590	-	-	-	-	-	5	4	3-4	4	4	4-5	4
0600	5	5	4-5	4-5	-	4-5	-	-	-	-	-	-

**Assessment:** Continuing satisfactory at Annacotty Bridge (0590), however the macroinvertebrate fauna did indicate a decline from high to good ecological status in 2008. Due to high water levels in 2008 stations 0200 and 0400 were inaccessible. These stations will be sampled in the 2009 programme.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Dromkeen Br	174031	148040	65	LK
0200	Brittas Br	172240	150805	65	LK
0300	Br nr Abingdon Ho	171538	153428	65	LK
0400	2km d/s St 0300 (N of Boher at bend in road)	169578	153093	65	LK
0500	Ford d/s Killeengarriff R	165236	155535	65	LK
0590	Annacotty Br d/s weir	164262	157694	65	LK
0600	1km d/s Annacotty Br (LHS)	163845	158250	65	LK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	43	333	56	44	74	4	4	1	11	0	5
0200	41	378	53	47	74	5	4	1	10	0	5
0300	37	394	53	47	75	5	4	1	10	0	5
0400	30	405	52	48	76	5	4	1	10	0	5
0500	18	635	61	39	68	7	7	1	8	0	10
0590	12	641	61	39	68	7	7	1	7	0	10

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **NENAGH**

25/N/01

Tributary of : Lough Derg

OS Catchment No: 155

OS Grid Ref of Confluence: R 816 864

Date(s) Surveyed: 18/9/2008, 19/9/2008, 21/10/2008

Station Nos.	Biological Quality Ratings (Q Values)												
	1971	1974	1978	1981	1984	1986	1987	1993	1996	1999	2002	2005	2008
0100	-	-	5	5	5	-	4-5	5	4-5	4-5	4	4-5	4
0200	-	-	5	5	4-5	-	4-5	5	4-5	4-5	4	4	4
0300	-	-	4	5	5	-	5	4-5	4	4-5	4-5	4	4
0400	-	-	-	5	4-5	5	4	-	4	4-5	4	3-4	-
0500	5	5	4-5	5	4	4-5	5	4-5	4	4-5	4	3-4	3-4
0700	-	-	3-4	3-4	3-4	4	4-5	3-4	3-4	3-4	3-4	3-4	3-4
0800	-	-	4	4	4	-	3-4	3	3-4	3-4	3-4	3-4	3-4

**Assessment:** The Nenagh River remains in a satisfactory ecological condition in the upper reaches (0100, 0200 and 0300) however an unwelcome loss of the only remaining high ecological status site was noted at Cloghinch Bridge (0100). Some signs of enrichment were evident in the upper reaches with excessive siltation and enhanced macrophyte growth noted. The lower reaches (0500, 0700, 0800) were again in an unsatisfactory ecological condition when surveyed in 2008. The paucity of sensitive macroinvertebrate fauna coupled with the dominance of pollution tolerant species, enhanced macrophyte and algal growth and excessive siltation continues to indicate significant eutrophication and ecological disruption. Sewage, agriculture and industry suspected sources of pollution.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Cloghinch Br	196159	169391	59	TY
0200	Lacken Br	196000	173007	59	TY
0300	Ballysoilshaun Br	191603	173944	59	TY
0500	Tyrone Br.	187572	177917	59	TY
0700	Br d/s Nenagh Br	186054	182277	59	TY
0800	Annaghbeg Br	183100	184890	59	TY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	119	31	100	0	64	14	11	0	2	0	9
0200	87	57	100	0	73	10	6	1	3	0	8
0300	74	79	93	7	75	7	5	1	7	0	6
0500	55	133	76	24	77	6	4	1	8	0	4
0700	44	293	57	43	75	4	2	2	13	0	3
0800	34	315	53	47	75	4	2	2	14	0	3

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.



River and Code : **NEWPORT (TIPPERARY)**

**25/N/02**

Tributary of : 25K02 KILLEENGARRIFF

OS Catchment No: 155

OS Grid Ref of Confluence: R 685 578

Date(s) Surveyed: 16/9/2008, 17/9/2008

Station Nos.	Biological Quality Ratings (Q Values)											
	1971	1975	1979	1981	1984	1987	1993	1996	1999	2002	2005	2008
0060	-	-	-	-	-	5	5	5	5	4-5	4-5	4-5
0100	-	-	5	5	5	5	5	3-4	4-5	4-5	4-5	4
0200	5	5	5	5	5	5	5	3	3-4	3-4*	4	4
0330	-	-	-	-	-	-	5	4	4-5	4	4-5	4

**Assessment:** The Newport (Tipperary) River remains in a satisfactory ecological condition in 2008, however the macroinvertebrate fauna indicated a decline from high to good ecological status at two locations surveyed (0100 and 0330). Increased siltation was noted at all stations. Some signs of enrichment were evident downstream of Newport (0330) where excessive siltation and signs of possible sanitary waste were noted.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0060	Br nr Glanculloo Old School	183723	168340	59	TY
0100	Ford u/s Doonane R confl	177521	166812	59	TY
0200	Rockvale Br nr Mackney	173878	163344	59	TY
0330	Br S of Shower	170251	161848	58	TY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0060	195	24	100	0	15	25	24	0	8	0	28
0100	128	45	100	0	27	23	20	0	4	0	25
0200	80	69	100	0	28	19	19	0	9	0	26
0330	36	95	99	1	36	14	14	0	8	0	27

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **NEWTOWN**  
 Tributary of : Lough Derg  
 OS Grid Ref of Confluence: R 802 826  
 Date(s) Surveyed: 16/9/2008

**25/N/03**  
 OS Catchment No: 155

Station Nos.	Biological Quality Ratings (Q Values)							
	1985	1987	1993	1996	1999	2002	2005	2008
0100	5	5	5	4-5	4-5	4-5	4-5	-
0200	5	5	5	3-4	4-5	4	4	4

**Assessment:** The Newtown River was in a satisfactory ecological condition at Newtown Bridge (0200) in 2008. Macroinvertebrate diversity has improved slightly since the previous survey however some signs of enrichment including enhanced algal development and heavy siltation, were evident. Unrestricted livestock access poses a threat to the future satisfactory status at this location.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Carrigmadden Br	179801	178001	59	TY
0200	Newtown Br	180441	180696	59	TY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	109	13	100	0	48	9	2	0	22	0	19
0200	48	17	100	0	57	7	2	0	19	0	15

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **OLLATRIM**

**25/O/01**

Tributary of : 25N01 NENAGH

OS Catchment No: 155

OS Grid Ref of Confluence: R 873 804

Date(s) Surveyed: 10/9/2008, 15/9/2008, 21/10/2008, 22/10/2008

Station Nos.	Biological Quality Ratings (Q Values)								
	1981	1984	1987	1993	1996	1999	2002	2005	2008
0040	-	-	3-4	3-4	3	3	3*	3	3-4*
0080	-	-	4-5	3-4	3-4	3-4	3-4	3-4	-
0100	5	4	4	4	-	-	-	-	-
0150	-	-	4-5	-	4	4	4	4	4-5
0200	5	3-4	3-4	4	-	-	-	-	-
0250	-	-	-	-	4	4	4	4	4
0300	4	3-4	4	4-5	-	-	-	-	-
0400	4	4	4	3-4	3-4	3-4	3-4	3-4	3-4
0450	-	-	4	-	-	-	-	-	-
0500	5	3-4	4	-	-	-	-	-	-
0600	-	-	4-5	3-4	3-4	3-4	3-4	3-4	3-4

**Assessment:** At least one large sandpit is located in the Ballybeg area (0040) where, coincidentally, extreme silt deposition allied with excessive weed production again indicated ecological disruption in 2008. The middle reaches (0150 and 0250) of the Ollatrim River remained in a satisfactory ecological condition. Excessive siltation was noted at both stations. The dominance of pollution tolerant macroinvertebrate species coupled with enhanced weed and algal production indicated eutrophic conditions in the lower reaches (0400 and 0600) once again in 2008. Heavy siltation and low dissolved oxygen concentrations were also observed at Rathurles Bridge (0400). Agriculture and sewage suspected sources of pollution.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0040	Br SE of Ballybeg	202307	176088	59	TY
0080	Aghnameadle Br	201694	177499	59	OF
0100	Ollatrim Br	200100	179500	0	TY
0150	Br d/s Ollatrim Br	198774	180921	59	TY
0200	Br SW of Millgrove Ho	0	0	0	TY
0250	Br nr Riverlawn House	194173	181903	59	TY
0300	Ford at Castle Willington	0	0	0	TY
0400	Rathurles Br	190617	179783	59	TY
0450	Br SW of Islandbaun Ho	0	0	0	TY
0500	Gourdeen Br	0	0	0	TY
0600	Br u/s Nenagh R confl	187633	180217	59	TY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0040	145	18	100	0	80	7	0	0	2	0	11
0080	133	35	100	0	75	12	1	0	2	0	11
0150	104	52	95	5	78	8	1	1	6	0	7
0250	84	68	82	18	77	6	2	0	9	0	5
0400	68	81	69	31	75	5	1	0	13	0	5
0600	49	120	56	44	74	3	1	1	17	0	4

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **PALLAS**  
 Tributary of : 25L02 LITTLE BROSNA  
 OS Grid Ref of Confluence: M 998 095  
 Date(s) Surveyed: 29/8/2008

**25/P/01**

OS Catchment No: 155

Station Nos.	Biological Quality Ratings (Q Values)						
	1987	1993	1996	1999	2002	2005	2008
0300	4-5	3-4	3	3	2-3	3-4	-
0500	5	4	3-4	3	3	4	3-4

**Assessment:** An unwelcome decline in ecological quality was evident on the Pallas stream in 2008. The unbalanced macroinvertebrate fauna, rich macrophyte growth, heavy siltation and low dissolved oxygen concentrations indicated unsatisfactory ecological conditions at station 0500.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Br SE of New Grove nr Holy Well	196828	206426	53	TY
0500	Nr Church d/s Pallas Br	199911	207182	53	TY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	42	15	0	100	71	0	2	0	21	0	7
0500	36	29	0	100	74	0	4	0	18	0	3

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **POLLAGH STREAM (BROSNA)** **25/P/05**  
 Tributary of : 25B09 BROSNA OS Catchment No: 155  
 OS Grid Ref of Confluence: N 189 257  
 Date(s) Surveyed: 14/10/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1989	1993	1996	1999	2002	2005	2008
0300	4	3-4	4	3-4	4	4	3-4

**Assessment:** The Pollagh Stream was in an unsatisfactory ecological condition in 2008. The paucity of sensitive macroinvertebrate species coupled with low dissolved oxygen concentrations indicated a decline in ecological status at the station located upstream of the Brosna river confluence (0300).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Br u/s Brosna R confl	219214	225009	48	OF

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	46	34	0	100	50	0	31	0	6	0	13

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **RAPEMILLS**  
 Tributary of : 25S01 SHANNON (Lower)  
 OS Grid Ref of Confluence: M 999 157  
 Date(s) Surveyed: 29/8/2008

**25/R/01**

OS Catchment No: 155

Station Nos.	Biological Quality Ratings (Q Values)		
	1984	1987	2008
0100	4	4	-
0200	4	4	-
0300	4-5	4-5	3-4
0400	4	4-5	-
0500	4-5	3-4	-

**Assessment:** Unsatisfactory conditions were evident at Rapemills (0300) in 2008. The macroinvertebrate fauna indicated a decline in ecological status from high status when last surveyed in 1987 to the present moderate status.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br nr Eglis Castle	209977	209683	53	OF
0200	Boolarig Br	207522	209359	53	OF
0300	Br at Rapemills	204747	210192	53	OF
0400	All Saints Br	202628	211374	53	OF
0500	Lusmagh Br	200172	214613	53	OF

River and Code : **SHANNON (Lower)**

**25/S/01**

Tributary of : Sea Shannon Estuary

OS Catchment No: 155

OS Grid Ref of Confluence: R 580 600

Date(s) Surveyed: 1/10/2008, 2/9/2008

Station Nos.	Biological Quality Ratings (Q Values)								
	1972	1984	1987	1990	1993	1996	1999	2002	2008
2060	-	-	-	-	-	-	-	-	3-4
2500	4-5	4	4	4	3-4	3-4	3-4	4	3-4
2600	-	4	4	4	3-4	3-4	3-4	3-4	-

**Assessment:** The lower Shannon River was in an unsatisfactory ecological condition in 2008. Although macroinvertebrate diversity increased, pollution tolerant species dominated the fauna at Incherky Quay (2060) indicating a decline in ecological status. Excessive siltation and low dissolved oxygen concentrations were also noted. Ecological conditions remain unsatisfactory at Castleconnell (2500) with a paucity of sensitive macroinvertebrate taxa and excessive macrophyte and algal production evident again in 2008.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
2060	Incherky Quay (RHS)	195210	214290	53	OF
2500	Castleconnell: World's End	165836	163576	58	LK
2600	Athlunkard Br (d/s LHS)	158805	159031	65	LK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
2060	N/A	0	0	0	0	0	0	0	0	0	0
2500	22	4119	25	75	63	4	10	1	10	4	7
2600	1	4933	30	70	64	5	9	2	10	3	8

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **SHINRONE STREAM**

**25/S/11**

Tributary of :

OS Catchment No:

OS Grid Ref of Confluence:

Date(s) Surveyed: 3/9/2008

Biological Quality Ratings (Q Values)

**Station Nos.** **2008**  
0100 2\*

**Assessment:** Serious pollution was evident (0100) on the Shinrone Stream in 2008. The dominance of pollution tolerant taxa, excessively heavy instream siltation, excessive macrophyte growth and low dissolved oxygen concentrations indicated significant ecological disturbance at this location. Agriculture and forestry suspected.

<b>Station No.</b>	<b>Stations Location</b>	<b>National X</b>	<b>Grid Ref. Y</b>	<b>Discovery Series No.</b>	<b>County Code</b>
0100	Fortified House Bridge on R491	204735	192430	53	OF



River and Code : **SILVER (KILCORMAC)**

**25/S/02**

Tributary of : 25B09 BROSNA

OS Catchment No: 155

OS Grid Ref of Confluence: N 139 224

Date(s) Surveyed: 1/9/2008, 16/10/2008, 27/8/2008

Station Nos.							Biological Quality Ratings (Q Values)				
	1971	1974	1981	1984	1987	1993	1996	1999	2002	2005	2008
0100	-	-	5	5	5	4	4	4-5	4-5	4-5	4
0200	-	-	5	5	4-5	3-4	4-5	4	4	4-5	3-4
0300	5	5	5	5	4-5	-	-	-	-	-	-
0320	-	-	-	-	-	3-4	3-4	3	3	3-4	-
0400	4	4-5	4	3-4	3-4	3-4	3-4	4	-	3-4	3-4
0500	-	-	4	3-4	4	4	4	4	4-5	4	3-4
0600	4	4	4	5	4	-	-	-	-	-	-
0700	4-5	4	4	4-5	4	4	4	4	4	4	4

**Assessment:** A general decline in the ecological quality of the Silver (Kilcormac) River was evident in 2008, with only two (0100 and 0700) of the five locations surveyed remaining at satisfactory ecological status. The macroinvertebrate fauna indicated an unwelcome decline from high to good status at Cadamstown (0100) and further from high to moderate status at Ballynacarrig Bridge (0200). Quality declined at Wooden Bridge (0500) with reduced dissolved oxygen concentrations noted at this location and at Ballynacarrig Bridge (0200).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br at Cadamstown	222734	208487	54	OF
0200	Ballynacarrig Br	222578	213611	54	OF
0300	Br at Ballyboy	0	0	54	OF
0320	East Br Kilcormac	218555	214098	54	OF
0400	Br 1km d/s Kilcormac	217720	214683	54	OF
0500	Wooden Br	212737	214317	54	OF
0600	Millbrook Br	0	0	54	OF
0700	Lumcloon Br	213899	219802	54	OF

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	130	13	100	0	7	24	49	0	13	0	7
0200	74	82	47	53	57	12	14	0	8	0	9
0320	60	91	42	57	58	10	13	0	10	0	8
0400	57	92	42	58	59	10	12	1	10	0	8
0500	48	131	29	71	61	7	10	1	14	0	7
0700	45	156	25	75	58	8	14	0	13	0	7

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **SILVER (TULLAMORE)**  
 Tributary of : 25C06 CLODIAGH (TULLAMORE)  
 OS Grid Ref of Confluence: N 245 269  
 Date(s) Surveyed: 10/10/2008, 14/10/2008, 15/10/2008

**25/S/03**

OS Catchment No: 155

Station Nos.	Biological Quality Ratings (Q Values)							
	1984	1987	1993	1996	1999	2002	2005	2008
0050	-	4	-	-	-	-	-	-
0055	-	4	4	4	3-4	-	-	-
0100	4-5	3-4	4	3	3	3*	3-4	3-4
0200	-	-	3-4	-	-	-	-	-
0300	4-5	4	4	4	4	3*	3-4	3-4
0400	4	4	-	-	-	-	-	-
0500	-	-	3-4	3	3-4	3-4	3-4	3-4

**Assessment:** Unsatisfactory ecological conditions persist. The paucity of sensitive macroinvertebrate species and dominance of pollution tolerant taxa continues to indicate ecological disruption at the three locations (0100, 0300 and 0500) surveyed in 2008. Bridge and bank works were ongoing at Gormagh Bridge (0100). Heavy siltation was noted in the lower reaches (0300 and 0500).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Derrygolan Br (LH Chan)	0	0	48	OF
0055	Derrygolan Br (RH Chan)	236283	229804	48	OF
0100	Gormagh Br	233905	228531	48	OF
0200	Ballyduff Br	0	0	48	OF
0300	Br N of Aharney	228944	228602	48	OF
0400	Br E of Derries	0	0	48	OF
0500	New Br u/s Clodiagh R confl	225116	227363	48	OF

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0055	72	32	0	100	75	0	17	0	4	0	3
0100	60	41	0	100	77	0	14	1	6	0	2
0300	52	61	0	100	73	2	9	3	10	0	2
0500	48	76	0	100	75	2	9	2	9	0	2

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **SILVERMINES VILLAGE STREAM** 25/S/10  
 Tributary of : 25K04 KILMASTULLA OS Catchment No: 155  
 OS Grid Ref of Confluence: R 807 717  
 Date(s) Surveyed: 11/9/2008

*Kilmastulla 0040 to 0100 incl.*

Station Nos.	Biological Quality Ratings (Q Values)											
	1971	1974	1976	1978	1983	1985	1987	1993	1999	2002	2005	2008
0050	-	-	-	-	-	-	-	-	4	4	4-5	-
0100	4-5	4	4	3-4	3-4	3-4	4	4	-	3	3	3-4

**Assessment:** Unsatisfactory ecological conditions persist downstream of Silvermines Village in 2008. A slight improvement in the macroinvertebrate fauna was noted at Kilmore Bridge (0100). Sewage suspected.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Silvermines Br	184254	171486	59	TY
0100	Kilmore Br	183983	172469	0	TY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	101	2	85	15	22	0	22	11	0	0	45

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **SMALL (TIPPERARY)** **25/S/05**  
 Tributary of : 25N02 NEWPORT (TIPPERARY) OS Catchment No: 155  
 OS Grid Ref of Confluence: R 726 623  
 Date(s) Surveyed: 17/9/2008

Station Nos.	Biological Quality Ratings (Q Values)								
	1979	1983	1987	1993	1996	1999	2002	2005	2008
0100	5	5	5	-	-	-	-	-	-
0200	5	5	5	4	4-5	4-5	3-4*	4-5	4

**Assessment:** Continuing satisfactory although the macroinvertebrate fauna indicated a decline from high to good ecological status in 2008.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br 1.9km u/s Newport	174289	162494	59	TY
0200	Br u/s Newport R confl	174195	162594	59	TY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	91	8	100	0	14	5	6	0	0	0	75
0200	88	9	100	0	16	5	6	0	0	0	73

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **SYONAN CASTLE STREAM**

**25/S/04**

Tributary of : 25G01 GAGEBOROUGH

OS Catchment No: 155

OS Grid Ref of Confluence: N 282 386

Date(s) Surveyed: 18/8/2008, 19/8/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1987	1993	1996	1999	2002	2005	2008
0300	-	4	4-5	3-4	3	4	3-4*
0400	4	-	-	-	-	-	-
0500	4	4	4	3-4	3-4	4	3-4

**Assessment:** An unwelcome decline in ecological status was evident at both locations (0300 and 0500) on the Syonan Castle Stream in 2008. The increased dominance of pollution tolerant taxa, enhanced macrophyte growth, excessive siltation, compaction and heavy calcification of the river bed indicated enriched conditions at both locations.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Br N of Lisnagree (W of Streamstown Ho)	226754	242734	48	MH
0400	Br nr Syonan Castle	0	0	48	MH
0500	Br u/s Gageborough R confl	227993	238859	48	MH

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	90	3	0	100	100	0	0	0	0	0	0
0500	66	12	0	100	89	3	0	0	7	0	0

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **TOEM STREAM**

**25/T/05**

Tributary of : 25D01 DEAD

OS Catchment No: 155

OS Grid Ref of Confluence: R 840 455

Date(s) Surveyed: 23/9/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1987	1993	1996	1999	2002	2005	2008
0300	4	3-4	4	4	4	4	-
0600	4-5	4	4	4	4	4	4*

**Assessment:** Continuing satisfactory in 2008, however heavy instream siltation (0600) was noted.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	South Br at Toem	186718	147503	66	TY
0600	Br u/s Dead R confl	184133	145644	66	LK

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	93	3	100	0	41	4	3	0	51	0	0
0600	56	104	49	51	92	1	0	4	4	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **TULLAMORE**

**25/T/03**

Tributary of : 25C06 CLODIAGH (TULLAMORE)

OS Catchment No: 155

OS Grid Ref of Confluence: N 280 254

Date(s) Surveyed: 14/10/2008, 15/10/2008

Station Nos.	Biological Quality Ratings (Q Values)														
	1971	1975	1977	1981	1986	1987	1989	1990	1993	1996	1999	2002	2005	2007	2008
0030	-	-	-	-	-	-	-	-	3	3	3	3	3	-	3-4
0100	4	3-4	3-4	4	4	3	-	-	4-5	3	3	3	3-4	-	3
0400	1-2	2	1-2	2	2	2	2-3	2-3	2-3	2-3	2	2	2	2-3	2-3

**Assessment:** Unsatisfactory ecological conditions continue in the Tullamore River in 2008. A slight improvement was noted in the upper reaches where although macroinvertebrate species diversity increased, the lack of sensitive taxa continued to indicate ecological disruption. A further decline in status was observed at Springfield Bridge (0100) with low dissolved oxygen concentrations noted. Poor ecological status was again evident downstream of Tullamore (0400) with excessive siltation, macroalgal and macrophyte growth and low dissolved oxygen conditions. Sewage from Geashill and Tullamore is suspected as the most likely cause of the unsatisfactory ecological conditions.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0030	Br d/s Geashill Stream	244474	222320	48	OF
0100	Br S of Cappincur	238697	224074	48	OF
0400	Br near Ballycowan Br	229537	225031	48	OF

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0030	68	10	0	100	65	2	5	3	25	0	0
0100	58	54	0	100	72	0	5	0	19	0	3
0400	52	132	0	100	68	2	6	5	13	0	6

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **YELLOW (KILMASTULLA)**

**25/Y/01**

Tributary of : 25K04 KILMASTULLA

OS Catchment No: 155

OS Grid Ref of Confluence: R 800 200

Date(s) Surveyed: 11/9/2008

Station Nos.	Biological Quality Ratings (Q Values)									
	1974	1976	1978	1981	1983	1985	1987	2002	2005	2008
0200	3/0	2/0	1/0	1/0	3	3-4	3/0	3/0	4-5	-
0300	1/0	1/0	1/0	1/0	3	3/0	3/0	3/0	4	3-4

**Assessment:** The Yellow (Kilmastulla) River was in an unsatisfactory ecological condition downstream of the Garryard Stream confluence (0300) when surveyed in September 2008. The relative scarcity of macroinvertebrate fauna coupled with the complete lack of sensitive macroinvertebrate taxa indicated ecological disruption. Increased siltation was also noted. Lead and zinc levels are known to be high at this location. Note: Station 0200 is reported by Kilkenny Regional laboratory as Kilmastulla Station 0500, Station 0300 (above) as Kilmastulla 0600 and the Garryard Stream (q.v.) is reported as Kilmastulla Station 0400.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	u/s Yellow Br & u/s Garryard Stream	180727	171781	59	TY
0300	d/s Yellow Br & d/s Garryard Stream	180680	171815	0	TY



River and Code : **YOUGHAL (TIPPERARY)**

**25/Y/02**

Tributary of : Lough Derg

OS Catchment No: 155

OS Grid Ref of Confluence: R 798 827

Date(s) Surveyed: 16/9/2008

Station Nos.	Biological Quality Ratings (Q Values)								
	1982	1985	1987	1993	1996	1999	2002	2005	2008
0050	-	4-5	3	4	3	3-4	3-4*	3-4	-
0100	-	5	4-5	-	-	-	-	-	-
0200	5	5	5	4	4	4-5	4-5	4	4

**Assessment:** Satisfactory ecological conditions continue in the lower reaches (0200) in 2008.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Br N of Curragh	176193	180089	59	TY
0100	Ballycarridoge Br	0	0	59	TY
0200	Br at Youghal	179077	182068	59	TY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	111	7	100	0	59	13	15	6	1	0	5
0200	45	15	99	1	75	6	6	3	7	0	4

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

**HYDROMETRIC AREA 26 (Shannon Upper: Partial Survey)**

*Partial Survey Only, Balance of Survey in 2009*

AGHNASHANNAGH STREAM	26A11
AHASCRAUGH	26A01
ANADERRYBOY	26A03
ARIGNA (ROSCOMMON)	26A02
BALLYMORE STREAM	26B33
BELLAVALLY STREAM *	26B32
BLACK (SOUTH LEITRIM)	26B04
BLACK (WESTMEATH)	26B05
BOLEYBAUN STREAM *	26B30
BOOR	26B07
BOYLE	26B08
BREEDOGE	26B09
BREENSFORD	26B10
CAMLIN	26C01
CARRICKNABRAHER	26C02
CASTLEGAR	26C03
CLOGHER (ROSCOMMON)	26C18
CLOONCOOSE STREAM	26C20
CLOONE	26C05
CLOONEIGH	26C06
CLOONFLOWER STREAM	26C21
COMOGE	26C12
CREELAGHTA	26C22
CUILLEEN STREAM	26C17
CURRAGHROE STREAM	26C15
DERRYHIPPOO	26D01
DERRYMULLAN STREAM	26D07
DERRYNANANTA STREAM *	26D23
DIFFAGHER	26D02
DRUMSHANBO STREAM	26D05
DUNGOLMAN	26D06
ESLIN	26E01
FALLAN	26F01
FARDRUMMAN STREAM	26F06
FEORISH (BALLYFARNON)	26F02
FEORISH (TARMONBARRY)	26F03
FRANCIS	26F05
GAINÉ	26G01
GLORE (WESTMEATH)	26G02
GOWLAUNREVAGH *	26G12
HIND	26H01
INNY	26I01
ISLAND	26I03
# JIGGY (HIND) *	26J01
KILLADISKERT STREAM *	26K16
KILLEGLAN	26K04
KILLIAN	26K01

**HYDROMETRIC AREA 26 (Shannon Upper: Partial Survey)**

*Partial Survey Only, Balance of Survey in 2009*

KILLUKIN	26K02
KILMACRICARD *	26K17
KILMACTRANNY	26K03
KILTACLARE STREAM	26K06
KINARD	26K07
LENAMORE STREAM	26L06
LISDALY STREAM	26L02
LISSAPHOBLE	26L04
LISSYDALY STREAM	26L10
LUNG	26L03
MANTUA STREAM *	26M13
MOUNTAIN (ROSCOMMON)	26M03
MOUNTNUGENT	26M02
MULLENMEEHAN STREAM *	26M12
OWENGAR (LEITRIM)	26O02
OWENMORE (GLANGEVLIN)	26O03
OWENNAFOREESHA	26O04
OWENNAYLE	26O05
OWENUR	26O06
RATH	26R01
RELAGH	26R05
RHINE	26R04
RINN	26R02
ROCKSAVAGE *	26R07
SCRAMOGE	26S01
SHANNON (UPPER)	26S02
SHIVEN (SOUTH)	26S03
SMAGHRAAN	26S04
SPRINGFIELD	26S05
STROKESTOWN	26S08
SUCK	26S07
TERMON STREAM	26T03
YELLOW (BALLINAGLERA)	26Y01
YELLOW (CASTLEPOLLARD)	26Y02

# indicates rivers having seriously polluted stretches at time of this survey.

- \* BELLAVALLY STREAM Formerly Bellavalley Branch of Owenmore (Glengevlin) 26O03
- \* BOLEYBAUN STREAM Previously reported as the Boleybaun Branch of the Diffagher - 26D02
- \* DERRYANANTA STREAM Formerly Derrynananta Branch of Owenmore (Glengevlin) 26O03
- \* GOWLAUNREVAGH Initially called Owengar 0050 .
- \* JIGGY (HIND) Previously reported as North Branch on Hind 26H01
- \* KILLADISKERT STREAM Formerly known as Killadiskert Branch of Diffagher - 26D020600
- \* KILMACRICARD Previously reported as East Branch on Springfield 26S05
- \* MANTUA STREAM Previously reported as Mantua Branch of the Owenur 26O06
- \* MULLENMEEHAN STREAM Formerly East Branch Of Dungolman River 26D06
- \* ROCKSAVAGE Previously reported as South Branch on Hind 26H01

River and Code : **AGHNASHANNAGH STREAM** 26/A/11  
 Tributary of : 26C01 CAMLIN OS Catchment No: 155  
 OS Grid Ref of Confluence: N 227 812  
 Date(s) Surveyed: 23/7/2008

Station Nos.	Biological Quality Ratings (Q Values)					
	1992	1996	1999	2002	2005	2008
0300	-	5	4	4	4	4*
0400	4-5	-	-	-	-	-

**Assessment:** Hydromorphologically adversely impacted by watering cattle and ford but ecological quality remains satisfactory when surveyed in July 2008.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Aghaward Br	223164	282259	34	LD
0400	Br u/s Camlin R confl	222631	281149	34	LD

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	59	6	99	1	84	7	2	0	0	0	7

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **AHASCRAUGH**

**26/A/01**

Tributary of : 26S07 SUCK

OS Catchment No: 156

OS Grid Ref of Confluence: M 837 329

Date(s) Surveyed: 18/9/2008, 19/9/2008

Station Nos.	Biological Quality Ratings (Q Values)								
	1980	1983	1986	1987	1992	1996	1999	2002	2008
0050	4	3-4	4	4	3-4	4	4	3-4	4
0200	5	4	4	4	3-4	3-4	4	4	4
0400	3	3-4	4	3	3-4	4	4	3-4	3
0500	5	4	4	4	4	3	4	3	4

**Assessment:** The upper Ahascragh had improved in comparison with 2005 and is now in satisfactory condition (0050, 0200). A deterioration was noted at station 0400 but status had improved at the last station surveyed (0500) which is now at good ecological status.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Annagh Bridge	168945	237538	46	GY
0200	Island Bridge	175242	240469	47	GY
0400	3 km d/s Ahascragh	178996	236841	47	GY
0500	Bunowen Bridge	183182	233359	47	GY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	69	6	0	100	90	0	0	0	10	0	0
0200	53	89	0	100	75	4	9	0	8	0	4
0400	45	105	0	100	75	4	8	1	8	0	5
0500	40	136	0	100	71	4	10	0	8	0	6

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **ANADERRYBOY**

**26/A/03**

Tributary of : Lung

OS Catchment No: 155

OS Grid Ref of Confluence: M 604 887

Date(s) Surveyed: 28/7/2008

Station Nos.	Biological Quality Ratings (Q Values)								
	1981	1984	1987	1992	1996	1999	2002	2005	2008
0100	5	5	4	4-5	4	4	4	4	4
0400	5	5	4	5	4-5	4	4	4	4
0600	-	-	-	-	4-5	4	4-5	4	4-5

**Assessment:** Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Cloonroe Bridge	152955	287834	32	RN
0400	Bridge d/s Cloonagh Lough	155585	286032	32	RN
0600	Driney Br	160675	287389	32	RN

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	84	10	0	100	25	0	46	0	10	11	8
0400	88	26	0	100	27	1	57	0	4	8	3
0600	76	91	17	83	34	2	51	1	4	3	5

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **ARIGNA (ROSCOMMON)**

26/A/02

Tributary of : 26S02 SHANNON (Upper)

OS Catchment No: 155

OS Grid Ref of Confluence: G 962 125

Date(s) Surveyed: 5/9/2008

Station Nos.	Biological Quality Ratings (Q Values)							
	1984	1987	1992	1996	1999	2002	2005	2008
0100	5	4	4-5	3	4	4-5	4-5	2*
0300	3-4	4	3	4	3-4	4	4	2*

**Assessment:** The Arigna (Roscommon) suffered almost total wipeout of all macroinvertebrates due to a major landslide/bog burst in the upper catchment in mid August 2008. This event also affected the Owengar River (q.v.). Road building in connection with a wind farm development appears to be the trigger in association with an extremely heavy rainfall event. A number of other similar events occurred in summer 2008 and it emphasizes the importance of the need for careful land use management especially on hillsides and in anticipation of events like this perhaps driven by climate change and which may become more common in future.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	At Altagowlan School	190038	316949	26	RN
0300	Mount Allen Bridge	194764	313131	26	RN

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	113	23	0	100	0	41	26	1	0	0	32
0300	52	48	0	100	12	20	32	0	12	0	23

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BALLYMORE STREAM**

**26/B/33**

Tributary of : 26D06 DUNGOLMAN

OS Catchment No:

OS Grid Ref of Confluence:

Date(s) Surveyed: 12/8/2008

Biological Quality Ratings (Q Values)

**Station Nos.** **2008**  
0300 3

**Assessment:** The Ballymore Stream was in an unsatisfactory ecological condition when surveyed in August 2008. The lack of sensitive macroinvertebrate fauna coupled with enhanced weed growth and excessive siltation indicated significant ecological disruption downstream of Ballymore village (0300). Sewage suspected source of pollution.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Br SW of Ballymore (d/s Ballymore STW)	221219	248414	48	WH

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	N/A	0	0	0	0	0	0	0	0	0	0

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.



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River and Code : **BELLAVALLY STREAM** **26/B/32**  
 Tributary of : 26O03 OWENMORE (GLANGEVLIN) OS Catchment No: 155a  
 OS Grid Ref of Confluence: H 083 256  
 Date(s) Surveyed: 10/7/2008

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*Formerly Bellavalley Branch of Owenmore (Glangevlin) 26O03*

Station Nos.	Biological Quality Ratings (Q Values)						
	1987	1992	1996	1999	2002	2005	2008
0120	5	4-5	5	4-5	5	4-5	4-5*

**Assessment:** The Bellavally Stream was in a highly satisfactory ecological condition when surveyed in July 2008. Excessive instream siltation was however noted. Unrestricted livestock access upstream and a severely poached field upstream could be contributing to the excessive siltation observed.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0120	Br SE of Carty's Br	208900	325600	26	CN

River and Code : **BLACK (SOUTH LEITRIM)**

**26/B/04**

Tributary of : 26R02 RINN

OS Catchment No: 155

OS Grid Ref of Confluence: N 101 874

Date(s) Surveyed: 18/7/2008, 22/7/2008

Station Nos.	Biological Quality Ratings (Q Values)								
	1980	1984	1987	1992	1996	1999	2002	2005	2008
0070	-	-	5	4	4	4	-	-	-
0080	-	-	5	3	3-4	4	4-5	4	4*
0100	5	5	5	4	4	4	4-5	4-5	4*
0200	5	4-5	5	4	4-5	4-5	4-5	4	4
0300	5	5	5	4-5	4-5	4-5	4-5	4-5	4-5

**Assessment:** The Black (Leitrim) River remains in a satisfactory ecological condition in 2008. An unwelcome decline from high to good ecological status at station 0100 (Bridge near Breanriscullew) was noted with excessive siltation also observed. Excessive siltation was also noted downstream of Ballinamuck (0080). Some signs of enrichment were also evident in particular at Bellantra Bridge (0200) with abundant weed growth, excessive siltation and low dissolved oxygen concentrations noted. Although the macroinvertebrate fauna indicated highly satisfactory conditions at station 0300 (upstream of the Rinn river confluence), excessive siltation and low dissolved oxygen concentrations were also noted at this location in July 2008.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0070	Br NW of Ballinamuck	218350	291067	34	LD
0080	Br SW of Ballinamuck	217754	290254	34	LD
0100	Br nr Breanriscullew	216006	288620	34	LD
0200	Bellantra Br	212864	289460	34	LM
0300	Br u/s Rinn R confl	210768	286941	33	LM

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0070	57	11	88	12	65	0	32	0	0	3	0
0080	55	15	78	22	64	0	31	0	2	3	0
0100	49	54	74	26	76	0	17	0	3	2	2
0200	43	90	62	38	78	0	16	0	3	1	2
0300	40	104	55	45	78	0	17	0	3	1	1

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BLACK (WESTMEATH)**

26/B/05

Tributary of :

OS Catchment No: 155

OS Grid Ref of Confluence: N 335 636

Date(s) Surveyed: 30/7/2008

Station Nos.	Biological Quality Ratings (Q Values)															
	1977	1980	1982	1984	1986	1987	1988	1989	1990	1992	1994	1996	1999	2002	2005	2008
0045	-	-	-	-	-	1-2	1	1-2	1	1	1	1	1	3	2-3	-
0050	-	-	-	-	-	2	2	2	1-2	1-2	1-2	-	-	-	-	-
0100	-	3-4	1	1-2	2	2	2	1-2	2	1-2	1-2	2	2-3	2-3	2-3	-
0120	-	-	-	-	-	3	3	2	2-3	3	2-3	-	-	-	-	-
0140	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-
0180	-	-	-	-	-	3-4	-	-	1	3	-	3	3	3	3	-
0200	-	4	3	3	3	3-4	-	-	-	3	-	-	-	-	-	-
0300	3	4	4	3	3	4	-	-	-	3	-	-	-	-	-	-
0400	-	-	-	-	-	-	-	-	-	-	-	3-4	3-4	3-4	4	4

**Assessment:** The Black (Westmeath) River remained in a satisfactory ecological condition in the lowermost reaches (0400) when surveyed in July 2008. Some signs of enrichment were evident with enhanced macrophyte growth and excessive siltation noted at Ardglass Bridge.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0045	Ballymahon Rd Br Edgeworthstown	225571	271870	41	LD
0050	Br nr Edgeworthstown Ry Sta	225964	271182	41	LD
0100	Br nr Ballinlaghta	226588	270202	41	LD
0120	Br WNW Gneeve	227316	269932	41	LD
0140	Br N Lissanure	227758	269278	41	LD
0180	Br SE of Lissanure (5th Br d/s St 0100)	228155	268482	41	LD
0200	Br WSW of Rathowen	230214	267215	41	MH
0300	Ardglass Br	232290	264888	41	WH
0400	0.25 km d/s Ardglass Bridge .	232468	264701	41	WH

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0045	92	4	0	100	94	0	0	6	0	0	0
0100	74	11	0	100	95	1	0	4	0	0	0
0180	70	18	0	100	86	0	11	2	0	0	0
0200	66	49	0	100	82	2	10	1	2	0	3
0400	62	54	0	100	82	2	9	1	1	0	5

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

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River and Code : **BOLEYBAUN STREAM** **26/B/30**  
 Tributary of : 26D02 DIFFAGHER OS Catchment No: 155  
 OS Grid Ref of Confluence: G 909 261  
 Date(s) Surveyed: 5/9/2008

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*Previously reported as the Boleybaun Branch of the Diffagher - 26D02*

Station Nos.	Biological Quality Ratings (Q Values)						
	1987	1992	1996	1999	2002	2005	2008
0400	3-4	4-5	4-5	4-5	4	4	4

**Assessment:** Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0400	Br N Cloonamurgal	190481	326618	0	

River and Code : **BOOR**  
 Tributary of : 26S02 SHANNON (Upper)  
 OS Grid Ref of Confluence: N 053 345  
 Date(s) Surveyed: 21/8/2008

**26/B/07**  
 OS Catchment No: 155

Station Nos.	1988	1992	1996	1999	Biological Quality Ratings (Q Values)		
					2002	2005	2008
0600	3	4	3	3	-	n/s	-
0800	3	-	-	-	-	-	-
0900	-	-	-	-	3-4	4	-
1100	4	4	4	-	-	-	3-4*
1200	-	-	-	-	4	4	-

**Assessment:** The paucity of sensitive macroinvertebrate species indicated unsatisfactory ecological conditions in the lower reaches of the Boor River (1100) when surveyed in August 2008. Heavy siltation of the river bed was also evident.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0600	Br near Castledaly Chapel	212785	236018	48	WH
0800	Br at Ballinlassy	211187	235324	47	WH
0900	Br E of Ballinlassy	210717	235376	47	WH
1100	Br at Kilbillaghan	209808	234966	47	WH
1200	Br NW of Ballynahownwood	208310	234890	47	WH

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0600	49	15	32	68	100	0	0	0	0	0	0
1100	39	53	15	85	84	0	14	0	0	0	2

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BOYLE**  
 Tributary of :  
 OS Grid Ref of Confluence: G 927 020  
 Date(s) Surveyed: 1/8/2008

**26/B/08**  
 OS Catchment No: 155

Station Nos.	Biological Quality Ratings (Q Values)												
	1971	1974	1978	1980	1983	1987	1992	1996	1999	2000	2002	2005	2008
0100	-	-	-	5	4	4-5	4	4	4	-	4	4	4
0200	5	5	5	5	4-5	4-5	4	4	4	-	4-5	4	4
0400	5	-	3-4	3-4	4	4	4	4	4	4	4	4-5	-
0600	5	5	-	5	4-5	-	4	4	4	-	4	4	-

**Assessment:** The upper Boyle surveyed in 2008 was satisfactory at both sites surveyed.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Cuppanagh Bridge	173418	301105	33	RN
0200	Footbridge 1.8 km u/s Boyle	178850	301850	33	RN
0400	Drum Bridge (Boat House Ford)	181616	303934	33	RN
0600	Cootehall Bridge	189429	303673	33	RN

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	60	0	0	100	100	0	0	0	0	0	0
0200	56	504	12	88	51	1	23	0	9	4	11
0400	44	525	13	87	51	1	22	1	11	3	11
0600	40	585	14	86	51	2	20	1	11	5	11

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BREEDOGE**  
 Tributary of :  
 OS Grid Ref of Confluence: M 725 960  
 Date(s) Surveyed: 2/10/2008

**26/B/09**  
 OS Catchment No: 155

Station Nos.	Biological Quality Ratings (Q Values)									
	1981	1983	1987	1992	1996	1999	2002	2005	2008	
0300	5	4	4	4	4-5	4	4	4	4	

**Assessment:** Satisfactory - no change.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Breedoge Bridge	174465	294722	33	RN

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	69	144	0	100	60	1	15	0	6	0	18

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BRENSFORD**

**26/B/10**

Tributary of :

OS Catchment No: 155

OS Grid Ref of Confluence: N 073 444

Date(s) Surveyed: 12/8/2008, 21/8/2008

Station Nos.	Biological Quality Ratings (Q Values)							
	1984	1988	1992	1996	1999	2002	2005	2008
0100	4	4	3-4	3-4	3-4	3-4	3-4	3*
0200	5	4	-	-	-	-	-	-
0300	-	-	3-4	-	-	-	-	-
0400	4	5	4	3-4	3-4	3-4	3-4	3-4

**Assessment:** The Breensford River continued to be in an unsatisfactory ecological condition in 2008. The macroinvertebrate fauna, abundant macrophyte and macroalgal production and heavy siltation indicated eutrophic conditions upstream of Lough Twy (0100). Although macroinvertebrate faunal diversity increased, the lack of sensitive macroinvertebrate species at Ballykeeran (0400) continued to indicate ecological disruption in August 2008.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br u/s Twy Lough	210431	244499	47	MH
0200	1st Br d/s Twy Lough	0	0	47	MH
0300	2nd Br d/s Twy Lough	0	0	47	MH
0400	Br in Ballykeeran	207368	244331	47	MH

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	47	35	0	100	81	2	4	3	2	1	8
0400	38	56	0	100	76	3	8	2	1	0	8

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.



River and Code : **CAMLIN**  
 Tributary of : 26S02 SHANNON (Upper)  
 OS Grid Ref of Confluence: N 057 760  
 Date(s) Surveyed: 23/7/2008, 24/7/2008

**26/C/01**

OS Catchment No: 155

Biological Quality Ratings (Q Values)

Station Nos.	1971	1973	1975	1977	1979	1981	1983	1985	1987	1989	1990	1992	1994	1996	1999	2002	2005	2008
0050	-	-	-	-	-	-	-	-	4	-	-	3-4	-	3-4	3-4	3-4	3-4	-
0100	-	-	-	-	-	4	4-5	4	4	-	-	-	-	-	-	-	-	-
0200	-	-	-	-	-	3-4	3-4	4	4-5	-	-	4	-	4	4	4	4	4
0300	4-5	4	4	3-4	3-4	3	3-4	3	3-4	-	-	3-4	-	-	-	-	-	-
0400	-	-	-	-	-	3-4	4-5	4-5	4-5	-	-	-	-	4-5	4	4	4	-
0500	-	-	-	-	-	4	3-4	4	4-5	-	-	3-4	-	-	-	-	-	-
0600	4-5	-	-	-	-	4	4-5	4-5	4-5	-	-	4	-	3-4	3-4	4-5	4	3-4
0700	-	4-5	4-5	4	4	5	4-5	4-5	4-5	-	-	4	-	4	4	4-5	4-5	-
0800	-	-	-	-	-	4	4-5	4-5	4-5	-	-	3-4	-	3-4	4	4	4	3-4
0900	1	1	1	1	1	1	1	2	2	1	1	1	3	3	3-4	2-3	3-4	-
1000	1	1	1	1/0	1	1	1-2	2	3	1/0	1	1	3	3	3	2-3	2-3	2-3
1100	2-3	3-4	3	2-3	1-2	1-2	2	2	3	2	2-3	2-3	-	3	3	3	3-4	3-4
1200	-	-	-	-	-	-	-	-	-	-	-	2-3	3	-	-	-	-	-

**Assessment:** The Camlin River was in an unsatisfactory ecological condition over most of its course in 2008. Conditions remained satisfactory at Ballinalee Bridge (0200). The macroinvertebrate communities indicated an unwelcome decline in ecological status at Argar Bridge (0600) and at Longford (0800) in July 2008. No improvement was noted in the lower reaches at Ballykenny Bridge (1000) and at Clondra (1100) where abundant growths of macroalgae and excessive siltation were observed.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Br d/s Cloonfin Lough	226068	279759	41	LD
0100	Br u/s Ballinalee Br	0	0	0	LD
0200	Ballinalee Br	222724	280945	34	LD
0300	Soran Br	222021	280849	34	LD
0400	Kilnacarrow Br	221296	280293	34	LD
0500	Br N of Farragh Crossroads	0	0	0	LD
0600	Argar Br	218149	279413	41	LD
0700	Br nr Kiltyreher	216494	277962	41	LD
0800	The Mall Br Longford	213818	275830	41	LD
0900	Br 1.8 km d/s Longford Br	211697	275913	40	LD
1000	Br W of Lisnabo	209490	277819	40	LD
1100	S Br Clondra	206220	275786	40	LD
1200	0.5 km d/s S Br. Clondra	0	0	40	LD

## *Hydrometric Area 26 (2008)*

*Site Altitude and Upstream Catchment Characteristics (where available):*

<b>Site No.</b>	<b>Alt</b>	<b>Area</b>	<b>Sil</b>	<b>Cal</b>	<b>Pasture</b>	<b>Forestry</b>	<b>Bogs</b>	<b>Urban</b>	<b>Misc Ag.</b>	<b>Water</b>	<b>Other</b>
0050	56	41	1	99	90	1	5	0	2	0	3
0200	47	73	9	91	88	3	3	0	2	0	4
0300	46	84	18	82	88	3	3	0	2	0	4
0400	46	92	22	78	89	3	3	0	2	0	4
0600	45	122	23	77	89	2	3	0	2	0	4
0700	44	149	21	79	88	2	3	0	2	0	4
0800	42	202	18	82	89	2	3	0	2	0	3
0900	42	253	15	85	88	2	4	1	2	0	3
1000	40	261	15	85	88	2	4	1	2	0	3
1100	42	0	0	100	100	0	0	0	0	0	0

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CARRICKNABRAHER**

**26/C/02**

Tributary of : 26B09 BREEDOGE

OS Catchment No: 155

OS Grid Ref of Confluence: M 762 902

Date(s) Surveyed: 2/10/2008

Station Nos.	Biological Quality Ratings (Q Values)								
	1980	1983	1987	1992	1996	1999	2002	2005	2008
0100	4	4	4-5	4	3-4	4	3-4	3-4	4
0200	3	4	-	3	3-4	3-4	3	3	4

**Assessment:** A big improvement in quality was noted in the Carricknabraher at both sites surveyed.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Cloonshanville Bridge	173700	290316	33	RN
0200	U/s Owennaforeesha River	176152	290246	33	RN

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	72	19	0	100	35	0	26	0	11	0	29
0200	69	33	0	100	40	0	27	1	6	0	26

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CASTLEGAR**  
 Tributary of : 26S03 SHIVEN (SOUTH)  
 OS Grid Ref of Confluence: M 704 482  
 Date(s) Surveyed: 18/9/2008

**26/C/03**

OS Catchment No: 156

Station Nos.	Biological Quality Ratings (Q Values)									
	1979	1981	1983	1987	1992	1996	1999	2002	2005	2008
0080	-	-	-	3	4	2-3	4	4	4	-
0100	3	4	4	3	3-4	2-3	3	3	4	3-4
0200	2	3	4	3	3	3	3	3	3	3

**Assessment:** Eutrophication was evident in Mountbellew (0100) due primarily to upstream agricultural pressures in the catchment and the lower site (0200) was again moderately polluted downstream of the Mountbellew wastewater treatment plant.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0080	Bridge E.S.E. of Rahins	165849	243378	46	GY
0100	Mountbellew Bridge	166703	246769	46	GY
0200	Canavan's Bridge	167276	247620	46	GY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0080	72	16	0	100	77	0	4	0	9	0	10
0100	61	51	0	100	69	1	8	0	12	0	11
0200	57	66	0	100	65	3	11	0	10	0	10

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CLOGHER (ROSCOMMON)**

**26/C/18**

Tributary of :

OS Catchment No: 155

OS Grid Ref of Confluence: G 895 015

Date(s) Surveyed: 24/9/2008

Station Nos.	Biological Quality Ratings (Q Values)								
	1989	1990	1991	1992	1996	1999	2002	2005	2008
0500	2	2-3	3	3	3	2-3	3	3	3
0900	-	-	-	4	3	3-4	-	3	3-4

**Assessment:** The upper Clogher (0500) was moderately polluted in September 2008 but the lower station (0900) showed an improvement on 2005 but still slightly polluted. Unsatisfactory over the length surveyed.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0500	Br just d/s Clogher Lough	184956	298403	33	RN
0900	1st Br u/s Drumharlow L. SSW of Us	188879	300964	33	RN

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0500	82	15	0	100	67	2	1	0	15	7	8
0900	45	28	0	100	78	1	1	0	12	4	4

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CLOONCOOSE STREAM**

**26/C/20**

Tributary of : 26C01 CAMLIN

OS Catchment No: 155

OS Grid Ref of Confluence: N 140 770

Date(s) Surveyed: 23/7/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1987	1992	1996	1999	2002	2005	2008
0200	3	-	-	-	-	-	-
0300	3	3	3-4	4	4	4	4*
0500	3	3-4	3	4	4	4	-

**Assessment:** Ecological quality was satisfactory at Cartron Bridge (0300) on the Clooncloose Stream in July 2008. Heavy instream siltation was however again evident.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br SW of Corboy	0	0	41	LD
0300	Cartron Br NW of Lissavaddy	217364	276026	41	LD
0500	Br u/s Camlin R confl	214799	276697	41	LD

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	60	8	0	100	95	0	0	0	5	0	0
0500	49	32	1	99	89	2	6	0	3	0	1

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CLOONE**

26/C/05

Tributary of :

OS Catchment No: 155

OS Grid Ref of Confluence: N 109 941

Date(s) Surveyed: 11/7/2008, 16/7/2008

Station Nos.	Biological Quality Ratings (Q Values)								
	1980	1984	1987	1992	1996	1999	2002	2005	2008
0050	-	-	5	3-4	-	-	-	-	-
0100	4-5	4-5	5	4	4	4	4	4	4-5
0200	4-5	3-4	5	4	-	-	-	-	-
0250	-	-	-	-	4-5	4	4-5	4	-
0300	4-5	4-5	4-5	-	-	-	-	-	-
0400	5	5	5	4	4-5	4-5	4-5	4-5	3-4

**Assessment:** The upper reaches (0100) of the Cloone River were in a highly satisfactory ecological condition in 2008. An unwelcome decline in ecological quality was noted in the lower reaches at Lurga Bridge (0400) where although the macroinvertebrate fauna was highly diverse some ecological imbalance was evident. Enhanced weed growth indicated some enrichment at stations 0100 and 0400.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Br E of Greagh Crossroads	214686	304484	34	LM
0100	Wooden Br SE of Tooma	215614	301354	34	LM
0200	Br 1.5 km S of Cloone	214110	298765	34	LM
0250	Br u/s Relagh R confl	213538	298341	34	LM
0300	Br at Riverstown	212180	297970	34	LM
0400	Lurga Br	211296	296070	33	LM

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	65	6	0	100	0	5	0	0	65	0	30
0100	55	48	23	77	5	1	2	0	83	3	7
0250	46	71	22	78	19	0	3	0	68	2	7
0400	44	117	13	87	18	0	4	0	70	2	6

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CLOONEIGH**  
 Tributary of : Lough Ree  
 OS Grid Ref of Confluence: M 951 650  
 Date(s) Surveyed: 15/8/2008

**26/C/06**  
 OS Catchment No: 155

Station Nos.	Biological Quality Ratings (Q Values)							
	1984	1987	1992	1996	1999	2002	2006	2008
0030	-	-	-	-	-	3-4	4	-
0040	-	-	-	4	3-4	-	-	-
0100	4	4	4	-	-	-	-	-
0200	4	3-4	4	2-3	3	4	4	4

**Assessment:** Satisfactory where sampled in August 2008.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0030	Br S Drumdaff	191089	269426	40	RN
0040	Br SE Lisgobbin	192783	267840	40	RN
0100	Br NE Tonlegee	193250	267170	40	RN
0200	Clooneigh S of Derryturk	194328	265466	40	RN

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0040	44	13	0	100	89	0	2	0	9	0	0
0200	39	44	0	100	85	1	11	0	4	0	0

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.



River and Code : **CLOONFLOWER STREAM**

**26/C/21**

Tributary of : 26S07 SUCK

OS Catchment No: 156

OS Grid Ref of Confluence: M 623 814

Date(s) Surveyed: 30/7/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1989	1992	1996	1999	2002	2005	2008
0200	4-5	4	3	3-4	4	4	3-4

**Assessment:** Unsatisfactory. A drop in quality was noted in this tributary of the River Suck.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br SW Cloonflower	160106	282594	32	RN

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	76	20	0	100	23	2	61	0	15	0	0

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **COMOGE**  
 Tributary of :  
 OS Grid Ref of Confluence: N 275 671  
 Date(s) Surveyed: 30/7/2008

**26/C/12**  
 OS Catchment No: 157

Station Nos.	Biological Quality Ratings (Q Values)						
	1989	1992	1996	1999	2002	2005	2008
0700	4	4	3-4	4	4	4	4*

**Assessment:** The lower reaches (0700) of the Comoge River were in a satisfactory ecological condition in 2008, however heavy siltation of the river bed was observed.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0700	Br u/s Glen Lough	225547	267432	41	LD

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0700	70	9	0	100	88	6	6	0	0	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CREELAGHTA**

**26/C/22**

Tributary of : 26B04 BLACK (SOUTH LEITRIM)

OS Catchment No: 155

OS Grid Ref of Confluence: N 175 898

Date(s) Surveyed: 22/7/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1989	1992	1996	1999	2002	2005	2008
0500	4-5	4	-	-	-	n/s	-
0800	-	-	4-5	4-5	4	4-5	4*
0900	4	4	-	-	-	n/s	-

**Assessment:** The Creelaghta Stream remains in a satisfactory ecological condition although the macroinvertebrate fauna indicated a decline from high to good ecological status in 2008. Some signs of enrichment were evident with enhanced weed production and very heavy siltation noted.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0500	Br N of Graigue	0	0	34	LD
0800	Br NW of Carrowdrumman	218301	289115	34	LD
0900	Br u/s Black R confl	0	0	34	LD

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0800	66	9	86	14	74	0	18	0	2	0	5

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CUILLEEN STREAM** 26/C/17  
 Tributary of : 26S07 SUCK OS Catchment No: 156  
 OS Grid Ref of Confluence: M 847 333  
 Date(s) Surveyed: 29/7/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1987	1992	1996	1999	2002	2006	2008
0400	4	4	4	4	4	4	3-4

**Assessment:** Quality had deteriorated in the Cuilleen Stream - a tributary of the River Suck.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0400	Br near Clarary Railway Br.	186238	232889	47	RN

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0400	44	10	0	100	62	5	9	0	8	0	17

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CURRAGHROE STREAM**  
 Tributary of : 26F03 FEORISH (TARMONBARRY)  
 OS Grid Ref of Confluence: N 023 773  
 Date(s) Surveyed: 7/8/2008

26/C/15

OS Catchment No: 155

Station Nos.	Biological Quality Ratings (Q Values)								
	1982	1986	1987	1992	1996	1999	2002	2006	2008
0100	-	4	4	-	3	2-3	3	-	-
0140	-	-	-	3	-	-	-	-	-
0180	-	-	-	-	-	-	3	3	3
0200	4	4	4	3	2-3	3	-	-	-

**Assessment:** Unsatisfactory. No change on 2006 with peat harvesting impacts still apparent.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge S. of Curraghroe	198506	274427	40	RN
0140	Br ESE of Curraghroe	199190	274795	40	RN
0180	Br NW Drinagh	200428	276496	40	RN
0200	Bridge N. of Drinagh	200831	276799	40	RN

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	43	3	27	73	62	0	3	0	0	0	35
0200	39	17	16	84	62	0	18	0	0	0	21

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DERRYHIPPOO**  
 Tributary of : 26S07 SUCK  
 OS Grid Ref of Confluence: M 793 637  
 Date(s) Surveyed: 15/8/2008

**26/D/01**  
 OS Catchment No: 156

Station Nos.	Biological Quality Ratings (Q Values)								
	1981	1984	1987	1992	1996	1999	2002	2006	2008
0050	-	-	3	-	-	-	-	-	-
0100	4	3	4	4	3	4	4	3-4	-
0200	4	4	4	4	4	4	3	n/s	3

**Assessment:** Poor status was noted at station 0200 in the lower reaches. Agricultural, forestry and peat harvesting are the main pressures in the catchment.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Bridge u/s Lough Ouver	173716	260960	40	GY
0100	Ballina Bridge	175530	261178	40	RN
0200	Bridge at Loughnasaggart	179329	262987	40	RN

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	59	16	0	100	86	4	3	0	5	0	2
0200	60	35	0	100	77	4	7	0	4	0	8

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DERRYMULLAN STREAM**

**26/D/07**

Tributary of : 26S07 SUCK

OS Catchment No: 156

OS Grid Ref of Confluence: M 845 318

Date(s) Surveyed: 19/9/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1987	1992	1996	1999	2002	2006	2008
0200	-	3	3-4	4	4	3-4*	-
0400	3	4	4	4	3-4	3-4*	4
0500	3	4-5	4	4	4	4	-
0700	-	4	4	4	4	-	4

**Assessment:** Satisfactory at both sites surveyed in 2008.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Bunowen Br	175330	229611	47	GY
0400	Kilmalaw Bridge	178454	231054	47	GY
0500	Killure Bridge	180498	232455	47	GY
0700	1st Bridge u/s Suck confl	184114	231759	47	GY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	79	5	0	100	63	2	8	0	0	0	26
0400	51	32	0	100	84	2	1	1	5	0	6
0500	44	56	0	100	82	1	6	1	6	0	5
0700	40	62	0	100	81	1	5	2	6	0	5

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

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River and Code : **DERRYNANANTA STREAM** **26/D/23**  
 Tributary of : 26O03 OWENMORE (GLANGEVLIN) OS Catchment No: 155a  
 OS Grid Ref of Confluence: H 083 256  
 Date(s) Surveyed: 10/7/2008

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*Formerly Derrynananta Branch of Owenmore (Glangevlin) 26O03*

<b>Station Nos.</b>	<b>1987</b>	<b>1992</b>	<b>1996</b>	<b>1999</b>	<b>Biological Quality Ratings (Q Values)</b>		
					<b>2002</b>	<b>2005</b>	<b>2008</b>
0140	5	4	4-5	4-5	4-5	4	3-4

**Assessment:** The paucity of sensitive mayflies and stoneflies indicated unsatisfactory ecological conditions in the remote Derrynananta Stream in 2008. Coniferous forestry is the likely cause.

<b>Station No.</b>	<b>Stations Location</b>	<b>National X</b>	<b>Grid Ref. Y</b>	<b>Discovery Series No.</b>	<b>County Code</b>
0140	Br u/s Bellavally Branch confl	208600	324900	26	CN



*Hydrometric Area 26 (2008)*

River and Code : **DIFFAGHER** **26/D/02**  
 Tributary of : 26O02 OWENGAR (LEITRIM) OS Catchment No: 155  
 OS Grid Ref of Confluence:  
 Date(s) Surveyed: 5/9/2008

Station Nos.	Biological Quality Ratings (Q Values)							
	1984	1987	1992	1996	1999	2002	2005	2008
0200	5	5	5	4-5	4-5	4-5	4-5	4

**Assessment:** Satisfactory albeit of lower status than formerly observed in the Diffagher.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Cloonemeone Bridge	193279	324800	26	LM

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	50	60	0	100	12	12	12	0	33	2	29

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DRUMSHANBO STREAM**

26/D/05

Tributary of : Lough Allen

OS Catchment No: 155

OS Grid Ref of Confluence: G 968 112

Date(s) Surveyed: 10/7/2008

Station Nos.	Biological Quality Ratings (Q Values)							
	1984	1986	1987	1988	1989	1990	1992	2008
0100	5	5	5	-	-	-	5	-
0280	3	3-4	3-4	-	-	-	-	-
0300	1	2-3	2	1-2	1	1	-	3*
0400	-	-	-	-	-	2	3	-

**Assessment:** The Drumshanbo Stream was in an unsatisfactory ecological condition when surveyed in July 2008. The macroinvertebrate fauna indicated significant ecological disruption. Recent bank works may have contributed to the heavy instream siltation observed.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Just E. of Dorrusawillin	0	0	26	
0280	Drumshanbo: Rockwell Tce Br	0	0	26	
0300	150 m d/s Sewage Trtmt Works	197318	311332	26	MH
0400	300 m d/s Sewage Trtmt Works	0	0	26	LM

River and Code : **DUNGOLMAN**  
 Tributary of : 26T02 TANG  
 OS Grid Ref of Confluence: N 172 530  
 Date(s) Surveyed: 18/8/2008, 21/8/2008

**26/D/06**  
 OS Catchment No: 157

Station Nos.	Biological Quality Ratings (Q Values)								
	1981	1984	1988	1992	1996	1999	2002	2005	2008
0100	-	-	4	3	3-4	-	-	-	-
0200	-	3-4	4	3-4	4	4	3-4*	4	3-4
0300	3-4	4	4	3-4	3-4	3-4	4	4	-
0400	-	-	-	-	-	4	4-5	3-4	3-4

**Assessment:** The Dungolman River was in an unsatisfactory ecological condition when surveyed in August 2008. The macroinvertebrate fauna indicated a decline in ecological quality at station 0200 accompanied by low dissolved oxygen concentrations. Ecological conditions remained unchanged at Calliaghstown Bridge (0400) with a paucity of sensitive macroinvertebrate species, enhanced macrophyte and heavy siltation noted.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Ballycloghduff Br	217750	242919	48	MH
0200	Br W of Umma House	218663	245472	48	MH
0300	Baskin Br	219238	249365	48	MH
0400	Br SE of Lecade	217728	251956	41	MH

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	70	18	19	81	76	0	23	0	1	0	0
0200	58	27	12	88	85	0	15	0	0	0	0
0300	51	71	5	95	88	0	6	0	5	0	1
0400	46	79	4	96	89	0	5	0	5	0	1

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **ESLIN**

**26/E/01**

Tributary of : 26S02 SHANNON (Upper)

OS Catchment No: 155

OS Grid Ref of Confluence: N 054 877

Date(s) Surveyed: 8/7/2008, 17/7/2008, 23/7/2008

Station Nos.	Biological Quality Ratings (Q Values)													
	1980	1982	1984	1986	1987	1989	1990	1992	1994	1996	1999	2002	2005	2008
0100	4-5	4	3-4	4	5	-	-	3-4	-	4-5	3-4	4	3-4	3-4
0150	-	-	-	-	-	-	-	4	-	4	4	-	-	-
0200	5	4-5	3-4	4	5	-	-	-	-	-	-	-	-	-
0300	5	3	4	4-5	5	-	-	3-4	-	4	3-4	4	4	3-4
0350	-	-	-	3-4	3-4	-	-	-	-	-	-	-	-	-
0400	4-5	4	3	4	5	-	-	3	-	4	3-4	4	3-4	3-4
0500	2	2	2	2	2	1-2	1	2	2-3	3	4	3-4	3-4	3
0600	2-3	3	3	2-3	2	2	1-2	2	2-3	3	4	3-4	-	-

**Assessment:** The Eslin River was in an unsatisfactory ecological condition when surveyed in July 2008. The macroinvertebrate fauna indicated a decline in ecological status at Lough Erril Bridge (0300) with enhanced weed and algal growth and excessive siltation also observed. Low dissolved oxygen readings were recorded at stations 0100, 0400 and 0500 on separate sampling dates. In particular a further decline from moderate to poor ecological status was observed at Clooncolry bridge (0500) where a clear lack of sensitive macroinvertebrate taxa, heavy siltation and low dissolved oxygen concentrations indicated significant ecological disruption. Recent bridge and pipe works may have contributed to the heavy siltation noted.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Drumgownagh Br	205199	302439	33	LM
0150	Br W of Stuck	205138	300398	33	LM
0200	Eslin Br (RHS)	0	0	33	LM
0300	Lough Erril Br	205540	296722	33	LM
0350	Br d/s Cloonboniagh L.	0	0	33	LM
0400	Corrascoffy Br	205396	293070	33	LM
0500	Br E of Dromod	205513	289803	33	LM
0600	Killinaker Br	205361	287994	33	LM

**Site Altitude and Upstream Catchment Characteristics (where available):**

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	55	23	0	100	30	0	14	0	49	4	3
0150	50	31	0	100	44	0	15	0	36	3	3
0300	46	44	0	100	60	0	10	0	25	3	2
0400	41	60	5	95	67	0	8	0	20	3	2
0500	39	66	4	96	67	0	9	0	20	2	2
0600	38	70	4	96	67	0	9	0	19	2	2

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **FALLAN**  
 Tributary of : 26C01 CAMLIN  
 OS Grid Ref of Confluence: N 079 765  
 Date(s) Surveyed: 24/7/2008

**26/F/01**  
 OS Catchment No: 155

Station Nos.	Biological Quality Ratings (Q Values)									
	1984	1987	1988	1989	1992	1996	1999	2002	2005	2008
0020	-	-	-	-	3-4	3-4	4	4	3-4	3-4*
0030	-	-	-	4-5	4	-	-	-	-	-
0040	-	-	-	-	-	3-4	3-4	4	3-4	3-4
0045	-	-	-	4-5	4	-	-	-	-	-
0075	-	4	-	-	-	-	-	-	-	-
0080	-	1	4	-	-	-	-	-	-	-
0100	4	3	-	-	-	-	-	-	-	-
0200	4	4	-	-	3-4	3-4	3-4	3-4	3-4	3-4
0300	4	4	-	-	3-4	-	-	-	-	-

**Assessment:** The Fallan River remained in an unsatisfactory ecological condition when surveyed in 2008. Agriculture is suspected as the most likely cause of the widespread overenrichment and heavy siltation observed at the three points surveyed on the Fallan.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0020	East Br NE of Abbeyderg	214501	265303	41	LD
0030	Br S of Cloonker	0	0	41	
0040	Br W of Curry	211005	270145	40	LD
0045	Br u/s West Branch confl	0	0	40	
0075	Br NE of Coolnahinch Br	0	0	40	LD
0080	Br E of Ballinamore Br	0	0	40	LD
0100	Br 1.5 km ENE of Killashee	0	0	40	LD
0200	Br S of Kilmore Upper	208474	273384	40	LD
0300	Fallan Br	0	0	40	LD

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0020	76	6	1	99	84	0	0	0	11	0	5
0040	50	21	0	100	80	2	8	0	5	0	5
0200	41	50	0	100	77	2	13	0	3	0	5

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **FARDRUMMAN STREAM**

**26/F/06**

Tributary of :

OS Catchment No:

OS Grid Ref of Confluence:

Date(s) Surveyed: 22/7/2008

Station Nos.	Biological Quality Ratings (Q Values)				
	1996	1999	2002	2005	2008
0400	4	4-5	4-5	4-5	3-4

**Assessment:** The Fardrumman Stream was in an unsatisfactory ecological status in 2008. The increase in pollution tolerant macroinvertebrate fauna, coupled with the abundant macrophyte growth indicated some enrichment upstream of the Black River confluence (0400).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0400	Br u/s Black R confl	217245	290044	34	LD

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0400	54	13	88	12	87	0	6	0	7	0	0

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **FEORISH (BALLYFARNON)**

**26/F/02**

Tributary of : 26S02 SHANNON (Upper)

OS Catchment No: 155

OS Grid Ref of Confluence: G 944 103

Date(s) Surveyed: 31/7/2008

Station Nos.	Biological Quality Ratings (Q Values)								
	1982	1986	1987	1992	1996	1999	2002	2005	2008
0050	-	-	4-5	4-5	4-5	4	4	4	4
0080	-	-	-	-	4-5	4-5	4-5	4-5	4-5
0250	-	-	4-5	5	4-5	4-5	4-5	4-5	4-5
0400	5	4	4	5	4-5	5	4-5	4-5	4-5

**Assessment:** The Feorish (Ballyfarnon) was generally in very good condition over its length achieving high ecological status at most stations sampled.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Mount Town Br	180250	319553	26	SO
0080	Br SW Geevagh	183489	316523	26	SO
0250	1.2 km d/s Ballyfarnon Bridge	186818	312960	26	RN
0400	Bridge 1.5 km S.W. of Keadue	189890	310714	26	RN

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	81	8	0	100	20	17	10	0	46	4	3
0080	63	32	0	100	37	10	19	0	26	1	7
0250	49	60	0	100	37	8	12	1	22	1	19
0400	48	89	2	98	39	8	12	0	23	3	16

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **FEORISH (TARMONBARRY)**

26/F/03

Tributary of : 26S02 SHANNON (Upper)

OS Catchment No: 155

OS Grid Ref of Confluence: N 042 767

Date(s) Surveyed: 7/8/2008

Station Nos.	Biological Quality Ratings (Q Values)								
	1982	1986	1987	1992	1996	1999	2002	2006	2008
0100	4	4	2-3	1-2	2-3	2	-	-	-
0140	-	-	-	-	-	-	2-3	2-3	3
0160	-	-	3	4	-	-	-	-	-
0200	4	4	3	3	3	3	4	3	3
0300	4	4	4	3-4	-	-	-	-	-
0400	-	-	-	-	3	3	3	n/s	3

**Assessment:** Generally unsatisfactory over its length - poor ecological status.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge N.E. of Ballymoylin	201135	283669	33	
0140	Br W Dooslattagh	201597	282328	33	
0160	Bridge E. of Caul	0	0	0	
0200	Bridge S.E. of Northyard	201406	279802	40	RN
0300	Cloonmore Bridge	201912	278125	40	RN
0400	Br d/s Cloonmore Br	203455	277413	40	RN

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	51	5	100	0	82	0	0	0	0	7	11
0200	39	25	45	55	76	0	14	0	0	1	7
0300	39	44	30	70	71	0	19	0	0	1	9
0400	39	79	20	80	60	0	29	0	0	0	10

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.



**Hydrometric Area 26 (2008)**

River and Code : **FRANCIS**  
 Tributary of : 26S07 SUCK  
 OS Grid Ref of Confluence: M 674 798  
 Date(s) Surveyed: 30/7/2008

**26/F/05**  
 OS Catchment No: 156

Station Nos.	Biological Quality Ratings (Q Values)								
	1981	1984	1987	1992	1996	1999	2002	2005	2008
0010	-	-	-	3-4	3	3	4	3	-
0050	-	-	5	4-5	4-5	4-5	4-5	4	4-5
0300	4	3-4	4	4	3	4	4	3-4	4

**Assessment:** A significant improvement was seen in the Francis River in July 2008 compared with the 2005 survey.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0010	Br SE Druminagh	166122	286033	32	RN
0050	Cloonard Bridge	166798	283964	32	RN
0300	Bridge u/s Suck River confl	167691	279924	39	RN

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0010	87	13	0	100	43	0	23	0	7	0	27
0050	81	24	0	100	28	0	30	0	10	0	32
0300	66	86	0	100	48	1	27	0	6	0	18

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **GAINE**

**26/G/01**

Tributary of :

OS Catchment No: 157

OS Grid Ref of Confluence: N 400 660

Date(s) Surveyed: 5/8/2008

Station Nos.	Biological Quality Ratings (Q Values)							
	1984	1988	1992	1996	1999	2002	2005	2008
0100	3-4	3	3-4	3-4	3	3	3-4	3-4
0200	3-4	4	3-4	3-4	3*	3	3	3
0300	-	-	-	3-4	3-4	3	3-4	n/s

**Assessment:** The Gaine River was in an unsatisfactory ecological condition in 2008. Groundwater appears to have a major adverse effect on fauna of the Gaine River as sensitive species were not observed at either of the two locations surveyed. The dominance of pollution tolerant macroinvertebrate taxa coupled with the abundant macrophyte and algal growth and heavy siltation indicated significant eutrophication in the lower reaches at Multyfarnham (0200).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br 1 km NE of Ballynagall	244578	259286	41	MH
0200	Br in Multyfarnham	240471	264073	41	MH
0300	0.8 km u/s L Derravarragh	239965	265601	41	MH

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	70	18	0	100	79	10	2	0	7	2	0
0200	62	35	0	100	72	6	1	0	15	1	4
0300	61	42	0	100	74	6	1	1	13	1	5

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **GLORE (WESTMEATH)**

**26/G/02**

Tributary of : 26I01 INNY

OS Catchment No: 157

OS Grid Ref of Confluence: N 483 722

Date(s) Surveyed: 6/8/2008, 31/7/2008

Station Nos.	Biological Quality Ratings (Q Values)									
	1977	1981	1984	1987	1992	1996	1999	2002	2005	2008
0100	-	5	3-4	4	3-4	4	3-4	3-4	3	3
0200	4	4-5	4-5	4	4	4-5	4-5	4-5	4	3-4

**Assessment:** The Glore (Westmeath) River was in an unsatisfactory ecological condition when surveyed in 2008. The lack of sensitive macroinvertebrate fauna, abundant weed and algal growth coupled with excessive siltation indicated significant ecological disruption in the upper reaches at Stonestown Bridge (0100). An unwelcome decline in ecological quality was also noted at Rockbrook (0200). Signs of increasing eutrophication were evident with significant calcification and compaction of the substrate, enhanced weed growth, depressed oxygen concentrations and a general decline in the occurrence of sensitive macroinvertebrate taxa since the previous survey in 2005.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Stonestown Br	247404	272797	41	MH
0200	Br at Rockbrook	244407	274188	41	MH

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	78	20	0	100	84	2	0	0	5	1	8
0200	69	37	0	100	91	1	0	0	3	1	4

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

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River and Code : **GOWLAUNREVAGH** **26/G/12**  
 Tributary of : 26O02 OWENGAR (LEITRIM) OS Catchment No:  
 OS Grid Ref of Confluence: G 894 232  
 Date(s) Surveyed: 5/9/2008

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*Initially called Owengar 0050 .*

Biological Quality Ratings (Q Values)

<b>Station Nos.</b>	<b>2008</b>	
0050	1*	

**Assessment:** This tributary of the Owengar River (q.v.) appeared to take the main brunt of the landslides that occurred in the upper catchment of the Owengar and Arigna (q.v.) in mid August 2008. The river bed was completely scoured out leaving very little in terms of remaining fauna or flora.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Br S Glassalt	188441	322558	26	LM

River and Code : **HIND**

**26/H/01**

Tributary of :

OS Catchment No: 155

OS Grid Ref of Confluence: M 967 606

Date(s) Surveyed: 8/9/2008, 17/9/2008

Station Nos.	Biological Quality Ratings (Q Values)														
	1971	1974	1980	1983	1986	1987	1989	1990	1992	1996	1999	2000	2002	2005	2008
0300	4	3-4	3	3	2-3	2-3	2	2-3	2-3	2	2	-	2-3	3/0	3
0400	4	3-4	3-4	4	3-4	3	-	-	3	2-3	2	2	2-3	3	3
0500	4-5	3-4	4	4	3-4	3-4	-	-	3	3	2-3	2-3	3	3	3-4

**Assessment:** The improvement noted in 2005 was maintained and a further improvement was seen especially in the lower stretch upstream of Lough Ree. The pollution is primarily attributed to urban impacts from the town of Roscommon.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Br W of Ballymartin Beg	188040	261794	40	RN
0400	Br N Ballymurray	191635	261560	40	RN
0500	Clooncah Br	195745	261579	40	RN

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	42	45	0	100	85	0	1	7	6	0	1
0400	38	63	0	100	82	4	2	5	4	0	3
0500	38	78	0	100	79	3	6	4	4	0	3

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **INNY**

26/I/01

Tributary of :

OS Catchment No: 157

OS Grid Ref of Confluence: N 115 554

Date(s) Surveyed: 5/8/2008, 6/8/2008, 7/8/2008, 30/7/2008

Station Nos.	Biological Quality Ratings (Q Values)											
	1971	1973	1977	1981	1984	1987	1992	1996	1999	2002	2005	2008
0060	-	-	-	-	-	4	3	3	3	3	3	-
0100	-	-	-	3-4	3-4	4	4	3-4	3-4	-	-	3-4
0200	4	4	4	4	4	3-4	3-4	3-4	3	3	3	3-4*
0300	-	-	-	4	4-5	4	3-4	4	3	3	3-4	3-4
0400	-	-	-	4	4	4	-	-	-	-	-	-
0500	3-4	3-4	4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4
0550	-	-	-	-	4	4	-	-	-	-	-	-
0600	-	-	4-5	4-5	4-5	4	3-4	3-4	-	3-4*	3-4	-
0650	4	4	-	5	4-5	4-5	-	-	-	-	-	-
0700	-	-	-	-	-	-	3	3-4	3-4	4	3-4	3
0750	-	-	-	-	-	-	3-4	3-4	3-4	4	3-4	-
0800	4	4-5	4	4	4-5	4	3-4	4	4	3-4	4	4
0900	-	5	4	4	5	4	4	4-5	4	4	3-4	-
1000	5	4	4-5	5	4-5	5	3-4	4	4	3-4	4	4
1080	-	-	-	-	-	5	4	-	-	-	-	-
1120	-	-	-	-	4-5	5	-	-	-	-	-	-
1150	-	-	-	-	-	5	3-4	4	3-4	3-4	3-4	3-4
1200	4	4-5	4-5	4-5	4-5	5	3-4	4	4	4	4	-
1300	-	-	-	4	4-5	4-5	4	-	-	-	-	-
1320	-	-	-	-	4-5	4-5	-	3-4	-	-	-	-
1350	4-5	4-5	4-5	4-5	4-5	4-5	4-5	3-4	4	4	4	-
1400	-	-	-	4-5	4-5	5	4	3-4	4	4	4	-

**Assessment:** The Inny River was in a mostly unsatisfactory ecological condition due to widespread eutrophication in 2008. Only two (0800 & 1000) of the eight stations surveyed had satisfactory ecological ratings. The macroinvertebrate fauna indicated a slight improvement in ecological quality at station 0200, however excessive siltation remains an issue upstream of Lough Sheelin at stations 0100, 0200 and 0300. An unwelcome further decline in ecological quality was evident at station 0700, where the dominance of pollution tolerant macroinvertebrate fauna and low dissolved oxygen concentrations were noted. The macroinvertebrate fauna indicated satisfactory ecological conditions downstream of Lough Derravarragh at Ballinalack Bridge (0800) and at Ballynacarrow Bridge (1000). The enhanced weed and algal production and excessive siltation observed however at both stations indicated some degree of enrichment along this stretch of river.

*Hydrometric Area 26 (2008)*

<b>Station No.</b>	<b>Stations Location</b>	<b>National X</b>	<b>Grid Ref. Y</b>	<b>Discovery Series No.</b>	<b>County Code</b>
0060	Br NW of Ballinvally	257704	279699	42	MH
0100	Tubride Br	255313	278913	42	MH
0200	Castlecor: 1st Br d/s St 0100	253085	280590	35	MH
0300	Ballinrink Br	249453	280948	34	MH
0400	Ross Br	247288	283030	34	MH
0500	Finnea Br	240186	281418	34	MH
0550	2 km d/s Lough Kinale	0	0	34	MH
0600	Camagh Br	239178	275596	41	MH
0650	Float Br	0	0	41	MH
0700	Br nr Shrubbywood	238727	270002	41	MH
0750	Inny Br d/s L Derravaragh	238967	266647	41	MH
0800	Ballinalack Br	234778	264602	41	MH
0900	Ballycorkey Br	231186	263939	41	MH
1000	Ballynacarrow Br	225822	260253	41	MH
1080	300 m u/s Abbeyshrle Br	0	0	41	LD
1120	500 m d/s Abbeyshrle Br	0	0	41	LD
1150	Clynan or New Br	221488	258628	41	LD
1200	Newcastle Br	218321	256960	41	LD
1300	Ballymahon Br	0	0	41	LD
1320	500 m d/s Ballymahon Br	215218	256464	41	LD
1350	Shrle Br	213497	255897	41	LD
1400	Red Br	211880	255083	40	MH

*Site Altitude and Upstream Catchment Characteristics (where available):*

<b>Site No.</b>	<b>Alt</b>	<b>Area</b>	<b>Sil</b>	<b>Cal</b>	<b>Pasture</b>	<b>Forestry</b>	<b>Bogs</b>	<b>Urban</b>	<b>Misc Ag.</b>	<b>Water</b>	<b>Other</b>
0200	84	46	16	84	93	3	1	2	2	0	0
0300	68	56	13	87	94	2	0	2	2	0	0
0500	69	257	43	57	82	3	2	1	4	7	1
0600	67	377	31	69	79	4	4	1	4	6	3
0700	66	438	27	73	77	3	7	1	4	5	3
0750	60	599	20	80	77	3	5	1	5	5	3
0800	60	673	17	83	75	3	8	1	5	5	4
0900	58	775	15	85	76	3	8	1	4	4	4
1000	55	866	13	87	76	3	8	1	4	4	4
1150	51	959	12	88	77	3	8	1	4	3	3
1200	48	1050	11	89	78	3	8	1	4	3	4
1320	40	1078	11	89	78	3	8	1	4	3	4
1350	40	1087	11	89	78	3	8	1	4	3	4
1400	40	1226	10	90	80	2	7	1	4	3	3

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

**Hydrometric Area 26 (2008)**

River and Code : **ISLAND**  
 Tributary of : 26S07 SUCK  
 OS Grid Ref of Confluence: M 697 723  
 Date(s) Surveyed: 5/8/2008

**26/I/03**  
 OS Catchment No: 156

Station Nos.	Biological Quality Ratings (Q Values)								
	1981	1984	1987	1992	1996	1999	2002	2005	2008
0040	-	-	-	-	4	4	4	4	4
0100	4	4	4-5	4-5	4	4	4	4	4
0300	4-5	4-5	4-5	4-5	4-5	4-5	4-5	-	4-5
0400	4-5	4	4-5	4	4-5	4	3-4	4	4-5

**Assessment:** All sites surveyed on the Island in early August 2008 were in satisfactory condition.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0040	Br SW of Cloonlee	157520	277348	39	GY
0100	Island Bridge	159644	273025	39	GY
0300	Br SW Bookalagh	166216	272970	39	GY
0400	Castlerea Bridge - Ballymoe	169477	271718	39	GY

**Site Altitude and Upstream Catchment Characteristics (where available):**

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0040	89	1	0	100	99	0	0	0	1	0	0
0100	77	39	1	99	68	2	12	1	5	0	12
0300	63	132	0	100	56	1	26	0	7	0	9
0400	60	138	0	100	57	1	26	0	7	0	8

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.



***Hydrometric Area 26 (2008)***

River and Code : **JIGGY (HIND)**  
 Tributary of : 26H01 HIND  
 OS Grid Ref of Confluence: M 879 619  
 Date(s) Surveyed: 8/9/2008

**26/J/01**  
 OS Catchment No: 155

*Previously reported as North Branch on Hind 26H01*

Station Nos.	Biological Quality Ratings (Q Values)									
	1987	1989	1990	1992	1996	1999	2002	2005	2007	2008
0090	1-2	2	2	1-2	1-2	1-2	2	1-2	2	2

**Assessment:** Serious pollution continued in the Jiggy (Hind) in Roscommon Town in 2008.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0090	Br WSW Ardsallagh Beg	187566	263388	40	RN

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0090	45	14	0	100	84	0	0	16	0	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **KILLADISKERT STREAM** 26/K/16  
 Tributary of : 26D02 DIFFAGHER OS Catchment No: 155  
 OS Grid Ref of Confluence: G 931 251  
 Date(s) Surveyed: 5/9/2008

*Formerly known as Killadiskert Branch of Diffagher - 26D020600*

Station Nos.	Biological Quality Ratings (Q Values)					
	1989	1996	1999	2002	2005	2008
0600	4-5	4	4	4	4-5	4

**Assessment:** This Diffagher (q.v.) tributary was of good status in September 2008.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0600	0.2km u/s Br W Killadiskert	193296	325251	26	LM

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0600	55	4	0	100	30	2	0	0	0	0	68

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

*Hydrometric Area 26 (2008)*

River and Code : **KILLEGLAN**  
 Tributary of : 26S07 SUCK  
 OS Grid Ref of Confluence: M 858 396  
 Date(s) Surveyed: 29/7/2008

**26/K/04**  
 OS Catchment No: 156

Station Nos.	Biological Quality Ratings (Q Values)						
	1987	1992	1996	1999	2002	2006	2008
0200	4	4	4	4	4	4	4
0400	-	3	-	-	-	-	-

**Assessment:** Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Bridge u/s Suck River confl	185190	239446	47	RN
0400	Br NW of Camlagh House	185800	239600	0	RN

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	44	49	0	100	78	0	19	0	1	0	2

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **KILLIAN**  
 Tributary of : 26S03 SHIVEN (SOUTH)  
 OS Grid Ref of Confluence: M 742 490  
 Date(s) Surveyed: 17/9/2008

**26/K/01**  
 OS Catchment No: 156

Station Nos.	Biological Quality Ratings (Q Values)								
	1981	1984	1987	1992	1996	1999	2002	2005	2008
0050	-	-	-	-	4	4	4	4	4
0100	4	4	4	4-5	4	4	4-5	4-5	-
0200	4	3-4	4	3-4	3-4	4	4	4	-
0300	4-5	3-4	4	4	4	4	4	4	4

**Assessment:** Remaining satisfactory - good status at both sites surveyed.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Br W of Corracullin	168895	257935	39	GY
0100	Kingstown Bridge	170049	253632	39	GY
0200	New Bridge	171501	250917	39	GY
0300	Bridge u/s Shiven (S.) River	174129	249049	47	GY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	75	23	0	100	48	0	40	0	1	0	12
0100	65	48	0	100	46	1	34	0	4	0	15
0200	58	62	0	100	45	2	29	0	9	0	15
0300	48	65	0	100	46	2	28	0	9	0	15

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **KILLUKIN** **26/K/02**  
 Tributary of : 26S02 SHANNON (Upper) OS Catchment No: 155  
 OS Grid Ref of Confluence: M 940 987  
 Date(s) Surveyed: 24/9/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1987	1992	1996	1999	2002	2005	2008
0100	3-4	3-4	3	3	3	3-4	3
0300	3-4	3	-	-	3	3	-
0500	4-5	4	4	4	-	-	-
0700	4	4	4	4	4-5	4-5	4

**Assessment:** The upper station (0100) was in poor ecological status, showing deterioration in comparison with 2005. The lower station (0700) had dropped from high status to good status.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge d/s Lisdaly Lough	188706	295184	33	RN
0300	Bridge N. of Carrowreagh	190861	295531	0	
0500	Br SW Deerpark	191878	295981	33	RN
0700	Bridge E. of Killukin	192946	297753	33	RN

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	78	13	0	100	77	2	5	0	2	0	13
0500	63	28	0	100	75	1	2	0	12	1	8
0700	47	31	0	100	74	1	3	0	13	1	8

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **KILMACRICARD**

**26/K/17**

Tributary of : 26S05 SPRINGFIELD

OS Catchment No: 156

OS Grid Ref of Confluence: M 667 659

Date(s) Surveyed: 5/8/2008

*Previously reported as East Branch on Springfield 26S05*

Station Nos.	Biological Quality Ratings (Q Values)								
	1981	1984	1987	1992	1996	1999	2002	2006	2008
0025	4	3-4	4	3	-	-	-	-	-
0030	-	-	-	-	3-4	4	4-5	3-4	4

**Assessment:** Satisfactory - improved in comparison with the 2005 survey.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0025	Br 2 km N. of Keeloges Cross	169400	265000	0	GY
0030	Br ENE of Kilmacricard	168493	265594	0	GY

River and Code : **KILMACTRANNY**

**26/K/03**

Tributary of :

OS Catchment No: 155

OS Grid Ref of Confluence: G 852 123

Date(s) Surveyed: 31/7/2008

Station Nos.	Biological Quality Ratings (Q Values)				
	1987	1992	1996	2002	2008
0800	4	4	4	4	4

**Assessment:** Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0800	First Bridge u/s Lough Skean	184514	312240	26	RN

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0800	50	6	0	100	71	0	0	0	21	0	8

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **KILTACLARE STREAM**

**26/K/06**

Tributary of : 26L03 LUNG

OS Catchment No: 155

OS Grid Ref of Confluence: M 578 923

Date(s) Surveyed: 30/7/2008

Station Nos.	Biological Quality Ratings (Q Values)					
	1992	1996	1999	2002	2005	2008
0700	4	4-5	4-5	4	4	4

**Assessment:** Remaining satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0700	Br u/s Lung R. confl.	157550	292077	32	MO

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0700	78	17	36	64	39	0	23	0	5	0	33

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.



*Hydrometric Area 26 (2008)*

River and Code : **KINARD**  
 Tributary of : 26O06 OWENUR  
 OS Grid Ref of Confluence: M 960 895  
 Date(s) Surveyed: 14/8/2008

**26/K/07**  
 OS Catchment No: 155

Station Nos.	Biological Quality Ratings (Q Values)						
	1989	1992	1996	1999	2002	2005	2008
0500	4	4	3-4	3	3-4	3-4	4

**Assessment:** Good status - a significant improvement compared with previous surveys going back to 1992.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0500	Carrowkeel Bridge	189387	289441	33	RN

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0500	48	19	0	100	87	0	2	0	5	0	6

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **LENAMORE STREAM**

**26/L/06**

Tributary of : 26I01 INNY

OS Catchment No: 157

OS Grid Ref of Confluence: N 260 621

Date(s) Surveyed: 24/7/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1988	1992	1996	1999	2002	2005	2008
0100	-	-	-	4	-	-	-
0200	5	4	4	4	4	4	-
0400	3-4	3	4	4	3-4	3-4	4*

**Assessment:** The macroinvertebrate fauna indicated satisfactory ecological conditions at Legan Bridge (0400) in 2008. Some signs of enrichment were evident however with enhanced algal growth and excessive siltation observed.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Carn Br (E of Askasillagh)	220149	265910	41	LD
0200	Br nr Ballyglassin	221891	265795	41	LD
0400	Br at Lenamore	224320	263413	41	LD

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	88	6	4	96	71	5	0	0	14	0	10
0200	77	14	2	98	87	2	0	1	6	0	4
0400	68	19	1	99	91	2	0	0	4	0	3

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **LISDALY STREAM**

**26/L/02**

Tributary of : Lisdaly Lough & 26K02

OS Catchment No: 155

OS Grid Ref of Confluence: M 879 952

Date(s) Surveyed: 24/9/2008

Station Nos.	Biological Quality Ratings (Q Values)								
	1980	1984	1987	1992	1996	1999	2002	2005	2008
0080	-	-	-	-	2-3	-	-	-	-
0100	-	-	3	3	-	3	-	-	-
0200	3	3	3	3	4	4	3-4	4	3-4

**Assessment:** Moderate status - deterioration since 2005.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0080	Br N of Ardmore	185172	297268	33	RN
0100	Bridge N.E. of Croghan House	186330	296778	33	RN
0200	Bridge u/s Lisdaly Lough	186968	295180	33	RN

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0080	94	2	0	100	68	2	0	0	0	0	30
0100	98	0	0	100	52	48	0	0	0	0	0
0200	80	5	0	100	77	3	5	0	5	0	10

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **LISSAPHOBBLE**

**26/L/04**

Tributary of : 26S01 SCRAMOGE

OS Catchment No: 155

OS Grid Ref of Confluence: M 948 792

Date(s) Surveyed: 15/8/2008

Station Nos.	Biological Quality Ratings (Q Values)								
	1984	1986	1987	1992	1996	1999	2002	2005	2008
0100	-	-	4	3-4	3	3	3	3	-
0300	4	4	4	-	-	-	-	-	-
0350	-	-	-	4-5	-	-	-	-	-
0500	-	-	-	4	3	4	4	4	4

**Assessment:** The Lissaphobble was in good status where sampled.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge d/s Loughannatryna	188262	273988	40	RN
0300	West Bridge at Ballinfad	0	0	0	
0350	Bridge N of Bally	0	0	0	
0500	Br NE of Lissonuffy	194334	277315	40	RN

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	57	6	0	100	96	0	0	0	4	0	0
0500	47	48	19	81	70	0	15	1	3	0	10

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **LISSYDALY STREAM**

**26/L/10**

Tributary of : 26A03 ANADERRYBOY

OS Catchment No: 155

OS Grid Ref of Confluence: M 596 874

Date(s) Surveyed: 30/7/2008

Station Nos.	1989	1994	1996	1999	Biological Quality Ratings (Q Values)		
					2002	2005	2008
0100	5	-	-	-	-	-	-
0500	5	4-5	4	4-5	4-5	4	-
0800	4-5	-	4	4	4-5	4-5	-
0900	4-5	4	4	4	4-5	4	4

**Assessment:** Satisfactory where surveyed in July 2008.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br d/s Uggoot Branch confl	0	0	0	GY
0500	Bridge N. of Sanvolaun	149827	293860	32	MO
0800	Bridge near Aghadiffin	153692	291986	32	MO
0900	Lissydal Bridge	157446	289863	32	RN

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0500	105	5	70	30	22	4	52	10	6	0	5
0800	84	25	60	40	32	1	54	2	2	0	9
0900	79	32	46	54	33	1	54	2	3	0	8

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **LUNG**  
 Tributary of : Lough Gara  
 OS Grid Ref of Confluence: M 677 965  
 Date(s) Surveyed: 1/8/2008

**26/L/03**  
 OS Catchment No: 155

Station Nos.	Biological Quality Ratings (Q Values)														
	1971	1974	1978	1980	1982	1984	1987	1992	1994	1996	1999	2000	2002	2005	2008
0100	-	-	4-5	5	5	5	4-5	4-5	-	4	4	-	4-5	4-5	-
0200	5	5	4-5	4	5	5	4	4-5	-	4	4-5	-	4-5	4	-
0250	-	-	-	-	-	-	4	4	-	3-4	4	-	-	-	-
0350	5	4-5	4	4-5	4	4	3	4	4	4	4-5	-	-	4	4
0400	5	4-5	3	3	4	4	3	3-4	2	2-3	3	4	4	3	4

**Assessment:** The Lung was in satisfactory condition upstream (0350) and downstream (0400) of Ballaghderreen town. The upper tributaries, the Anaderryboy River (q.v.) and Kiltclare (q.v.) were also satisfactory in 2008.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Figh Bridge	159907	289516	32	RN
0200	Crunaun Bridge	159907	289516	32	RN
0250	2 km S. of Ballaghaderreen	162733	293013	32	RN
0350	Bridge W. of Banada	163353	294384	32	RN
0400	Bridge u/s Lough Gara	166177	296557	32	RN

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc	Ag.	Water	Other
0100	76	96	16	84	36	2	48	1	4	3	6	
0200	76	96	16	84	36	2	48	1	4	3	6	
0250	72	182	14	86	42	1	36	1	7	2	10	
0350	70	196	13	87	44	1	36	0	8	2	9	
0400	70	0	0	100	33	0	67	0	0	0	0	

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **MANTUA STREAM**

**26/M/13**

Tributary of : 26O06 OWENUR

OS Catchment No: 155

OS Grid Ref of Confluence: M 757 858

Date(s) Surveyed: 13/8/2008

*Previously reported as Mantua Branch of the Owenur 26O06*

Station Nos.	Biological Quality Ratings (Q Values)						
	1987	1992	1996	1999	2002	2005	2008
0060	4	-	-	-	2-3	-	-
0080	4	3	2-3	3-4	4	4	4

**Assessment:** Continuing satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0060	Br W Creeve	183410	287130	0	RN
0080	Bridge SE of Gortnacranagh	185191	286100	33	RN

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0080	51	10	0	100	81	0	0	0	15	0	3

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **MOUNTAIN (ROSCOMMON)**

**26/M/03**

Tributary of :

OS Catchment No: 155

OS Grid Ref of Confluence: M 973 857

Date(s) Surveyed: 13/8/2008

Station Nos.	Biological Quality Ratings (Q Values)							
	1981	1984	1987	1992	1996	1999	2005	2008
0100	4	4	4	4	3-4	3-4	4	3-4

**Assessment:** The Mountain appeared slightly polluted in August 2008. The Mountain is a tributary of Kilglass Lough.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	1 km u/s Kilglass Lough	196990	285298	33	DL

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	39	217	5	95	79	1	4	0	6	1	9

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.



River and Code : **MOUNTNUGENT**

**26/M/02**

Tributary of :

OS Catchment No: 157

OS Grid Ref of Confluence: N 474 853

Date(s) Surveyed: 28/10/2008, 29/10/2008, 31/7/2008

Station Nos.	Biological Quality Ratings (Q Values)											
	1973	1977	1981	1984	1987	1988	1992	1996	1999	2002	2005	2008
0040	-	-	-	-	-	-	4	4-5	3-4	4	4	-
0100	-	-	3	2-3	3-4	-	-	-	-	-	-	-
0120	-	-	-	-	-	-	-	3	1/0	-	-	2-3
0200	4	3-4	4	4-5	1	4	4	3-4	3	4-5	4	3-4*
0250	-	-	-	-	4	-	-	-	-	-	-	-
0300	-	-	3-4	4	3	-	-	-	-	-	-	3-4
0350	-	-	-	-	3	-	3-4	3-4	3-4	3-4	3-4	-
0400	-	-	3-4	4	3	-	-	-	-	-	-	-
0500	4	4	3-4	4	4	-	3-4	3-4	3-4	4	3-4	3-4

**Assessment:** The MountNugent River was in an unsatisfactory ecological condition when surveyed in 2008. In particular the dominance of pollution tolerant macroinvertebrate fauna indicated poor ecological status along the Ballyjamesduff branch (0120). There was an unwelcome decline from good to moderate ecological status downstream at Derrylea bridge (0200) where heavy siltation was also noted. Ecological quality was also unsatisfactory along the Kildorrigh branch (0300) and also in the lower reaches (0500). Enhanced weed growth, excessive siltation and low dissolved oxygen concentrations at some of the stations surveyed indicated varying degrees of eutrophication occurring along the MountNugent River.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0040	Br to N of Rockville	251545	291142	34	CN
0100	Upper Br in Ballyjamesduff	0	0	35	CN
0120	Br to SE of Rockville*	251600	291160	34	CN
0200	Br nr Derrylea	250605	289894	34	CN
0250	Br at Rasuddan	0	0	35	CN
0300	Br at Kildorrigh	251774	288711	34	CN
0350	Br E of Kilnacrott Ho	251092	287548	34	CN
0400	Br SW of Kilnacrott Ho	0	0	34	CN
0500	Mountnugent Br	248916	285680	34	CN

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0040	90	17	100	0	90	0	0	3	3	3	1
0120	90	17	100	0	90	0	0	3	3	3	1
0200	77	41	100	0	95	0	0	1	2	1	0
0350	70	59	100	0	93	0	0	1	4	1	0
0500	70	91	84	16	91	0	1	1	5	1	2

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **MULLENMEEHAN STREAM** **26/M/12**  
 Tributary of : 26D06 DUNGOLMAN OS Catchment No: 157  
 OS Grid Ref of Confluence: N 193 468  
 Date(s) Surveyed: 29/10/2008

*Formerly East Branch Of Dungolman River 26D06*

Station Nos.	Biological Quality Ratings (Q Values)						
	1989	1994	1996	1999	2002	2005	2008
0060	-	4	4	4	3-4	n/s	-
0080	4-5	3-4	4	4	4	4	3-4*

**Assessment:** The lack of sensitive macroinvertebrate fauna indicated unsatisfactory ecological conditions in the Mullenmeehan Stream (0080) in 2008. Calcification and heavy siltation of the substratum was observed.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0060	Br u/s Rackavarra Branch	223000	245900	48	MH
0080	Br nr Mullenineehan	221400	246600	48	MH

River and Code : **OWENGAR (LEITRIM)**

26/O/02

Tributary of : 26D02 DIFFAGHER

OS Catchment No: 155

OS Grid Ref of Confluence: G 930 243

Date(s) Surveyed: 5/9/2008

Station Nos.	Biological Quality Ratings (Q Values)							
	1984	1987	1992	1996	1999	2002	2005	2008
0075	-	-	-	-	-	4-5	4-5	-
0100	5	4-5	4-5	4	4-5	4-5	n/s	-
0200	4	4	5	4-5	3-4*	-	4	4*

**Assessment:** The lower Owengar was very turbid when surveyed in early September 2008 but retained most of its fauna. Tributaries of the upper Owengar in particular the Gowlaunrevagh (q.v.) were effectively wiped out by sever scouring due to a major flood and a landslide/bog burst that occurred in mid August on the watershed between the Owengar and Arigna (q.v.) catchments.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0075	Br E Camalt	189198	323309	26	
0100	Bridge at Barragh	191437	323471	26	LM
0200	Bridge at Annaghgerry	192420	323894	26	LM

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	59	14	0	100	1	15	45	0	17	0	22
0200	51	18	0	100	0	15	37	1	27	0	19

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **OWENMORE (GLANGEVLIN)**

**26/O/03**

Tributary of : 26S02 SHANNON (Upper)

OS Catchment No: 155

OS Grid Ref of Confluence: H 033 292

Date(s) Surveyed: 9/7/2008, 21/7/2008

Station Nos.	Biological Quality Ratings (Q Values)									
	1977	1981	1984	1987	1992	1996	1999	2002	2005	2008
0100	-	-	-	5	4-5	4-5	5	4-5	4-5	3-4
0160	-	-	-	4	-	4	-	-	-	-
0200	5	5	5	5	-	-	4-5	-	-	-
0300	5	5	5	5	4-5	5	4-5	4-5	3-4	3-4*

**Assessment:** The Owenmore (Glangevlin) River was in an unsatisfactory ecological condition in 2008. The lack of sensitive macroinvertebrate fauna indicated an unwelcome decline from high to moderate status upstream of Cartys Bridge (0100). The storage of silage bales in close proximity to the river could pose a threat to quality in the future. Although the macroinvertebrate diversity improved in the lower reaches (0300), the fauna continued to indicate some ecological disruption. Excessive siltation and enhanced weed and algal growth were also notable at this station. Forestry and agriculture suspected sources of pollution.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Carty's Br	208465	326985	26	CN
0160	Br NE of Moneensauran	208280	324797	26	CN
0200	Br W of Glangevlin	206249	326904	26	CN
0300	Br W of Legnagrow Lough	205424	328518	26	CN

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	151	7	0	100	0	0	81	0	19	0	0
0160	159	8	0	100	0	12	88	0	0	0	0
0200	104	38	0	100	0	8	79	0	12	0	1
0300	87	47	0	100	0	9	78	0	12	0	1

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **OWENNAFOREESHA**

**26/O/04**

Tributary of : 26B09 BREEDOGE

OS Catchment No: 155

OS Grid Ref of Confluence: M 762 909

Date(s) Surveyed: 2/10/2008

Station Nos.	Biological Quality Ratings (Q Values)								
	1981	1984	1987	1992	1996	1999	2002	2005	2008
0100	4	4	3-4	4	4	3-4	3-4	3-4	3-4
0200	-	-	-	4-5	4	4	4-5	4	4

**Assessment:** No change in comparison with 2005 with the upper station (0100) in Bellanagare slightly polluted and improving in the lower section just upstream of its confluence with the Carricknabraher (q.v.) to form the Breedoge (q.v.) River.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bellanagare Bridge	175048	287539	33	RN
0200	100 m u/s Breedoge confl	176214	290220	33	RN

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	74	18	0	100	65	0	16	0	4	0	15
0200	69	0	0	100	0	0	17	0	0	0	83

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **OWENNAYLE**

**26/O/05**

Tributary of : 26S02 SHANNON (Upper)

OS Catchment No: 155

OS Grid Ref of Confluence: G 975 261

Date(s) Surveyed: 9/7/2008, 21/7/2008

Station Nos.	Biological Quality Ratings (Q Values)									
	1976	1981	1984	1987	1992	1996	1999	2002	2005	2008
0050	-	-	-	5	4	4	4	4	3-4	3-4
0100	4-5	4-5	5	5	4	4-5	4-5	4	4	4

**Assessment:** A slight improvement in macroinvertebrate faunal diversity was observed in the upper reaches (0050) however the continued lack of sensitive taxa indicated unsatisfactory ecological conditions in 2008. Biological indicators point to occasional acidic episodes due to suspected forestry activities in the upper Owennayle (0050) river. Some sensitive species remain absent from the lower reaches (0100) but sufficient remain to indicate satisfactory conditions for the present.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Br NE of Aughrim	197501	330291	26	LM
0100	Br d/s Owennayle Br	197111	326285	26	LM

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	68	24	0	100	3	5	62	0	0	0	30
0100	49	37	0	100	5	5	45	0	10	0	35

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **OWENUR**  
 Tributary of : Grange Lake  
 OS Grid Ref of Confluence: M 956 860  
 Date(s) Surveyed: 13/8/2008, 14/8/2008

26/O/06

OS Catchment No: 155

Station Nos.	Biological Quality Ratings (Q Values)								
	1980	1984	1987	1992	1996	1999	2002	2005	2008
0100	4	4	4	4	4	3-4	3	4	4
0300	4	4	4	4	4	4	3-4	4	4
0500	4	3-4	4	3-4	3	3	4	4	4

**Assessment:** Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Ballyoughter Br	187208	286506	33	RN
0300	Ballyslish Bridge	189321	287213	33	RN
0500	Bellanagrange Br	195473	286095	33	RN

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	45	39	0	100	82	0	0	0	10	1	7
0300	44	47	0	100	84	0	0	1	9	1	6
0500	39	340	4	96	80	1	3	0	6	1	9

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **RATH**  
 Tributary of : 26I01 INNY  
 OS Grid Ref of Confluence: N 187 575  
 Date(s) Surveyed: 20/8/2008

**26/R/01**  
 OS Catchment No: 157

Station Nos.	Biological Quality Ratings (Q Values)									
	1977	1981	1984	1988	1992	1996	1999	2002	2005	2008
0030	-	-	-	4	3	3-4	-	3-4*	3-4	3-4
0100	-	-	4-5	4	4	4	4	4	3-4	-
0200	-	-	4-5	4	3-4	-	-	-	-	-
0300	4	4	4-5	3-4	4	4	3-4	4	4	3-4*

**Assessment:** The Rath River was in an unsatisfactory ecological condition when surveyed in August 2008. The dominance of pollution tolerant taxa, excessive siltation and low dissolved oxygen concentrations observed at Washford Bridge (0030) indicated enriched conditions in the upper reaches. An unwelcome decline from good to moderate ecological conditions was evident in the lower reaches (0300) where heavy siltation, calcification and compaction of the substrate were noted. Recent nearby bank works may be contributing to the siltation observed.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0030	Washford Br	227199	250485	41	MH
0100	Br 2 km S of Moyvore	224251	252532	41	MH
0200	Br W of Cornamucklagh	0	0	41	MH
0300	Br u/s Inny R confl	220297	256302	41	LD

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0030	93	19	0	100	84	6	0	0	8	0	2
0100	69	32	0	100	87	3	0	0	9	0	1
0300	54	57	0	100	85	2	6	0	5	1	1

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.



River and Code : **RELAGH**  
 Tributary of :  
 OS Grid Ref of Confluence: N 125 978  
 Date(s) Surveyed: 18/7/2008

**26/R/05**  
 OS Catchment No: 155

Station Nos.	Biological Quality Ratings (Q Values)						
	1987	1992	1996	1999	2002	2005	2008
0100	4	-	-	-	-	-	-
0400	5	4-5	5	4-5	4-5	4-5	4-5
0700	5	-	3-4	4-5	4-5	4-5	-
0900	5	4	4	4	4	4	4*

**Assessment:** The Relagh River remains in satisfactory ecological condition in the upper (0400) and lower reaches (0900) in 2008. Some signs of enrichment were evident in the lower reaches with excessive siltation, algal growth and low dissolved oxygen concentrations noted.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br NW of Cornagher	0	0	34	LM
0400	Br u/s Drumroosk Branch confl	212647	304149	34	LM
0700	Br S of Edergole	212331	301416	34	LM
0900	Br u/s Cloone R confl	212569	297935	34	LM

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0400	63	3	0	100	0	0	0	0	99	0	1
0700	54	14	0	100	1	0	0	0	91	0	8
0900	46	18	0	100	2	0	0	0	91	0	7

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **RHINE**

**26/R/04**

Tributary of :

OS Catchment No: 155

OS Grid Ref of Confluence: N 266 805

Date(s) Surveyed: 25/7/2008, 30/7/2008

Station Nos.	Biological Quality Ratings (Q Values)									
	1987	1988	1989	1990	1992	1996	1999	2002	2005	2008
0200	2	2	1	2	2-3	2	2	2	2-3	3
0300	3	-	3	-	3	-	-	-	-	-
0700	4-5	-	-	-	3-4	3	3	3	4	4

**Assessment:** The complete lack of sensitive macroinvertebrate fauna indicated poor ecological conditions in the upper reaches (0100) of the Rhine River again in 2008. In the lower reaches (0700), the macroinvertebrate fauna indicated satisfactory ecological conditions, although some signs of enrichment were evident with enhanced macrophyte growth and excessive siltation observed.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br N of Cartron	232498	279390	41	LD
0300	Br WNW of Cartron	0	0	41	LD
0700	Ballymore Br	229519	280499	34	LD

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	85	3	0	100	98	0	0	2	0	0	0
0700	63	13	0	100	96	0	0	1	4	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **RINN**  
 Tributary of :  
 OS Grid Ref of Confluence: N 081 824  
 Date(s) Surveyed: 17/7/2008

**26/R/02**  
 OS Catchment No: 155

Station Nos.	Biological Quality Ratings (Q Values)														
	1971	1978	1980	1984	1986	1987	1988	1990	1992	1994	1996	1999	2002	2005	2008
0060	-	-	-	1	1	1	1	2	1-2	2-3	2-3	2-3	2-3	2-3	n/s
0100	3	2-3	3	3	2	2	3	-	3	-	2-3	2-3	2-3	2-3	2-3
0150	3-4	2-3	3-4	3	3	2-3	-	-	3	-	-	-	-	-	-
0200	-	-	3-4	3-4	3-4	4	-	-	-	-	3-4	3-4	3-4	4	3-4
0300	4-5	3-4	4-5	4	4-5	4-5	-	-	4	-	4-5	4	4	4	-
0400	-	3-4	4-5	4	4	4	-	-	3-4	-	4	-	4	4	3-4

**Assessment:** The Rinn River was in an unsatisfactory ecological condition both upstream and downstream of Lough Rinn in 2008. Low dissolved oxygen concentrations (56% saturation), heavy siltation, abundance of Lemna minor and the dominance of pollution tolerant taxa indicated poor ecological status downstream of Mohill (0100). Signs of enrichment were also evident downstream of Lough Rinn at Annaghveagh Bridge (0200) and at Cloonart Bridge (0400) where the complete lack of sensitive macroinvertebrate fauna, enhanced macrophyte growth and excessive siltation indicated an unwelcome decline in ecological status.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0060	Br 1.6 km d/s Mohill*	208850	295486	33	LM
0100	Br u/s Lough Rinn*	209296	293881	33	LM
0150	Tooman Br d/s L Rinn	0	0	33	LM
0200	Annaghveagh Br	210303	289700	33	LM
0300	Johnston's Br	209091	286462	33	LM
0400	Cloonart Br	208372	283181	33	LD

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0060	46	6	0	100	59	0	11	9	15	0	6
0100	40	22	0	100	65	0	24	3	4	0	3
0200	39	166	9	91	32	1	7	0	51	3	5
0300	38	280	26	74	51	1	11	0	31	2	4
0400	38	296	25	75	51	1	13	0	30	2	3

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **ROCKSAVAGE**

**26/R/07**

Tributary of : 26H01 HIND

OS Catchment No: 155

OS Grid Ref of Confluence: M 879 619

Date(s) Surveyed: 8/9/2008

*Previously reported as South Branch on Hind 26H01*

Station Nos.	Biological Quality Ratings (Q Values)							
	1987	1989	1992	1996	1999	2002	2005	2008
0250	3	3	4	4	4	4	3-4	3

**Assessment:** Deterioration was noted in this tributary of the Hind River (q.v.). Agricultural pressures are suspected.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0250	Br NE Ballygalda	186907	260961	0	RN

River and Code : **SCRAMOGE**

**26/S/01**

Tributary of : 26M03 MOUNTAIN (ROSCOMMON)

OS Catchment No: 155

OS Grid Ref of Confluence: M 965 838

Date(s) Surveyed: 7/8/2008, 13/8/2008

Station Nos.	Biological Quality Ratings (Q Values)									
	1981	1984	1986	1987	1992	1996	1999	2002	2005	2008
0050	-	-	-	4	4	4	4	4	4	4
0200	4-5	4	4	4	4	4	4	4-5	4	4
0300	3-4	4	4-5	4	3	4	4	4	4	4
0600	4	4	4-5	4	4	4	4	4-5	4	4
0700	-	-	5	4-5	3-4	3	3-4	4	3	3

**Assessment:** The Scramoge showed no change on the 2005 results. All sites were satisfactory apart from the last station (0700) upstream of its confluence with the Strokestown (q.v.) and the Mountain River flowing into Kilglass Lough. The stretch between Station 0600 and 0700 appears to be dominated largely by agriculture although there has been a build-up of houses in Scramoge.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Bridge d/s Lough Conny More	187053	282626	33	RN
0200	Cloonfree Bridge	191955	280416	33	RN
0300	Cloonconny Bridge	191272	277712	40	RN
0600	Scramoge Bridge	195251	279410	40	RN
0700	Gillstown Bridge	196636	283335	33	RN

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	54	52	0	100	85	0	0	0	9	0	6
0200	47	86	0	100	80	0	0	0	9	1	10
0300	47	136	0	100	82	0	1	0	7	1	8
0600	43	194	5	95	80	0	4	0	6	1	9
0700	39	202	5	95	80	1	4	0	6	1	9

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **SHANNON (UPPER)**

**26/S/02**

Tributary of :

OS Catchment No: 155

OS Grid Ref of Confluence: R 580 600

Date(s) Surveyed: 3/6/2008, 4/6/2008, 5/6/2008, 9/7/2008, 11/7/2008,  
13/8/2008, 17/7/2008, 25/7/2008

Station Nos.	Biological Quality Ratings (Q Values)												
	1972	1976	1982	1984	1985	1987	1990	1992	1996	1999	2002	2005	2008
0100	-	-	-	-	5	5	-	4	4-5	4	4	4	3-4
0200	-	-	5	-	5	5	-	5	5	4-5	4-5	-	4-5
0300	-	-	5	-	5	5	-	5	4-5	4-5	5	4	4-5
0380	-	-	-	4	-	4	-	-	-	-	-	-	-
0500	4-5	-	-	4-5	-	5	-	4	4-5	4	4	4	4
1010	-	-	-	-	-	-	-	4	3-4	4	3	4	3
1190	4	5	-	4-5	-	-	3-4	-	-	-	-	-	-
1410	-	-	-	-	-	-	-	-	3-4	4	3-4*	3-4	3-4
1415	-	-	-	-	-	-	3	2-3	3	3-4	3-4	-	-
1510	-	-	-	-	-	-	-	3	3-4	3-4	3-4*	3-4	-
1530	-	-	-	-	-	-	-	-	-	-	-	-	3-4
1590	-	-	-	-	-	-	-	2-3*	3*	-	-	-	-
1600	-	-	-	-	-	-	-	-	-	3*	3*	3	3-4*
1705	-	-	-	-	-	-	3	-	-	-	-	-	-
1720	-	-	-	-	-	-	3	2-3	3	3-4	3-4	3	3
1730	4-5	4	-	3-4	-	-	3-4	-	-	-	-	-	-
1740	4-5	4	-	3-4	-	-	4	-	-	-	-	-	-
1800	-	5	-	4	-	-	-	-	4	4	3-4	4	3-4

**Assessment:** The paucity of sensitive macroinvertebrate fauna, excessive siltation and presence of silt-slime complexes plus abundant moss growth at Derrylahan (0100) indicated some ecological upset in the Shannon upstream of Lough Allen in July 2008. The macroinvertebrate fauna indicated a welcome increase from good to high status at Dowra (0300) although some signs of enrichment (excessive siltation, enhanced macrophyte growth) were evident. Ecological condition remained satisfactory at Battle Bridge (0500) where abundant weed growth indicated some nutrient enrichment. The complete lack of sensitive macroinvertebrate fauna and enhanced weed and macroalgal growth indicated a decline in ecological status below Carrick on Shannon at Jamestown Weir (1010). Ecological status remained unsatisfactory downstream of Roosky (1410) and Tarmonbarry (1510 and 1530). The macroinvertebrate fauna at Ballyleague Bridge (1600) indicated a slight improvement in ecological condition. In addition to the ongoing thermal pollution at Lanesboro' (1600) where a water temperature of 25.4 degrees was recorded, luxuriant algal growths reflected some considerable eutrophication. There was no change in ecological condition at Athlone (1720) where the dominance of pollution tolerant macroinvertebrate, excessive siltation and enhanced weed and macroalgal growth continued to indicate significant ecological disruption.

*Hydrometric Area 26 (2008)*

<b>Station No.</b>	<b>Stations Location</b>	<b>National X</b>	<b>Grid Ref. Y</b>	<b>Discovery Series No.</b>	<b>County Code</b>
0100	Shannon Br Derrylahan	204499	330498	26	CN
0200	Metal Br S of Tullynafreave	202094	328921	26	CN
0300	Dowra Br	199124	326694	26	LM
0380	Bellantra Br	0	0	26	LM
0500	Battle Br	194869	305110	33	LM
1010	Jamestown: d/s Weir(LHS)	197915	297806	33	LM
1190	0.5 km u/s Roosky Bridge	0	0	33	LM
1410	Roosky: d/s Lock (LHS)	205325	285976	33	LM
1415	Roosky: d/s Old Canal (RHS)	205288	286227	33	RN
1510	d/s Tarmonbarry Weir (LHS)	205467	276697	40	LD
1530	1km d/s Camlin (S limb), S of Lodgetown (LHS)	204317	276208	40	
1590	0.5 km u/s Lanesboro Br (LHS)	200625	269484	40	LD
1600	Ballyleague Br Lanesboro	200543	269353	40	RN
1705	Athlone: just d/s Lock (RHS)	0	0	47	RN
1720	Athlone: Burgess Park (LHS)	204105	241004	47	MH
1730	Athlone: d/s Old Canal	0	0	47	MH
1740	Athlone: Wren Island	0	0	47	MH
1800	Clonmacnoise: at Jetty	200565	230634	47	OF

*Site Altitude and Upstream Catchment Characteristics (where available):*

<b>Site No.</b>	<b>Alt</b>	<b>Area</b>	<b>Sil</b>	<b>Cal</b>	<b>Pasture</b>	<b>Forestry</b>	<b>Bogs</b>	<b>Urban</b>	<b>Misc Ag.</b>	<b>Water</b>	<b>Other</b>
0100	95	4	0	100	0	0	100	0	0	0	0
0200	60	85	0	100	1	6	80	0	12	0	1
0300	51	117	0	100	3	6	69	0	18	0	4
0500	40	588	6	94	19	7	31	0	22	7	15
1010	39	1378	9	91	41	4	22	1	15	6	12
1410	38	1910	8	92	51	3	17	0	13	5	11
1415	38	1910	8	92	51	3	17	0	13	5	11
1510	39	2591	11	89	55	3	15	1	13	4	9
1590	39	2778	10	90	55	3	17	1	12	4	8
1600	39	2779	10	90	55	3	17	1	12	4	8
1720	37	4601	9	91	63	2	13	1	9	6	6
1800	32	4907	9	91	63	2	13	1	9	5	6

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **SHIVEN (SOUTH)**

**26/S/03**

Tributary of : 26S07 SUCK

OS Catchment No: 156

OS Grid Ref of Confluence: M 816 483

Date(s) Surveyed: 17/9/2008, 18/9/2008, 24/7/2008, 29/7/2008

Station Nos.	Biological Quality Ratings (Q Values)								
	1980	1984	1987	1992	1996	1999	2002	2005	2008
0040	-	-	2-3	3	3	3-4	2-3	4	3
0100	4	3-4	4	4	3	3	3-4	4	4
0200	3-4	3-4	3-4	3	3	4*	3	3	3-4
0300	5	4	4	4	4	4	4	4	4
0400	4	4	4	4	4	4	4	4	4-5

**Assessment:** The uppermost site on the Shiven had dropped in quality again in 2008 - this is a small rural catchment dominated by pastures. Upstream of its confluence with the Castlegar (q.v.) quality had improved again but dropped to slightly polluted at Station 0200 about 5km downstream of the Castlegar confluence. Quality improved again in the lower reaches upstream of the Suck confluence.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0040	Br near Fiddaun	163029	253631	39	GY
0100	Tirur Bridge	169873	249151	46	GY
0200	N Eskermurry	173280	248950	47	GY
0300	Ballinamore Bridge	175924	248761	47	GY
0400	Islandcausk Bridge	178709	249360	47	GY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0040	71	15	0	100	81	4	3	0	8	0	4
0100	53	49	0	100	60	6	23	0	7	0	4
0200	48	158	0	100	61	3	19	0	8	0	8
0300	48	241	0	100	57	3	21	0	9	0	9
0400	47	252	0	100	57	3	22	0	9	0	9

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.



River and Code : **SMAGHRAAN**  
 Tributary of : 26S07 SUCK  
 OS Grid Ref of Confluence: M 803 646  
 Date(s) Surveyed: 8/9/2008

**26/S/04**  
 OS Catchment No: 156

Station Nos.	Biological Quality Ratings (Q Values)							
	1984	1987	1992	1996	1999	2002	2006	2008
0100	3-4	4	4	3	3	3	3	3
0150	-	4	-	-	-	-	-	-
0200	4	4	3-4	4	4	4	4	3
0300	3-4	4	3-4	3-4	3-4	3-4	3-4	n/s

**Assessment:** The Smaghraan was moderately polluted where surveyed in September 2008. The drop in quality at Station 0200 in comparison with 2006 is notable as this location has generally been unpolluted in the past.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Smaghraan Bridge	182686	270766	40	RN
0150	Bridge N. of Lough Creevin	182132	270227	40	
0200	Br ESE Rockfield	181583	267994	40	RN
0300	Bridge SW Emlaghmagree	179953	265717	40	RN

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	69	22	0	100	78	1	5	0	8	0	8
0200	62	87	0	100	84	0	5	0	8	0	3
0300	56	98	0	100	84	0	5	0	8	0	3

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **SPRINGFIELD**  
 Tributary of : 26I03 ISLAND  
 OS Grid Ref of Confluence: M 660 720  
 Date(s) Surveyed: 15/8/2008

**26/S/05**  
 OS Catchment No: 156

Station Nos.	Biological Quality Ratings (Q Values)									
	1981	1984	1987	1989	1992	1996	1999	2002	2006	2008
0100	4	2-3	3	4	3	3-4	4	3	3-4	4
0150	4	3-4	5	-	3-4	4-5	4-5	4	4	-
0200	4	4	4-5	-	4	4-5	4	4	-	4

**Assessment:** Satisfactory with an improvement in quality at Station 0100.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Blacker's Bridge	165456	266414	39	GY
0150	Ford at Monasterowen	164347	269482	39	GY
0200	Ballaghaugeag Bridge	166182	270551	39	GY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	75	26	0	100	50	1	39	0	6	0	4
0150	69	39	0	100	58	1	29	0	6	0	6
0200	66	51	0	100	58	1	27	0	6	0	9

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **STROKESTOWN**

**26/S/08**

Tributary of : 26M03 MOUNTAIN (ROSCOMMON)

OS Catchment No: 155

OS Grid Ref of Confluence: M 965 838

Date(s) Surveyed: 14/8/2008

Station Nos.	Biological Quality Ratings (Q Values)							
	1984	1987	1992	1996	1999	2002	2006	2008
0050	-	3	2-3	2-3	2-3	3	3-4	2-3
0100	3-4	3	2-3	4	2-3	3	3	3
0200	4	4	4	3-4	4	4	3-4	4

**Assessment:** Deterioration to poor status was seen in Strokestown village downstream of the old landfill. Station 0100 downstream of the town of Strokestown showed no change but an improvement to good status was seen at the last site (0200) upstream of its confluence with the Scramoge River (q.v.).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Br at S. end of Strokestown	193240	280596	33	RN
0100	Br 1.5 km d/s Strokestown	194259	280946	33	RN
0200	Br SW Toberpatrick	195605	283792	33	RN

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	47	3	0	100	92	0	0	8	0	0	0
0100	45	4	0	100	84	0	0	11	0	0	5
0200	39	12	0	100	71	0	0	4	10	0	15

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **SUCK**

**26/S/07**

Tributary of : 26S02 SHANNON (Upper)

OS Catchment No: 156

OS Grid Ref of Confluence: M 965 249

Date(s) Surveyed: 23/7/2008, 24/7/2008, 29/7/2008

Station Nos.	Biological Quality Ratings (Q Values)													
	1971	1974	1978	1980	1983	1984	1987	1992	1996	1999	2000	2002	2005	2008
0030	-	-	-	-	-	-	3-4	4	3-4	4	-	4-5	4	3
0050	-	-	-	-	-	-	4	4	4	4-5	-	4-5	4-5	4-5
0100	5	5	5	4-5	-	4	4-5	4-5	4-5	4-5	-	4-5	4-5	-
0200	-	-	-	-	-	-	4	4	4-5	4-5	-	4-5	4	-
0300	5	4	4-5	4	-	4	4	3	4	4	-	4	4	-
0400	-	-	4	4	-	4	4	4	3	4	-	4	4	-
0500	5	4-5	4	4	-	4	4-5	4-5	4	4	-	4-5	4	4
0540	-	-	-	-	-	-	-	-	-	-	-	4	-	-
0550	-	-	-	4	-	4	4	4	4	4	-	-	4	-
0600	5	4-5	4-5	4-5	-	4-5	4	4	4	3-4	-	4-5	4	4
0650	-	-	-	-	-	-	-	-	4	4	-	3-4	4	4
0700	-	-	4-5	5	-	4-5	4-5	4-5	4	4-5	-	4-5	4-5	4
0800	5	4	4-5	3-4	-	3-4	3-4	4	3-4	4	-	3-4	4	4
0870	-	-	-	-	-	-	-	-	3	3	-	3-4	4	4
0900	5	3-4	4-5	4-5	-	4	4-5	4	3-4	4	-	3	4	4
1000	-	5	4-5	5	-	4-5	4-5	4	4	4	-	4-5	4-5	-
1100	5	5	4-5	4	-	4	4	4	4	4	-	4-5	4-5	4-5
1125	-	-	-	-	4	-	4	4	4	4	-	4	4	-
1200	5	5	4-5	4-5	4-5	-	4-5	4-5	4	3-4	-	4	4	4
1300	-	-	-	4	3-4	-	3-4	3-4	3-4	4	-	4	3	-
1400	4	4	4	3	3-4	-	3	3	2-3	2-3	3	3-4	3	3-4
1500	4-5	3-4	4-5	3-4	3-4	-	3	3-4	3	3	-	3-4	3	3

**Assessment:** The River Suck was generally satisfactory at all stations surveyed apart from the first upstream of Lough O'Flynn and last two downstream of Ballinasloe. The upper site is quite eutrophic and somewhat silted most likely due to agricultural sources impacting what is a small 2nd order tributary of L. Flynn at this point. The lower reaches (1400, 1500) are impacted by a number of potential pollution sources in Ballinasloe and downstream of the town - at this point the Suck is a large 5th order river. A slight improvement in quality was seen at Pollboy (Station 1400) compared with 2005.

*Hydrometric Area 26 (2008)*

<b>Station No.</b>	<b>Stations Location</b>	<b>National X</b>	<b>Grid Ref. Y</b>	<b>Discovery Series No.</b>	<b>County Code</b>
0030	Bridge u/s Lough O'Flynn	157385	280500	32	RN
0050	Bridge d/s Lough O'Flynn	159003	280375	32	RN
0100	Bridge W. of Cloonalis	165281	280859	32	RN
0200	Bridge u/s Castlereaa	167305	280261	32	RN
0300	Cloondacarra Bridge	167101	278033	39	RN
0400	Br E. of Willsbrook House	169289	275583	39	RN
0500	Ballymoe Bridge	169822	271964	39	GY
0540	1 km u/s Lough Doo trib	174500	267845	0	RN
0550	500 m d/s Lough Doo trib	175319	267285	40	RN
0600	Donamon Bridge	178917	264887	40	RN
0650	Castlecoote Br	180847	262617	40	RN
0700	Castlestrange Bridge	182015	259394	40	RN
0800	Athleague Bridge	182798	257857	40	RN
0870	N of Gorteenclough	181174	258964	40	RN
0900	Rookwood Bridge	180959	257609	40	RN
1000	Mount Talbot Bridge	181202	252992	40	RN
1100	Ballyforan Bridge	181567	246442	47	RN
1125	Derrycahill Br	182560	242540	47	GY
1200	Bellagill Bridge	184205	234700	47	RN
1300	Ballinasloe Bridge	185755	231114	47	GY
1400	3 km d/s B'nasloe (Pollboy)	187337	229152	47	RN
1500	Correen Ford	190051	225729	47	GY

*Site Altitude and Upstream Catchment Characteristics (where available):*

<b>Site No.</b>	<b>Alt</b>	<b>Area</b>	<b>Sil</b>	<b>Cal</b>	<b>Pasture</b>	<b>Forestry</b>	<b>Bogs</b>	<b>Urban</b>	<b>Misc Ag.</b>	<b>Water</b>	<b>Other</b>
0030	79	6	0	100	44	0	35	0	21	0	0
0050	78	17	0	100	40	3	36	2	9	10	1
0100	72	55	0	100	32	2	54	1	8	3	1
0200	70	58	0	100	33	3	52	1	8	3	1
0300	64	162	0	100	44	2	35	1	6	1	11
0400	61	185	0	100	47	2	33	1	7	1	11
0500	58	362	0	100	53	1	28	1	7	0	9
0550	55	419	0	100	56	1	26	0	7	0	9
0600	53	438	0	100	57	1	26	0	7	0	9
0650	52	584	0	100	63	1	21	0	7	0	8
0700	51	596	0	100	63	1	21	0	7	0	8
0800	50	627	0	100	64	1	20	0	7	0	7
0870	47	629	0	100	64	1	20	0	7	0	7
0900	47	640	0	100	64	1	20	0	7	0	8
1000	46	683	0	100	64	1	19	0	7	0	8
1100	44	1008	0	100	62	2	20	0	7	0	9
1125	42	1071	0	100	63	2	20	0	7	0	8
1200	40	1207	0	100	62	1	21	0	6	0	8
1300	38	1428	0	100	64	2	19	0	7	0	8
1400	38	1437	0	100	64	2	19	1	7	0	8
1500	38	1460	0	100	64	2	19	1	7	0	8

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **TERMON STREAM**

**26/T/03**

Tributary of : 26F05 FRANCIS

OS Catchment No: 156

OS Grid Ref of Confluence: M 695 795

Date(s) Surveyed: 15/8/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1989	1994	1996	1999	2002	2005	2008
0300	4	4	2-3	4-5	4	4-5	4

**Assessment:** Good status - declining from high status in 2005.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Br W Ardass	170299	280385	32	RN

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	71	34	0	100	60	1	16	0	2	0	21

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **YELLOW (BALLINAGLERA)**

**26/Y/01**

Tributary of :

OS Catchment No: 155

OS Grid Ref of Confluence: G 983 210

Date(s) Surveyed: 10/7/2008

Station Nos.	Biological Quality Ratings (Q Values)							
	1986	1987	1992	1996	1999	2002	2005	2008
0100	4	4	4	5	4	4-5	4	3-4*
0200	4	4	4	4-5	4	4-5	4	4

**Assessment:** The Yellow River is subject to severe scouring by flash floods and, because of the very low buffering capacity of the water, there is a possibility of acid impacts from upstream forestry. These factors could account for the relatively impoverished fauna observed in the upper reaches (0100). Ecological conditions remain satisfactory in the lower reaches (0200) where an improvement in macroinvertebrate faunal diversity was observed in 2008.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br N of Aughrim	202895	322302	26	LM
0200	Br u/s Lough Allen	199102	322001	26	LM

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	149	13	0	100	0	1	74	0	9	0	16
0200	54	36	0	100	6	8	54	0	18	0	14

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **YELLOW (CASTLEPOLLARD)**

**26/Y/02**

Tributary of :

OS Catchment No: 157

OS Grid Ref of Confluence: N 425 688

Date(s) Surveyed: 6/8/2008

Station Nos.	Biological Quality Ratings (Q Values)							
	1984	1987	1992	1996	1999	2002	2005	2008
0060	-	-	-	-	4-5	3-4*	3-4	3-4*
0100	4	4	4	4	4	4	3-4	-
0200	3-4	4	-	-	-	-	-	-
0250	-	4	3-4	3-4	-	3	3-4	3-4*

**Assessment:** The Yellow (Castlepollard) River remains in an unsatisfactory ecological condition in 2008. The lack of sensitive macroinvertebrate fauna, excessively heavy siltation and enhanced macrophyte growth indicated eutrophic conditions in the upper reaches at Ballyknock Bridge (0060) and in the lower reaches at Kiltoom Bridge (0250). Agriculture and sewage suspected.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0060	Ballyknock Br	250498	265008	41	MH
0100	Br N of Milltown	246394	266808	41	MH
0200	Third Br u/s L Derravarragh	0	0	41	MH
0250	Kiltoom Br (2nd Br u/s lake)	243696	269136	41	MH

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0060	80	15	0	100	88	3	1	1	7	0	0
0100	67	24	0	100	91	4	1	0	5	0	0
0250	64	46	0	100	82	5	0	2	8	0	3

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.



<b>HYDROMETRIC AREA 33 (Blacksod – Broadhaven)</b>	
ALTNABROCKY	33A02
BALLINGLEN	33B01
BARROOSKY	33B08
BELDERG	33B02
BELLAGARVAUN	33B04
BELLANABOY	33B07
BUNANIOO	33B09
CARTRON	33C02
CLOONALAGHAN	33C01
CLOONEEN (MAYO)	33C03
DOOEGA	33D01
DOOLOUGH STREAM	33D02
GLENAMOY	33G01
GLENCASTLE	33G08
GLENCULLIN (NORTH MAYO)	33G02
GLENCULLIN (WEST MAYO)	33G03
GLENGLOSSERA	33G05
GORTMORE STREAM (MAYO)	33G04
GWEEDANEY	33G06
KEERGLEN	33K01
MUING	33M01
MUINGNABO	33M02
MUNHIN	33M03
OWENDUFF (BLACKSOD)	33O01
OWENMORE (MAYO)	33O04
SHESKIN STREAM	33S03
SRAHDUGGAN STREAM *	33S05
TARSAGHAUNMORE	33T01

\* SRAHDUGGAN STREAM Formerly S Branch of Owenduff

River and Code : **ALTNABROCKY** **33/A/02**  
 Tributary of : 33O04 OWENMORE (MAYO) OS Catchment No: 105  
 OS Grid Ref of Confluence: F 980 198  
 Date(s) Surveyed: 22/9/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1990	1994	1997	1999	2002	2005	2008
0100	5	4-5	4-5	4-5	4-5	4	4

**Assessment:** The Altnabrocky was in satisfactory condition with no change since the 2005 survey.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Just u/s Owenmore River confl	96895	319813	23	MO

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	74	33	34	66	0	15	34	0	0	0	52

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BALLINGLEN**  
 Tributary of :  
 OS Grid Ref of Confluence: G 103 393  
 Date(s) Surveyed: 12/9/2008

**33/B/01**  
 OS Catchment No: 102

Station Nos.	Biological Quality Ratings (Q Values)								
	1981	1986	1990	1994	1997	1999	2002	2005	2008
0100	5	5	5	-	4-5	4-5	4-5	4-5	4-5
0110	-	-	-	5	-	-	-	-	-
0150	-	5	4-5	-	-	4-5	-	-	-
0200	4	4	4	4-5	4	-	5	4	4
0210	-	-	-	-	-	-	3	-	-

**Assessment:** No change in status was noted in the Ballinglen when surveyed in September 2008.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Ballinglen Bridge	110246	334211	23	MO
0110	Bridge d/s Ballinglen Bridge	110255	334675	23	MO
0150	Ballyglass Br	110073	337938	23	MO
0200	New Bridge	110178	338332	23	MO
0210	New Bridge (RHS)	0	0	23	MO

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	29	33	0	100	19	11	57	0	4	0	9
0150	10	42	0	100	24	9	56	0	4	0	7
0200	7	42	0	100	25	8	55	0	4	0	7

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

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River and Code : **BARROOSKY**  
Tributary of : 33G01 GLENAMOY  
OS Grid Ref of Confluence: F 929 333  
Date(s) Surveyed: 25/9/2008

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**33/B/08**

OS Catchment No: 100

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Station Nos.	Biological Quality Ratings (Q Values)		
	2002	2005	2008
0400	4-5	4-5	4-5

**Assessment:** This Glenamoy River (q.v.) tributary retained its high status in September 2008.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0400	0.3km u/s Glenamoy (end of road)	93087	333218	23	MO

River and Code : **BELDERG**  
 Tributary of : Sea - Belderg Harbour  
 OS Grid Ref of Confluence: F 993 414  
 Date(s) Surveyed: 1/10/2008

**33/B/02**

OS Catchment No: 99

Station Nos.	Biological Quality Ratings (Q Values)						
	1990	1994	1997	1999	2002	2005	2008
0200	4-5	4	4	4	3-4	4	4
0300	4	-	-	-	-	-	-

**Assessment:** The Belderg remained in satisfactory condition.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Bridge in Belderg	99124	339459	23	MO
0300	W. of Raheen (at T-junction)	98992	340546	23	MO

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	14	15	100	0	8	6	71	0	0	3	12

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BELLAGARVAUN**  
 Tributary of : Sea - E.S.E. of Inishbiggle  
 OS Grid Ref of Confluence: F 824 044  
 Date(s) Surveyed: 3/9/2008

**33/B/04**

OS Catchment No: i5

Station Nos.	Biological Quality Ratings (Q Values)						
	1990	1994	1997	1999	2002	2005	2008
0300	3-4	3-4	3-4	3	3	3	4

**Assessment:** The Bellagarvaun improved in quality in comparison with the 2005 survey and was in satisfactory condition.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Br EWN Bellaveeny	82977	304678	22	MO

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	3	24	99	1	0	32	58	0	8	0	2

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BELLANABOY**  
 Tributary of : Carrowmore Lake  
 OS Grid Ref of Confluence: F 849 304  
 Date(s) Surveyed: 25/9/2008

**33/B/07**  
 OS Catchment No: 105

Station Nos.	Biological Quality Ratings (Q Values)						
	1990	1994	1997	1999	2002	2005	2008
0100	4-5	-	-	-	-	-	-
0200	4-5	4	4	4-5	4	4	4

**Assessment:** The Bellanaboy River, a tributary of Carrowmore Lake, was in satisfactory condition in September 2008 with little change observed compared with the 2005 and 2002 surveys.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bellanaboy Bridge	85725	332185	23	MO
0200	Bridge u/s Carrowmore Lake	85742	331675	23	MO

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	10	20	97	3	5	7	57	0	7	0	25

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BUNANIOO**  
 Tributary of : Sea - Achill Sound  
 OS Grid Ref of Confluence: L 735 947  
 Date(s) Surveyed: 2/9/2008

**33/B/09**  
 OS Catchment No: i5

Station Nos.	Biological Quality Ratings (Q Values)						
	1990	1994	1997	1999	2003	2005	2008
0100	5	4	4-5	4	4	3-4	4-5

**Assessment:** A significant improvement was noted in this Achill Sound tributary when compared with the 2005 survey. While it is now in satisfactory condition significant signs of overgrazing damage were still obvious on the south-eastern shore slopes of Achill Sound, north of the Bunanioo monitoring site.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bunanioo Bridge	73722	294193	30	MO

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	33	4	85	15	0	0	100	0	0	0	0

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.



River and Code : **CARTRON** **33/C/02**  
 Tributary of : Sea - Bellacragher Bay OS Catchment No: 15  
 OS Grid Ref of Confluence: F 800 015  
 Date(s) Surveyed: 2/9/2008

Station Nos.	Biological Quality Ratings (Q Values)								
	1982	1986	1990	1994	1997	1999	2002	2005	2008
0100	4-5	4-5	4	4	3-4	3	3	3-4	4

**Assessment:** Satisfactory with a slight improvement in quality noted in the Cartron in early September 2008.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge W. of Lough Gall	80000	300184	30	MO

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	15	10	96	4	0	39	49	0	0	2	10

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CLOONALAGHAN**

**33/C/01**

Tributary of : Sea - Lacken Bay

OS Catchment No: 103

OS Grid Ref of Confluence: G 189 366

Date(s) Surveyed: 12/9/2008

Station Nos.	Biological Quality Ratings (Q Values)							
	1989	1990	1994	1997	1999	2002	2005	2008
0300	-	4-5	4	5	4-5	4	4	-
0700	4	2-3	3	4	2-3	4	4	4

**Assessment:** Satisfactory, no change on 2005.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Bridge S.E. of Billoos X-Rds	114732	333565	23	MO
0700	Bridge S.E. of Carrowmore	117059	334260	24	MO

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	57	4	0	100	19	16	59	0	1	0	4
0700	11	13	0	100	60	6	19	0	8	0	7

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CLOONEEN (MAYO)** **33/C/03**  
 Tributary of : Sea - Moyrahan Bay OS Catchment No: k5  
 OS Grid Ref of Confluence: F 706 355  
 Date(s) Surveyed: 4/9/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1990	1994	1997	1999	2002	2005	2008
0025	-	-	-	-	-	3	-
0050	3/0	3/0	3	3	3	3B	3

**Assessment:** Unsatisfactory. The Clooneen located north of Belmullet drains an extensive worked bog. No pollution sensitive macroinvertebrate taxa were found and diversity was low.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0025	Br S Clooneen (N Branch)	68890	336588	22	MO
0050	W of Bartrauve (nr road fork)	70294	335940	22	MO

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	3	13	100	0	25	0	63	0	11	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DOOEGA**  
 Tributary of : Sea - Pollbaun Point  
 OS Grid Ref of Confluence: L 671 987  
 Date(s) Surveyed: 3/9/2008

**33/D/01**

OS Catchment No: i5

Station Nos.	Biological Quality Ratings (Q Values)						
	1990	1994	1997	1999	2003	2005	2008
0200	4	3-4	4	4	4	4	3

**Assessment:** A loss of pollution-sensitive taxa was noted in September 2008 in the Dooega. Even the relatively tolerant *Leuctra* was not found - it had been recorded in all previous samples back to 1990. The catchment is quite built-up with significant numbers of holiday homes. The upper slopes appear to be still quite severely overgrazed. The bare slopes suggest that possibility of bog-slides being a danger in wet weather. Locally in Dooega (Station 0200) *Gunnera* appeared to have been cleared artificially along the river bank. It would be important that if herbicides are used for this purpose that they are used with great care near water. Experimental clearance of *Gunnera* at Dooega in 2008 has apparently used glyphosate and triclopyr and it is certainly a possibility that the loss of *Leuctra* and other more pollution sensitive taxa may be due to herbicide entering water.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	South Bridge at Dooega	66984	299109	30	MO

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	7	10	100	0	3	0	86	0	11	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DOOLOUGH STREAM**

**33/D/02**

Tributary of : Sea - Blacksod Bay

OS Catchment No: k5

OS Grid Ref of Confluence: F 745 246

Date(s) Surveyed: 4/9/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1990	1994	1997	1999	2003	2005	2008
0100	3-4	3	3	3-4	3-4	3-4	3

**Assessment:** The Doolough Stream was moderately polluted when surveyed in early September 2008.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge S. of Lough Nahelly	74973	324758	22	MO

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	6	15	100	0	2	0	83	0	3	0	12

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **GLENAMOY**  
 Tributary of : Sea - Sruwaddacon Bay  
 OS Grid Ref of Confluence: F 870 360  
 Date(s) Surveyed: 1/10/2008

**33/G/01**

OS Catchment No: 100

Station Nos.	Biological Quality Ratings (Q Values)								
	1981	1986	1990	1994	1997	1999	2002	2005	2008
0020	-	-	-	-	-	-	4-5	4	4-5
0050	4-5	4-5	4-5	3-4*	4-5	4-5	4	4-5	4-5
0100	5	4-5	4-5	3-4*	4-5	4-5	4-5	4	4

**Assessment:** The Glenamoy was in satisfactory condition over its length when surveyed in 2008.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0020	Br N Glencarly	96418	334745	23	
0050	Bridge S.E. of Bunalty	92013	333569	23	MO
0100	Glenamoy Bridge	89357	333799	23	MO

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	13	51	85	15	11	12	59	0	1	0	17
0100	5	81	90	10	10	10	62	0	2	0	16

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **GLENCASTLE**

**33/G/08**

Tributary of : Sea - Trawmore Bay

OS Catchment No: k5

OS Grid Ref of Confluence: F 750 290

Date(s) Surveyed: 22/9/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1990	1994	1997	1999	2002	2005	2008
0200	-	4-5	3-4	4	3-4	3	4
0300	4-5	-	-	-	-	-	-
0500	4	3	4	4	4	4	4

**Assessment:** Both sites sampled on the Glencastle in September 2008 were of good ecological status.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br u/s Glencastle Br.	78259	326970	22	MO
0300	Glencastle Bridge	77317	327650	22	MO
0500	Bridge S. of Bunnahowen	75404	328466	22	MO

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	53	5	98	2	0	0	93	0	0	0	7
0500	6	10	99	1	24	0	68	4	1	0	4

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **GLENCULLIN (NORTH MAYO)**

**33/G/02**

Tributary of : Sea - Bunatrahir Bay

OS Catchment No: 101

OS Grid Ref of Confluence: G 095 398

Date(s) Surveyed: 12/9/2008

Station Nos.	Biological Quality Ratings (Q Values)								
	1981	1986	1990	1994	1997	1999	2002	2005	2008
0100	5	5	4-5	4-5	4-5	4-5	3-4	4	4
0200	5	5	5	4-5	4-5	4-5	4	4	4

**Assessment:** Both sites surveyed on the Glencullin (North Mayo) were satisfactory in September 2008.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br NE Sralagagh East	108440	337579	23	MO
0200	Killerduff Bridge	109339	339262	23	MO

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	49	15	0	100	2	32	38	0	0	0	28
0200	8	18	0	100	13	26	36	0	2	0	23

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.



River and Code : **GLENCULLIN (WEST MAYO)**

**33/G/03**

Tributary of : Carrowmore Lake

OS Catchment No: 105

OS Grid Ref of Confluence: F 844 284

Date(s) Surveyed: 22/7/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1990	1994	1997	1999	2002	2005	2008
0025	-	-	-	-	-	3-4	4
0100	-	-	-	-	4	4	4
0200	4-5	5	5	4-5	-	-	-

**Assessment:** An improvement was noted in the upper Glencullin (0025) in comparison with 2005. Siltation was evident in the lower section (0100) due to channel works upstream with mechanical diggers operating in the river.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0025	SSW Glencullin Upper	90746	325830	23	MO
0100	Br u/s Carrowmore Lake	86331	327397	23	MO
0200	1 km u/s Carrowmore Lake	85152	328041	23	MO

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	8	20	32	68	12	2	66	0	0	0	19

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **GLENGLOSSERA**

**33/G/05**

Tributary of : Sea - Glenloss Point

OS Catchment No: m5

OS Grid Ref of Confluence: G 024 416

Date(s) Surveyed: 1/10/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1990	1994	1997	1999	2002	2005	2008
0100	4	4-5	4-5	4-5	4-5	4-5	4-5

**Assessment:** High status was maintained in this North Mayo river in early October 2008.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br near Glenlossera Lodge	102266	341155	23	MO

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	20	10	63	37	0	6	84	0	0	0	10

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **GORTMORE STREAM (MAYO)** 33/G/04  
 Tributary of : Sea - Bunatrahir Bay OS Catchment No: n5  
 OS Grid Ref of Confluence: G 108 400  
 Date(s) Surveyed: 12/9/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1990	1994	1997	1999	2002	2005	2008
0500	5	-	-	-	-	-	-
0800	4	4	3-4	4	4	4	4

**Assessment:** Continuing satisfactory - good ecological status.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0500	Bridge W of Crott	112342	337800	23	MO
0800	Bridge W. of Gortmore	111008	339455	23	MO

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0800	6	16	0	100	53	1	30	0	16	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **GWEEDANEY**  
 Tributary of : Sea - Broad Haven  
 OS Grid Ref of Confluence: F 850 391  
 Date(s) Surveyed: 25/9/2008

**33/G/06**  
 OS Catchment No: 15

Station Nos.	Biological Quality Ratings (Q Values)						
	1990	1994	1997	1999	2002	2005	2008
0100	4	3	3-4	4	3	3	3-4
0200	4	-	-	-	-	-	-

**Assessment:** A slight improvement was noted in the Gweedaney but there is still evidence of significant hydromorphological damage to the river due to poor land use management in the catchment. The immediate catchment has been seriously overgrazed in the past.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge E. of Curraunboy	85339	340568	23	MO
0200	Br SE of Curraunboy	84973	339413	23	MO

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	15	4	100	0	0	0	100	0	0	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

*Hydrometric Area 33 (2008)*

River and Code : **KEERGLLEN**  
 Tributary of : 33B01 BALLINGLEN  
 OS Grid Ref of Confluence: G 105 338  
 Date(s) Surveyed: 12/9/2008

**33/K/01**  
 OS Catchment No: 102

Station Nos.	Biological Quality Ratings (Q Values)						
	1990	1994	1997	1999	2002	2005	2008
0200	5	5	4-5	5	5	5	4-5

**Assessment:** Continuing high status in September 2008.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	SW of Kilkeerglen	109269	333221	23	MO

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	59	14	0	100	4	16	72	0	0	0	8

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **MUING** **33/M/01**  
 Tributary of : 33O04 OWENMORE (MAYO) OS Catchment No: 105  
 OS Grid Ref of Confluence: F 971 199  
 Date(s) Surveyed: 22/9/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1990	1994	1997	1999	2002	2005	2008
0100	4	3-4	3-4	3-4	3-4	3-4	3-4

**Assessment:** The Muing was again slightly polluted in September 2008. This river is still impacted by peat siltation and the upstream catchment has extensive forestry plantations.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Just u/s Owenmore River	97063	319984	23	MO

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	72	19	0	100	0	12	65	0	0	3	20

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **MUINGNABO**

**33/M/02**

Tributary of :

OS Catchment No: 98

OS Grid Ref of Confluence: F 870 358

Date(s) Surveyed: 25/9/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1990	1994	1997	1999	2002	2005	2008
0100	4-5	-	-	-	-	-	4
0140	-	-	-	-	3-4	-	-
0150	-	4	3-4	4	-	4B	-

**Assessment:** The Muingnabo was satisfactory where sampled. A more upstream location was chosen than in 2005 in order to avoid any possibility of salt intrusion. Most of the upstream catchment is part of the Glenamoy Bog Complex although there are some large forestry plantations in the upper catchment.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	2km u/s Annie Bradys Br	88760	338488	23	MO
0140	0.6km u/s Annie Brady's Bridge	88167	337613	23	MO
0150	0.3 km u/s Annie Brady Bridge	87839	337375	23	MO

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0150	2	36	100	0	5	5	70	0	1	0	19

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **MUNHIN** **33/M/03**  
 Tributary of : 33O04 OWENMORE (MAYO) OS Catchment No: 105  
 OS Grid Ref of Confluence: F 818 228  
 Date(s) Surveyed: 22/7/2008

Station Nos.	Biological Quality Ratings (Q Values)								
	1981	1986	1990	1994	1997	1999	2002	2005	2008
0100	4-5	4	4	-	-	-	-	-	-
0200	4	4-5	4-5	4	4	4	3-4	3-4	4

**Assessment:** An improvement was noted in the Munhin in comparison with the 2005 survey.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Munhin Bridge	83774	325327	22	MO
0200	Bridge u/s Owenmore River	82161	323265	22	MO

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	9	88	75	25	6	7	56	0	5	11	14
0200	3	105	79	21	7	6	60	0	5	10	13

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.



River and Code : **OWENDUFF (BLACKSOD)**

**33/O/01**

Tributary of : Sea - Tullaghan Bay

OS Catchment No: 106

OS Grid Ref of Confluence: F 794 150

Date(s) Surveyed: 3/9/2008, 4/9/2008

Station Nos.	Biological Quality Ratings (Q Values)								
	1981	1986	1990	1994	1997	1999	2002	2005	2008
0010	-	5	4	4	4	4	4-5	4-5	4
0020	-	5	4-5	4-5	4	4-5	4	4	4
0030	-	5	4-5	4	4	4	4	4	4
0050	4-5	5	4-5	-	-	-	-	-	-
0100	4	5	4	4	4	4-5	4	4	4

**Assessment:** All sites sampled on the Owenduff in early September 2008 were of good ecological status.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0010	N. of Srahduggan	86674	307298	23	MO
0020	Near Sheean Lodge	84119	309685	23	MO
0030	Ford u/s Tarsaghanmore River	83253	314271	22	MO
0050	1.5 km u/s Srahnamanragh Br	80629	315147	22	MO
0100	Srahnamanragh Bridge	80085	314675	22	MO

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0010	48	34	100	0	0	0	91	0	1	0	8
0020	36	57	100	0	0	1	90	0	2	1	7
0030	21	77	100	0	0	1	91	0	2	1	5
0050	6	119	100	0	1	0	89	0	2	0	7
0100	1	127	99	1	1	0	88	0	4	0	6

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **OWENMORE (MAYO)**

33/O/04

Tributary of : Sea - Tullaghan Bay

OS Catchment No: 105

OS Grid Ref of Confluence: F 803 208

Date(s) Surveyed: 21/7/2008, 22/7/2008

Station Nos.	Biological Quality Ratings (Q Values)									
	1980	1981	1986	1990	1994	1997	1999	2002	2005	2008
0050	-	-	4-5	5	4-5	4	4-5	4	4	4-5
0090	5	-	-	4-5	-	-	-	-	-	-
0100	4	-	4-5	5	-	-	-	-	-	-
0250	-	-	4-5	4	-	-	-	-	4	4-5
0270	-	-	-	4	4	4-5	4-5	4-5	4-5	-
0280	-	-	-	4-5	-	-	-	-	-	-
0300	-	4-5	4	4	4-5	4-5	4-5	4-5	4	4
0301	-	-	-	3	2-3	4	-	-	-	-
0325	-	-	-	-	-	-	-	-	-	4
0400	-	-	-	5	-	-	4-5	4	4-5	-
0450	-	-	-	4	-	-	-	-	-	-
0500	-	-	-	4	4	4-5	4	4-5	4-5	4

**Assessment:** The Owenmore (Mayo) was satisfactory when surveyed in 2008. The upper section had less silt than historically and as with the Sheskin stream (q.v.) it appears to be responding well to the closure of the bogs upstream. Status was high in the upper reaches. Algal abundance was a cause of concern in the lower section (0300) upstream of Bangor village. A new site downstream of the Bangor wastewater treatment plant (0325) was added in 2008 replacing a site somewhat further downstream.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Br SE Srahnakilly	97833	323161	23	MO
0090	0.3 km u/s Bellacorick Bridge	97400	320300	23	MO
0100	Bellacorick Bridge	96684	320090	23	MO
0250	Ballymonnelly Br	93854	321273	23	MO
0270	SW of Largan	90910	322380	23	MO
0280	2.3 km u/s Br at Bangor Erris	87980	322275	23	MO
0300	Br at Bangor Erris (Main fl)	86265	322880	23	MO
0301	Bridge at Bangor Erris (RHS)	86232	322861	23	MO
0325	D/s Bangor WWT plant.	85334	322667	23	MO
0400	At Srahmore 3 km u/s Munhin	83226	323361	22	MO
0450	100 m d/s Munhin River confl	81574	322818	22	MO
0500	700 m d/s Munhin River confl	81414	322552	22	MO

**Site Altitude and Upstream Catchment Characteristics (where available):**

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	80	68	10	90	2	20	61	0	0	0	17
0100	71	159	11	89	1	18	53	0	0	0	28
0270	54	196	11	89	1	15	56	0	1	0	26
0300	24	214	14	86	2	14	58	0	1	0	25
0301	24	214	14	86	2	14	58	0	1	0	25
0400	10	222	17	83	3	13	58	0	1	0	24
0500	1	330	36	64	4	11	59	0	2	3	20

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **SHESKIN STREAM** 33/S/03  
 Tributary of : 33O04 OWENMORE (MAYO) OS Catchment No: 105  
 OS Grid Ref of Confluence: F 979 232  
 Date(s) Surveyed: 21/7/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1990	1994	1997	1999	2002	2005	2008
0150	5	4-5	4-5	4-5	4	4	4-5

**Assessment:** The Sheskin showed some improvement in July 2008. Peat harvesting has ceased for the old Bellacorick peat-fired station, which has now been decommissioned since 2005, and it is to be hoped that the river will gradually recover even further; returning to a stable state of high ecological status now that this impact is much reduced.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0150	Bridge 1 km u/s Oweniny R	97532	324008	23	MO

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0150	83	32	0	100	0	25	39	0	0	0	36

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

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River and Code : **SRAHDUGGAN STREAM** **33/S/05**  
 Tributary of : 33O01 OWENDUFF (BLACKSOD) OS Catchment No: 33  
 OS Grid Ref of Confluence: F 866 073  
 Date(s) Surveyed: 3/9/2008

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*Formerly S Branch of Owenduff*

Station Nos.	Biological Quality Ratings (Q Values)					
	1994	1997	1999	2002	2005	2008
0005	3-4	4	4	4	4	4

**Assessment:** This Owenduff (q.v.) tributary was in satisfactory condition in September 2008.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0005	Ford u/s confl with Owenduff R	86680	307110	23	MO

River and Code : **TARSAGHAUNMORE** **33/T/01**  
 Tributary of : 33O01 OWENDUFF (BLACKSOD) OS Catchment No: 106  
 OS Grid Ref of Confluence: F 832 144  
 Date(s) Surveyed: 4/9/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1990	1994	1997	1999	2002	2005	2008
0100	4	4	4	4-5	4-5	4	4

**Assessment:** Satisfactory. The Tarsaghaunmore showed little change in comparison with the 2005 survey.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Just u/s Owenduff River	83222	314369	22	MO

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	21	38	99	1	0	0	87	0	2	0	10

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

**WRBD: HYDROMETRIC AREA NO. 33**

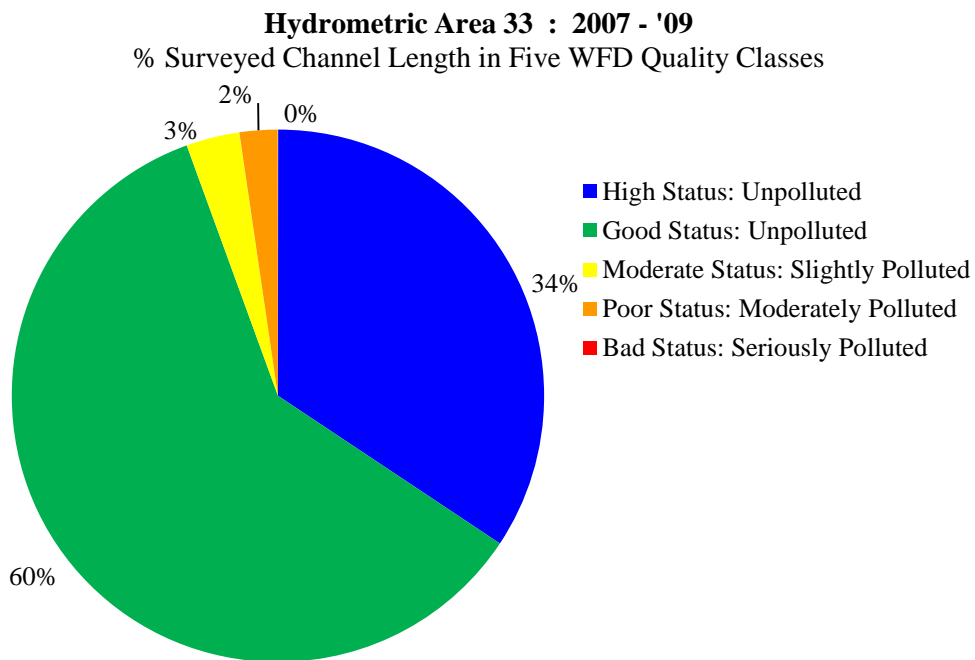
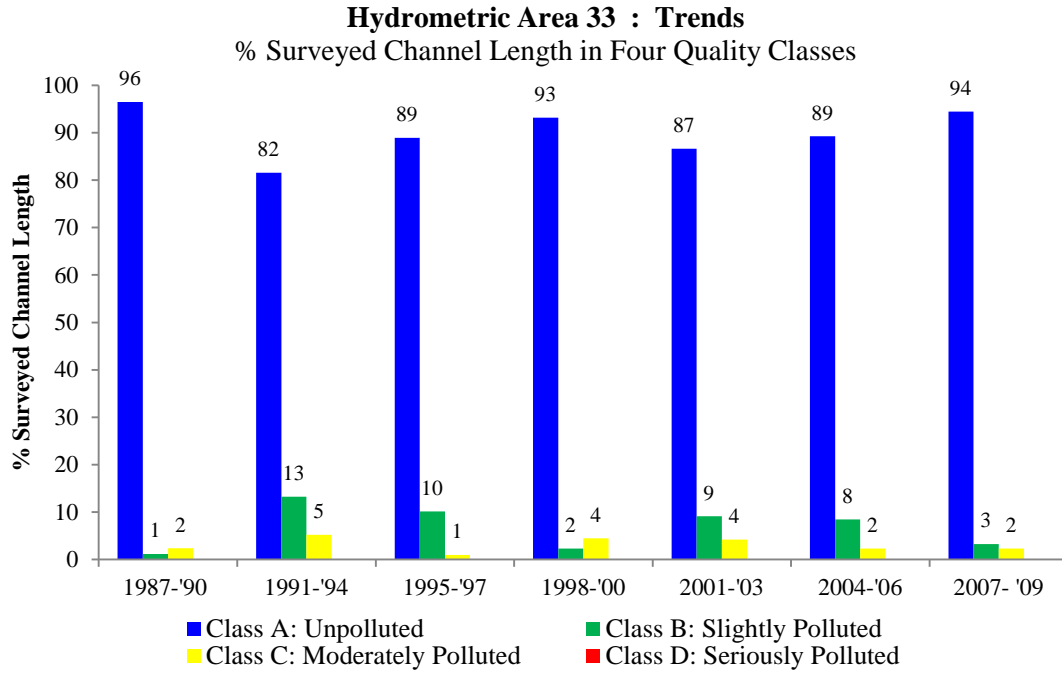
The baseline rivers showing the channel length surveyed (km) and the estimated channel length in four biological quality classes: A - Unpolluted, B - Slightly polluted/eutrophic, C - Moderately polluted and D - Seriously polluted. Data from biological surveys in period 2007-2009.

Channel Length (km) in Class			A	A	B	C	D	Total
WFD Quality Class			High	Good	Moderate	Poor	Bad	
River Name	Year	Code						
Altnabrocky	2008	33A02	0.0	11.0	0.0	0.0	0.0	11.0
Ballinglen	2008	33B01	9.5	1.5	0.0	0.0	0.0	11.0
Barroosky	2008	33B08	1.0	0.0	0.0	0.0	0.0	1.0
Belderg	2008	33B02	0.0	6.0	0.0	0.0	0.0	6.0
Bellagarvaun	2008	33B04	0.0	1.0	0.0	0.0	0.0	1.0
Bellanaboy	2008	33B07	0.0	7.0	0.0	0.0	0.0	7.0
Bunanioo	2008	33B09	3.0	0.0	0.0	0.0	0.0	3.0
Cartron	2008	33C02	0.0	3.5	0.0	0.0	0.0	3.5
Cloonalaghan	2008	33C01	0.0	8.0	0.0	0.0	0.0	8.0
Clooneen (Mayo)	2008	33C03	0.0	0.0	0.0	3.0	0.0	3.0
Dooga	2008	33D01	0.0	0.0	0.0	1.0	0.0	1.0
Doolough Stream	2008	33D02	0.0	0.0	0.0	1.0	0.0	1.0
Glenamoy	2008	33G01	13.5	2.5	0.0	0.0	0.0	16.0
Glencastle	2008	33G08	0.0	6.0	0.0	0.0	0.0	6.0
Glencullin (North Mayo)	2008	33G02	0.0	5.0	0.0	0.0	0.0	5.0
Glencullin (West Mayo)	2008	33G03	0.0	9.0	0.0	0.0	0.0	9.0
Glenglassera	2008	33G05	3.0	0.0	0.0	0.0	0.0	3.0
Gortmore Stream (Mayo)	2008	33G04	0.0	7.0	0.0	0.0	0.0	7.0
Gweedaney	2008	33G06	0.0	0.0	3.0	0.0	0.0	3.0
Keerglen	2008	33K01	5.0	0.0	0.0	0.0	0.0	5.0
Muing	2008	33M01	0.0	0.0	4.0	0.0	0.0	4.0
Muingnabo	2008	33M02	0.0	9.0	0.0	0.0	0.0	9.0
Munhin	2008	33M03	0.0	3.5	0.0	0.0	0.0	3.5
Owenduff (Blacksod)	2008	33O01	0.0	25.5	0.0	0.0	0.0	25.5
Owenmore (Mayo)	2008	33O04	33.0	9.0	0.0	0.0	0.0	42.0
Sheskin Stream	2008	33S03	6.0	0.0	0.0	0.0	0.0	6.0
Srahduggan Stream	2008	33S05	0.0	5.0	0.0	0.0	0.0	5.0
Tarsaghaunmore	2008	33T01	0.0	10.0	0.0	0.0	0.0	10.0
Total Length (km) surveyed this cycle	2008		74.0	129.5	7.0	5.0	0.0	215.5
Adjustments (km) (See below)*			0.0	0.0	0.0	0.0	0.0	0.0
<i>Percentages</i>			34.3	60.1	3.2	2.3	0.0	100.0
<b>Channel Length (km) in Class</b>			<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>Total</b>	
Baseline : Current Adjusted Status (km)	2007 - '09		203.5	7.0	5.0	0.0	215.5	
<i>Percentages</i>			94.4	3.2	2.3	0.0	100.0	
Baseline: Previous Unadjusted Status (km)**	2004 - '06		190.5	18.0	7.0	0.0	215.5	
<i>Percentages</i>			89.2	8.4	2.3	0.0	100.0	
Changes since Previous Survey (km )			13.0	-11.0	-2.0	0.0	0.0	

\*Adjustments: Deduct the 'extras' (+), add the 'shortages' (-).

\*\* Clabby *et al.*, 2008

<sup>1</sup> Rivers not previously included in the National Statistics.



<b>HYDROMETRIC AREA 37 (Donegal Bay North)</b>	
BALLAGHDOO	37B01
BALLINTRA	37B02
BRIDGETOWN (DONEGAL)	37B03
CLOGHANMORE	37C05
CLOGHER (DONEGAL)	37C06
CORABBER	37C01
CROW	37C03
CROWANRUDDA (BALLAGHDOO)	37C09
CUNLIN LOUGH STREAM	37C08
DRUMMENY	37D01
EANYBEG WATER	37E01
EANYMORE WATER	37E02
EGLISH	37E04
ESKE	37E05
FINTRAGH	37F01
GLEN (CARRICK)	37G01
GLENADDRAGH	37G02
LAGHY STREAM	37L02
LOUGHADEERY	37L03
LOWERYMORE	37L01
OILY	37O01
OWENTESKINY	37O02
OWENWEE (CARRICK)	37O03
ROECHROW	37R01
STRAGAR	37S02
TULLINTEANE	37T01



River and Code : **BALLAGHDOO**

**37/B/01**

Tributary of : 37G02 GLENADDRAGH

OS Catchment No: 53

OS Grid Ref of Confluence: G 616 761

Date(s) Surveyed: 22/8/2008, 27/8/2008, 27/9/2008

Station Nos.							Biological Quality Ratings (Q Values)				
	1973	1980	1984	1986	1990	1994	1997	1999	2002	2005	2008
0025	-	-	-	-	-	-	-	-	-	-	3-4
0050	-	-	-	-	-	-	-	-	-	-	2/0
0075	-	-	-	-	-	-	-	-	-	-	3
0100	5	4	5	5	4-5	-	-	4-5	-	-	2-3
0200	-	-	1/0	4-5	4-5	1/0	4	3/0	4	3	2-3

**Assessment:** A major drop in water quality was noted in the Ballaghdoe in August 2008. New sites were added upstream of Kilcar in an attempt to find the source of the problem, including the Crowanrudda tributary (q.v.). Faunal diversity had declined very seriously with only three taxa found at Station 0050 where the problem appeared to be at its most severe. The precise cause of the decline in water quality was not found. Additional investigation is required. The decline may be linked to a similar decline in water quality in the Glenaddragh (q.v.) and to a lesser extent in the Crow (q.v.). These rivers contrast significantly with other nearby rivers such as the Fintragh (q.v.) which remains at high status.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0025	Br. SW Crowanrudda	164295	380570	10	DL
0050	Br WNW Meenychanon	163162	379485	10	DL
0075	WNW Ballymoon	162405	378640	10	DL
0100	Cashling's Bridge	161707	377569	10	DL
0200	Bridge in Kilcar	161590	376065	10	DL

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	43	16	100	0	23	7	61	0	0	0	9
0200	10	38	100	0	14	14	60	0	3	0	10

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BALLINTRA**  
 Tributary of : Sea - Donegal Bay  
 OS Grid Ref of Confluence: G 904 726  
 Date(s) Surveyed: 19/8/2008, 26/8/2008

37/B/02

OS Catchment No: 60

Station Nos.	Biological Quality Ratings (Q Values)								
	1973	1986	1990	1994	1997	1999	2002	2005	2008
0007	-	-	-	4-5	5	4-5	4	4	4
0010	-	5	4-5	-	-	-	-	-	-
0050	-	4-5	4	5	4-5	4-5	4	3-4	-
0060	-	-	5	-	-	-	-	-	-
0100	5	5	5	-	-	-	-	-	-
0200	5	4	4	4-5	3	4	4	3	3

**Assessment:** The upper site (0007) surveyed was in satisfactory condition in 2008 but the lower site was again moderately polluted or of poor status.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0007	Br NW L. Garlagh More	198496	369619	17	DL
0010	Bridge u/s Rath Lough	197289	368872	17	DL
0050	Mallanamuckly Br	195272	369747	17	DL
0060	Br SW of Ballintooy	193892	370280	17	DL
0100	Aghadullagh Bridge	192430	369627	17	DL
0200	Connor's Bridge	190817	369756	17	DL

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0007	98	4	100	0	0	12	71	0	4	0	13
0050	71	33	91	9	8	9	61	0	4	1	17
0200	20	44	72	28	19	9	47	0	8	1	15

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BRIDGETOWN (DONEGAL)**

**37/B/03**

Tributary of : 37B02 BALLINTRA

OS Catchment No: 60

OS Grid Ref of Confluence: G 904 726

Date(s) Surveyed: 19/8/2008

Station Nos.	Biological Quality Ratings (Q Values)									
	1973	1980	1986	1990	1994	1997	1999	2002	2005	2008
0010	-	5	5	4	4	4	4	-	-	-
0030	-	-	-	-	-	-	-	4-5	4-5	4-5
0050	5	4-5	4-5	4-5	-	-	-	-	-	-
0080	-	-	-	-	4-5	-	-	-	-	-
0090	-	-	-	-	-	4	4-5	4-5	4-5	-
0100	5	5	5	4-5	-	-	-	-	-	-
0200	5	5	5	4	4	4-5	4	4-5	4-5	4

**Assessment:** Satisfactory at both sites surveyed in August 2008.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0010	Bridge W. of Lough Nadarragh	199667	370898	11	DL
0030	Br W L Naboy	197925	370530	11	DL
0050	Shannagh Bridge	196808	371269	11	DL
0080	Rath Bridge	194869	370876	11	DL
0090	0.5km d/s Rath Br	194439	370769	11	DL
0100	Br ENE Brown Hill	194000	370800	11	DL
0200	Br E Ballybulgan	191871	371614	11	DL

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0010	118	11	100	0	0	35	48	0	8	6	3
0090	66	23	86	14	3	17	55	0	22	3	1
0200	10	32	68	32	15	13	47	0	23	2	1

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CLOGHANMORE**

**37/C/05**

Tributary of : Sea - Malin Bay

OS Catchment No: h6

OS Grid Ref of Confluence: G 495 826

Date(s) Surveyed: 21/8/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1990	1994	1997	1999	2002	2005	2008
0200	4-5	4	4-5	4-5	4	3	3

**Assessment:** The Cloghanmore continued unsatisfactory in 2008 with a lack of any sensitive invertebrate species which prior to 2005 had always been found at the site sampled.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Bridge u/s Malin Bay	149835	382702	10	DL

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	16	8	100	0	9	0	91	0	0	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CLOGHER (DONEGAL)**

**37/C/06**

Tributary of : 37L01 LOWERYMORE

OS Catchment No: 58

OS Grid Ref of Confluence: G 979 820

Date(s) Surveyed: 20/8/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1990	1994	1997	1999	2002	2005	2008
0200	5	-	-	-	-	-	-
0400	5	4-5	4-5	4	4-5	4-5	3-4

**Assessment:** A disappointing decline in water quality was noted in the Clogher in 2008. Siltation had been noted in 2005 as in 2008. The site is located downstream of a new section of the N15 bypass road and this may be responsible for the increased siltation observed. Nonetheless pollution-sensitive taxa were found at Station 0400 in August 2005 when the road was under construction but these were no longer present in August 2008.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Clogher Bridge	199209	381211	11	DL
0400	Br 400 m u/s Lowerymore River	197803	381694	11	DL

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0400	37	8	72	28	11	0	57	0	32	0	0

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CORABBER**  
 Tributary of : Lough Eske  
 OS Grid Ref of Confluence: G 974 858  
 Date(s) Surveyed: 20/8/2008

**37/C/01**  
 OS Catchment No: 58

Station Nos.	Biological Quality Ratings (Q Values)						
	1990	1994	1997	1999	2002	2005	2008
0100	4-5	4-5	5	4-5	4-5	4	4-5

**Assessment:** Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge u/s Lough Eske	197506	386218	11	DL

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	32	18	96	4	3	2	90	0	0	2	3

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CROW** **37/C/03**  
 Tributary of : 37G01 GLEN (CARRICK) OS Catchment No: 52  
 OS Grid Ref of Confluence: G 612 842  
 Date(s) Surveyed: 21/8/2008, 22/8/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1990	1994	1997	1999	2002	2005	2008
0200	-	3-4	3-4	3-4	3	4	4*
0700	4-5	4-5	4-5	4	4	4-5	4

**Assessment:** A significant landslide occurred in the upper catchment of the Crow River (on Crocknapeast) following heavy rain in mid August 2008. Significant quantities of silt and debris were noted on the river bank at Station 0200. A lower than expected number of taxa was recorded but nonetheless some pollution-sensitive macroinvertebrate species were noted. The impact was less than that observed in some neighbouring rivers such as the Glenaddragh, Roechrow or the Arigna and Owengar Rivers in the Shannon catchment where the macroinvertebrate fauna was effectively wiped out by bog slides that occurred following the same heavy summer rainfall event. The lower section of the Crow (Station 0700) was in satisfactory condition albeit still some minor impacts from the landslide notable and a low number of taxa was noted there too.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	S of Crove	166012	384286	10	DL
0700	Just u/s Glen River confl	161179	384033	10	DL

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	153	9	100	0	0	0	94	0	6	0	0
0700	54	22	100	0	0	0	89	0	6	0	5

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

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River and Code : **CROWANRUDDA (BALLAGHDOO)** **37/C/09**  
 Tributary of : BALLAGHDOO OS Catchment No:  
 OS Grid Ref of Confluence:  
 Date(s) Surveyed: 27/8/2008

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Biological Quality Ratings (Q Values)

<b>Station Nos.</b>		<b>2008</b>
0200		3

**Assessment:** The Crowanrudda is a tributary of the upper Ballaghdoe River (q.v.) which was found to be seriously polluted in August 2008 and potentially suffering from toxicity that eliminated the vast majority of the expected macroinvertebrate fauna. The Crowanrudda lacked sensitive taxa but had a reasonable abundance and range of taxa typical of a moderately polluted site and was not obviously affected by toxic influences at the time of sampling. The upper catchment is extensively afforested and sheep farming is the main other land use here.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	0.1km u/s confluence with Ballaghdoe River	164235	380650	10	



River and Code : **CUNLIN LOUGH STREAM**

**37/C/08**

Tributary of : Sea - Killybegs Harbour

OS Catchment No: 54

OS Grid Ref of Confluence: G 724 782

Date(s) Surveyed: 29/8/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1990	1994	1997	1999	2002	2005	2008
0100	-	4	4-5	4-5	-	-	-
0400	5	4	4-5	4-5	4-5	4-5	4

**Assessment:** Satisfactory although a decline in quality was noted in the Cunlin Lough Stream from high ecological status to good status.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Just d/s trib from L. Aroshin	170486	380441	10	DL
0400	The Commons Bridge	172359	378464	10	DL

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0400	21	4	100	0	0	5	69	0	26	0	0

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DRUMMENY**  
 Tributary of : 37E05 ESKE  
 OS Grid Ref of Confluence: G 937 788  
 Date(s) Surveyed: 20/8/2008

**37/D/01**  
 OS Catchment No: 58

Station Nos.	Biological Quality Ratings (Q Values)						
	1990	1994	1997	1999	2002	2005	2008
0300	5	4-5	4-5	4-5	4-5	4	-
0400	4	3-4	4	4-5	3-4	4	4

**Assessment:** Satisfactory. The improvement noted in quality in the Drummenny in 2005 was maintained in 2008.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Drummenny Bridge	196819	378952	11	DL
0400	Bridge u/s Eske River confl	193768	378612	11	DL

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	47	11	57	43	36	9	49	0	0	0	6
0400	9	16	43	57	51	6	37	2	0	0	4

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **EANYBEG WATER**

**37/E/01**

Tributary of : 37E03 EANY WATER

OS Catchment No: 57

OS Grid Ref of Confluence: G 842 816

Date(s) Surveyed: 26/8/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1990	1994	1997	1999	2002	2005	2008
0200	5	4	5	4-5	4-5	4	-
0500	4-5	-	-	-	-	-	-
0700	4-5	4-5	4	4-5	4	4	3-4

**Assessment:** The lower Eanybeg was slightly polluted when surveyed in August 2008. Forestry is the main pressure in the catchment.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Bridge E. of Cloghvin	188106	386949	11	DL
0500	Bridge S.E. of Camlargy L	186907	384352	11	DL
0700	Eanybeg Bridge	184559	382183	11	DL

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	115	12	89	11	0	0	49	0	0	0	51
0700	22	40	33	67	0	1	66	0	8	0	25

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **EANYMORE WATER**

**37/E/02**

Tributary of : 37E03 EANY WATER

OS Catchment No: 57

OS Grid Ref of Confluence: G 842 816

Date(s) Surveyed: 20/8/2008

Station Nos.							Biological Quality Ratings (Q Values)				
	1973	1980	1984	1986	1990	1994	1997	1999	2002	2005	2008
0050	-	5	5	5	5	4-5	4-5	4-5	4-5	4	4
0100	-	5	5	5	-	-	-	-	-	-	-
0150	-	-	-	-	5	4-5	4-5	5	5	3	-
0200	-	5	5	5	-	-	-	-	-	-	-
0250	4-5	-	-	-	5	5	4-5	5	4	4	-

**Assessment:** The upper Eanymore water (Station 0050) showed no change on 2005. Unfortunately the lower section of the river was not surveyed in 2008 due to weather conditions.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Br S Meenawilderg	191060	385200	11	DL
0100	Drumboarty Br	190130	383225	11	DL
0150	Letterbarra Bridge	188289	382363	11	DL
0200	Drumagraa Br	186315	382234	11	DL
0250	Eanymore Bridge	184486	381543	11	DL

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	87	16	64	36	1	0	76	0	0	0	23
0150	58	43	35	65	1	8	63	0	12	0	16
0250	21	52	29	71	2	7	57	0	18	0	15

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **ENGLISH** **37/E/04**  
 Tributary of : 37E02 EANYMORE WATER OS Catchment No: 57  
 OS Grid Ref of Confluence: G 910 852  
 Date(s) Surveyed: 20/8/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1990	1994	1997	1999	2002	2005	2008
0100	5	4	5	4	4-5	4	4-5
0200	4-5	-	-	-	-	-	-

**Assessment:** The Eglisch had improved in quality since the 2005 survey and was of high status when sampled in August 2008.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge at Meenataggart	192548	386018	11	DL
0200	Just u/s Sruell River confl	191085	385105	11	DL

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	140	10	52	48	0	20	66	0	0	0	14

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **ESKE**  
 Tributary of : Sea - Donegal Bay  
 OS Grid Ref of Confluence: G 929 785  
 Date(s) Surveyed: 26/8/2008

**37/E/05**

OS Catchment No: 58

Station Nos.	Biological Quality Ratings (Q Values)									
	1973	1982	1986	1990	1994	1997	1999	2002	2005	2008
0100	-	4	4	4-5	-	-	-	-	-	-
0200	5	4-5	4	4	4-5	4-5	4-5	4-5	4	4
0310	5	4-5	-	4-5	-	-	-	-	-	-
0400	-	4-5	4-5	4	4	4	3-4	3-4*	n/a	3-4

**Assessment:** The upper Eske River downstream of Lough Eske (0100) was in satisfactory condition when sampled in August 2008. Deterioration in quality was noted in the lower section in Donegal Town where moderate status was recorded. Extensive algal growths were noted with some of this being Enteromorpha indicating proximity to brackish water. A strong smell of oil was noted just upstream of the bridge on the right hand side of the river where a drainage pipe discharges to the river.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge d/s Lough Eske	196919	382078	11	DL
0200	Thrushbank Bridge	195573	380905	11	DL
0310	Donegal: 1 km u/s East Br (RHS)	193826	379219	11	DL
0400	East Bridge- Donegal Town	193047	378532	11	DL

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	15	90	74	26	11	6	60	0	13	5	4
0400	6	114	64	36	22	6	53	1	11	4	4

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **FINTRAGH**  
 Tributary of : Sea - Fintragh Bay  
 OS Grid Ref of Confluence: G 691 766  
 Date(s) Surveyed: 28/8/2008

**37/F/01**  
 OS Catchment No: g6

Station Nos.	Biological Quality Ratings (Q Values)						
	1990	1994	1997	1999	2002	2005	2008
0100	5	4-5	5	4-5	4-5	4-5	4-5

**Assessment:** The Fintragh retained its high status in August 2008. This represents a contrast to neighbouring rivers Glenaddragh (q.v.) and Ballaghdoe (q.v.) both of which suffered a significant loss in quality following flood events in August 2008. It is believed that poor land use practices in the latter catchments made these rivers very vulnerable in the event of significant flood events. The Fintragh in a sense acted as a control demonstrating that the flooding of itself is not sufficient to cause the kind of damage seen in the neighbouring rivers.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge W. of Corrin Lodge	169353	376874	10	DL

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	23	8	100	0	6	0	90	0	2	0	3

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **GLEN (CARRICK)**

**37/G/01**

Tributary of : Sea - Tawny Bay

OS Catchment No: 52

OS Grid Ref of Confluence: G 585 780

Date(s) Surveyed: 21/8/2008, 22/8/2008

Station Nos.	Biological Quality Ratings (Q Values)											
	1971	1973	1977	1980	1986	1990	1994	1997	1999	2002	2005	2008
0010	-	-	-	-	-	-	-	-	-	4	-	-
0040	-	-	-	-	-	5	-	-	-	-	-	-
0045	-	-	-	-	-	-	4-5	4-5	4-5	-	3	4
0050	5	5	5	4-5	5	5	-	-	-	-	-	-
0070	-	-	-	-	-	4-5	3-4	4-5	3	3-4*	3	4
0100	-	5	-	5	5	4-5	-	-	-	-	-	-
0200	5	5	4	4	5	4	4-5	4-5	4	4	3	4
0210	-	-	-	-	-	-	-	-	-	3-4	-	-

**Assessment:** A significant improvement was noted in the water quality of the River Glen (Carrick) in comparison with the September 2005 survey.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0010	Br WNW Largybrack	160440	388440	0	
0040	Bridge S.E. of Stranagartan	160841	386793	10	DL
0045	500 m u/s Owenteskinny R confl	161102	385157	10	DL
0050	Bridge u/s Crow River confl	161237	384291	10	DL
0070	E. of Croaghstraleel (roadside)	160450	382389	10	DL
0100	1.9 km u/s Carrick Bridge	159815	380398	10	DL
0200	0.5 km d/s Carrick Bridge (LHS) .	158944	378712	10	DL
0210	0.5 km d/s Carrick Bridge (RHS)	158944	378709	10	

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0045	75	17	98	2	8	0	69	0	1	0	23
0070	41	72	100	0	2	1	83	0	5	1	9
0200	14	87	100	0	2	1	83	0	7	1	7

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.



River and Code : **GLENADDRAUGH**

**37/G/02**

Tributary of : Sea - Tawny Bay

OS Catchment No: 53

OS Grid Ref of Confluence: G 610 755

Date(s) Surveyed: 22/8/2008, 27/8/2008

Station Nos.	Biological Quality Ratings (Q Values)										
	1973	1980	1984	1986	1990	1994	1997	1999	2002	2005	2008
0100	5	5	5	5	5	5	5	4-5	4-5	4	3-4/0
0150	5	5	5	5	4-5	-	-	-	-	-	3
0190	-	-	4	-	5	4-5	-	-	-	-	3/0
0195	-	-	-	-	-	-	-	-	4	3	3/0
0200	-	3	1/0	4	4-5	3/0	4	3/0	-	-	-

**Assessment:** Water quality was poor in the Glenaddragh. The number of species recorded dropped to half of that seen in 2005 (Station 0100) and sensitive taxa were almost eliminated. The middle reaches lacked pollution sensitive species and the river was unusually turbid. The lower two stations (0190, 0195) both showed signs of toxicity. Forestry, clear-felling and new planting and sheep dip usage are all potential contributors to the problems observed. Siltation from road works adjacent to the river and siltation arising from a number of large cleared sites with bare soil are also implicated. The major flood of mid August 2008 may have aggravated these further by flushing silt and other pollutants into the river.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge S.W. of Meenboy	164781	377014	10	DL
0150	Bridge 1.5 km E. of Kilcar (upstream)	162875	375990	0	DL
0190	75 m u/s Ballaghdoe River	161679	376071	10	DL
0195	0.3km d.s Ballaghdoe R Confl	161500	375981	0	DL
0200	0.5 km d/s Ballaghdoe River confl	161383	375818	10	DL

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	120	12	100	0	0	34	50	0	5	0	11
0200	8	38	100	0	14	14	59	0	3	0	10

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **LAGHY STREAM**

**37/L/02**

Tributary of : Sea - Donegal Bay

OS Catchment No: 59

OS Grid Ref of Confluence: G 925 779

Date(s) Surveyed: 19/8/2008, 26/8/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1990	1994	1997	1999	2002	2005	2008
0100	-	4	4-5	4-5	4	4	-
0300	4	-	-	-	4	4-5	4
0400	4	4-5	-	4	-	-	-
0600	5	-	4	-	4-5	4	3-4/0

**Assessment:** An overall decline in quality was noted. The upper station (0300) was of good status but the lower station (0600) had lost a large number of species previously recorded here. A smell of diesel was noted when sampling the river so an oil leak is a potential cause of the problems noted here - perhaps aggravated by the flood event that occurred shortly before the sampling date.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Main Road Br at Laghy Barr	198731	374768	11	DL
0300	Raneany Bridge	195596	374874	0	DL
0400	Bridge in Laghy	194471	374475	11	DL
0600	0.2km d/s Bridge on N15	193988	374965	11	DL

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	117	6	100	0	0	7	65	0	27	0	1
0600	10	38	60	40	30	4	45	1	16	0	3

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **LOUGHADEERY**

**37/L/03**

Tributary of : 37S02 STRAGAR

OS Catchment No: 54

OS Grid Ref of Confluence: G 729 804

Date(s) Surveyed: 29/8/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1990	1994	1997	1999	2002	2005	2008
0100	-	4	4-5	4-5	-	4	-
0300	5	-	-	-	3-4*	3-4	4

**Assessment:** Satisfactory with an improvement noted in comparison with 2005.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Just d/s trib from L. Aroshin	170486	380441	10	DL
0300	Bungosteen Bridge	172975	380610	10	DL

River and Code : **LOWERYMORE**

**37/L/01**

Tributary of : Lough Eske

OS Catchment No: 58

OS Grid Ref of Confluence: G 978 822

Date(s) Surveyed: 20/8/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1990	1994	1997	1999	2002	2005	2008
0100	4	4	4-5	4	4-5	4	4
0300	3-4	4-5	5	-	4-5	4-5	-
0400	5	5	5	4	4-5	4-5	4

**Assessment:** Both sites surveyed were satisfactory in August 2008.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Barnes Bridge	203978	387023	11	DL
0300	Keadew Bridge	201230	383890	11	DL
0400	Bridge u/s Lough Eske	198016	381985	11	DL

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	128	11	100	0	0	1	96	0	0	0	3
0300	82	22	100	0	0	4	89	0	3	0	4
0400	32	31	100	0	3	3	80	0	11	0	3

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **OILY**

**37/O/01**

Tributary of : Sea - McSwyne's Bay

OS Catchment No: 55

OS Grid Ref of Confluence: G 744 765

Date(s) Surveyed: 28/8/2008

Station Nos.	Biological Quality Ratings (Q Values)									
	1973	1980	1986	1990	1994	1997	1999	2002	2005	2008
0020	-	-	-	5	4	4-5	-	4	4-5	5
0050	-	5	5	5	5	5	4-5	4-5	4-5	4-5
0100	5	5	5	4-5	-	-	-	-	-	-
0200	5	5	4-5	4-5	4-5	4-5	3/0	4-5	4	4

**Assessment:** Satisfactory. The upper Oily (Stations 0020 and 0050) was of high status in late August 2008. The lower site (0200) was of good ecological status.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0020	Bridge d/s Tamur Lough	180011	385073	11	DL
0050	Ford SW of Corker Beg	176130	382666	10	DL
0100	Multin's Bridge	175150	380440	10	DL
0200	Milltown Bridge	174790	377338	10	DL

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0020	130	6	72	28	0	0	57	0	0	0	43
0050	58	26	90	10	0	11	69	0	2	1	17
0200	10	47	83	17	0	10	64	0	13	1	12

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **OWENTESKINY**  
 Tributary of : 37G01 GLEN (CARRICK)  
 OS Grid Ref of Confluence: G 612 848  
 Date(s) Surveyed: 21/8/2008

**37/O/02**  
 OS Catchment No: 52

Station Nos.	Biological Quality Ratings (Q Values)						
	1990	1994	1997	1999	2002	2005	2008
0300	4	4-5	4	4	3-4	4-5	4-5
0400	4-5	4-5	4-5	4	4	4	-
0500	4-5	4	4	4-5	5	-	-
0600	-	-	-	-	-	-	4-5

**Assessment:** Both sites surveyed on the Owenteskiny in August 2008 were of high status.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	S. of Durlough (roadside)	166513	386721	10	DL
0400	E. of Lergynasearhagh	164162	386517	10	DL
0500	Ford u/s Glen River confl	162591	385504	10	DL
0600	1 km u/s confl with Glen River	161870	385355	10	DL

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	181	5	100	0	0	0	100	0	0	0	0
0400	127	13	100	0	0	0	91	0	0	4	4
0500	95	18	100	0	0	5	83	0	2	3	6

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **OWENWEE (CARRICK)**

**37/O/03**

Tributary of : 37G01 GLEN (CARRICK)

OS Catchment No: 52

OS Grid Ref of Confluence: G 584 783

Date(s) Surveyed: 21/8/2008

Station Nos.	Biological Quality Ratings (Q Values)						
	1990	1994	1997	1999	2002	2005	2008
0200	4	-	-	-	-	-	-
0400	4-5	4	5	5	5	4	-
0500	4-5	5	4-5	4-5	4-5	4	4

**Assessment:** Satisfactory - no change.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Bridge d/s Lough Unna	156427	380959	10	DL
0400	S. of Lough Unna	156787	380248	10	DL
0500	Carrick Lower Bridge	158423	378270	10	DL

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0400	84	20	98	2	0	0	89	0	3	3	5
0500	0	24	99	1	4	0	88	0	2	2	4

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **ROECHROW**  
 Tributary of : 37S02 STRAGAR  
 OS Grid Ref of Confluence: G 741 825  
 Date(s) Surveyed: 29/8/2008

**37/R/01**  
 OS Catchment No: 54

Station Nos.	Biological Quality Ratings (Q Values)						
	1990	1994	1997	1999	2002	2005	2008
0100	-	-	-	-	-	2/0	2/0
0200	4-5	5	4-5	4-5	3-4	2/0	3

**Assessment:** The upper Roechrow (Station 0100) was again severely impacted when surveyed in early August 2008. A number of issues were identified that may be implicated - road building, new forestry plantations, clear-felling, clearance of building sites - leaving bare peat exposed on the hillside (~160m altitude), and dumping of subsoil along the river bank. The river lacked a normal invertebrate fauna at this station with just three taxa recorded - this is a most unusual occurrence in Irish rivers. A recovery to just poor status was noted in the lower section (Station 0200) upstream of its confluence with the Stragar (q.v.).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	N Br SSW Meenateia	171076	384276	10	DL
0200	Br u/s Stragar R. confl.	173665	383090	10	DL

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	90	7	100	0	0	23	65	0	5	0	7

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.



River and Code : **STRAGAR**

**37/S/02**

Tributary of :

OS Catchment No: 54

OS Grid Ref of Confluence: G 728 780

Date(s) Surveyed: 29/8/2008, 29/9/2008

Station Nos.	Biological Quality Ratings (Q Values)								
	1973	1985	1990	1994	1997	1999	2002	2005	2008
0100	5	5	5	4	4-5	4-5	4	3-4	4-5
0180	-	-	-	-	-	-	3	3	4
0200	5	4	5	5	-	-	-	-	-
0300	-	-	-	-	4-5	4-5	-	3	4
0400	-	-	-	-	-	-	-	-	-

**Assessment:** A significant improvement was noted along the length of the Stragar in 2008 with all three sites surveyed now in satisfactory condition.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Meentullynagarn Br	174211	382791	10	DL
0180	E Faiafannan	172765	379440	0	DL
0200	Br W Five Points	172910	379005	10	DL
0300	Br SW of Tullagha	172945	378576	10	DL
0400	Br u/s Killybegs Harbour	172940	378145	10	DL

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	83	10	100	0	0	7	67	0	7	0	19
0300	9	36	100	0	0	11	66	0	14	1	8

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **TULLINTEANE**  
 Tributary of : 37O01 OILY  
 OS Grid Ref of Confluence: G 760 826  
 Date(s) Surveyed: 28/8/2008

**37/T/01**  
 OS Catchment No: 55

Station Nos.	Biological Quality Ratings (Q Values)						
	1990	1994	1997	1999	2002	2005	2008
0200	4	-	-	-	-	-	-
0300	-	-	-	4	-	-	-
0400	4-5	4-5	4	2/0	2/0	4	4-5

**Assessment:** A further improvement was noted in the Tullinteane in comparison with 2005. The toxic impacts noted in 2002 and 1999 are no longer evident.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Bridge E. of Mulmusog	176484	386029	10	DL
0300	Bridge W of Corkermore Hill	176203	384192	10	DL
0400	Just u/s Oily River confl	176072	382714	10	DL

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	88	7	100	0	0	22	67	0	5	0	6
0400	57	7	100	0	0	19	67	0	8	0	6

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

**NWIRBD: HYDROMETRIC AREA NO. 37**

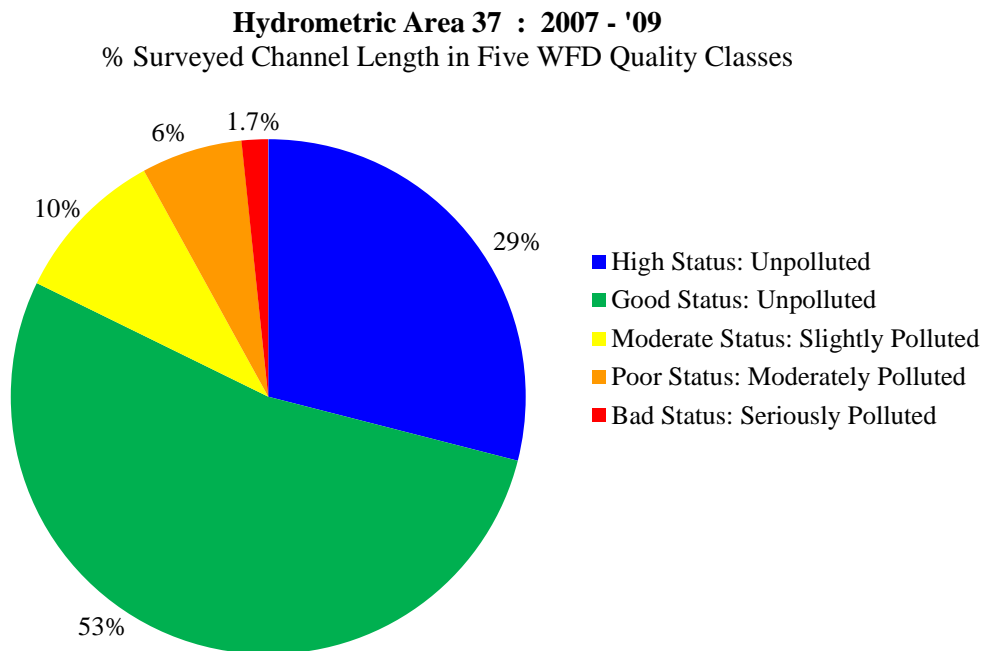
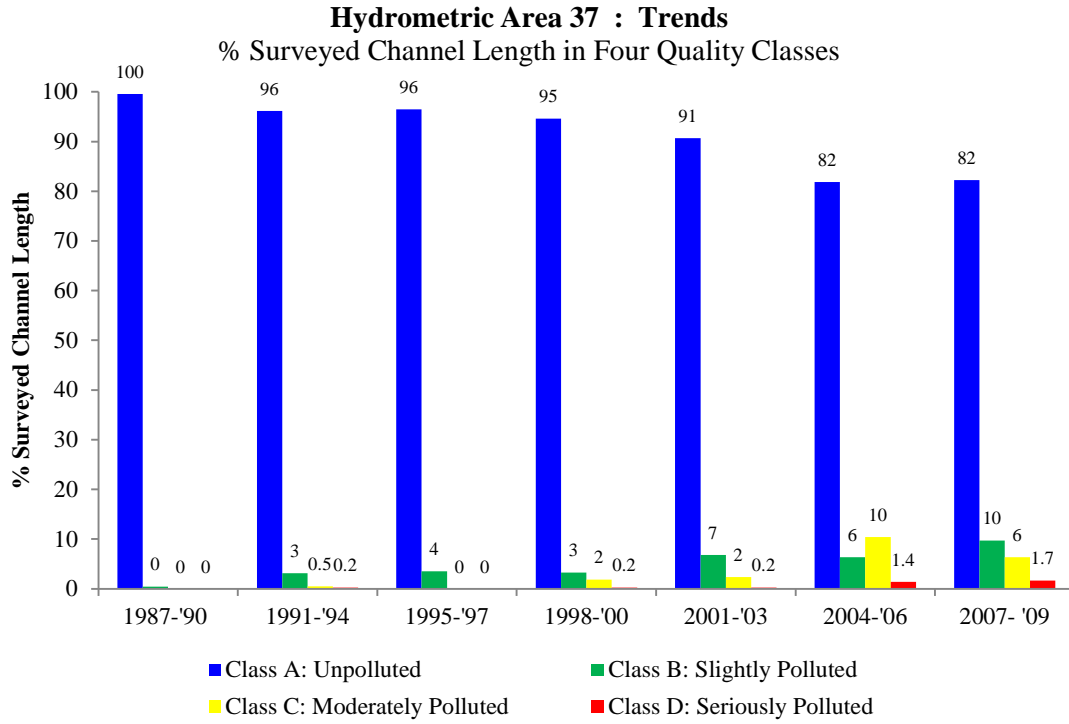
The baseline rivers showing the channel length surveyed (km) and the estimated channel length in four biological quality classes: A - Unpolluted, B - Slightly polluted/eutrophic, C - Moderately polluted and D - Seriously polluted. Data from biological surveys in period 2007-2009.

Channel Length (km) in Class			A	A	B	C	D	Total
WFD Quality Class			High	Good	Moderate	Poor	Bad	
River Name	Year	Code						
Ballaghdoe	2008	37B01	0.0	0.0	1.2	3.3	1.6	6.0
Ballintra	2008	37B02	0.0	6.3	5.1	4.1	0.0	15.5
Bridgetown (Donegal)	2008	37B03	12.4	1.6	0.0	0.0	0.0	14.0
Cloghanmore	2008	37C05	0.0	0.0	0.0	2.0	0.0	2.0
Clogher (Donegal)	2008	37C06	0.0	0.0	3.0	0.0	0.0	3.0
Corabber	2008	37C01	3.5	0.0	0.0	0.0	0.0	3.5
Crow	2008	37C03	0.0	7.0	0.0	0.0	0.0	7.0
Cunlin Lough Stream	2008	37C08	0.0	4.5	0.0	0.0	0.0	4.5
Crowanrudda (Ballaghdoe)	2008	37C09	0.0	0.0	0.0	0.0	0.0	0.0
Drummenny	2008	37D01	0.0	10.0	0.0	0.0	0.0	10.0
Eanybeg Water	2008	37E01	0.0	13.0	1.0	0.0	0.0	14.0
Eanymore Water	2008	37E02	0.0	13.3	2.5	1.3	0.0	17.0
Eglish	2008	37E04	5.0	0.0	0.0	0.0	0.0	5.0
Eske	2008	37E05	0.0	6.0	0.0	0.0	0.0	6.0
Fintragh	2008	37F01	4.5	0.0	0.0	0.0	0.0	4.5
Glen (Carrick)	2008	37G01	0.0	13.0	0.0	0.0	0.0	13.0
Glenadragh	2008	37G02	0.0	0.0	7.0	2.0	0.0	9.0
Laghy Stream	2008	37L02	0.0	8.5	1.0	0.0	0.0	9.5
Loughaderry	2008	37L03	0.0	3.0	0.0	0.0	0.0	3.0
Lowerymore	2008	37L01	0.0	11.0	0.0	0.0	0.0	11.0
Oily	2008	37O01	15.0	1.0	0.0	0.0	0.0	16.0
Owenteskiny	2008	37O02	9.0	0.0	0.0	0.0	0.0	9.0
Owenwee (Carrick)	2008	37O03	0.0	4.5	0.0	0.0	0.0	4.5
Roechrow	2008	37R01	0.0	0.0	0.0	1.0	2.0	3.0
Stragar	2008	37S02	7.4	1.6	0.0	0.0	0.0	9.0
Tullinteane	2008	37T01	3.0	0.0	0.0	0.0	0.0	3.0
Total Length (km) surveyed this cycle	2008		59.8	104.3	20.8	13.6	3.6	202.0
Adjustments (km) (See below)*			-2.3	-9.8	0.0	0.0	0.0	-12.0
<i>Percentages</i>			29.0	53.3	9.7	6.4	1.7	100.0
<b>Channel Length (km) in Class</b>			<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>Total</b>	
Baseline : Current Adjusted Status (km)	2007 - '09		176.1	20.8	13.6	3.6	214.0	
<i>Percentages</i>			82.3	9.7	6.4	1.7	100.0	
Baseline: Previous Unadjusted Status (km)**	2004 - '06		175.5	13.5	22.0	3.0	214.0	
<i>Percentages</i>			82.0	6.3	10.3	1.4	100.0	
Changes since Previous Survey (km )			0.6	7.3	-8.4	0.6	0.0	

\*Adjustments: Deduct the 'extras' (+), add the 'shortages' (-).

\*\* Clabby *et al.*, 2008

<sup>1</sup> Rivers not previously included in the National Statistics.



**ADDITIONAL SURVEYS**

*Seriously Polluted and Investigative Sites*

**HYDROMETRIC AREA 06 (Ballymascanlan)**

BALLYMASCANLAN

06B02

River and Code : **BALLYMASCANLAN**

**06/B/02**

Tributary of : 06F02 FLURRY

OS Catchment No: 91

OS Grid Ref of Confluence: J 081 100

Date(s) Surveyed: 7/10/2008

Station Nos.	Biological Quality Ratings (Q Values)								
	1990	1991	1994	1997	2000	2003	2006	2007	2008
0100	2-3	-	3/0	4	3/0	2/0	2/0	2/0	2-3/0
0200	-	-	-	-	-	-	-	-	3
0300	4-5	-	-	-	3	-	-	-	-
0500	1-2	1	3	4	3	-	-	-	-

**Assessment:** Further improvement in ecological condition was noted at Jonesborough Bridge (0100) in 2008, however the impoverished macroinvertebrate fauna continue to indicate moderate pollution at the survey location.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Jonesborough Br	306465	314446	36	LH
0200	Br nr Carrickaneena House	306700	313600	36	LH
0300	New Br	307128	311816	29	LH
0500	Ballymascanlan Br	308085	310187	29	LH

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	58	0	100	0	40	0	0	60	0	0	0
0300	30	2	85	15	91	5	0	4	0	0	0
0500	6	4	54	46	87	3	0	8	2	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

**HYDROMETRIC AREA 07 (Boyne)**

BOYNE

07B04



River and Code : **BOYNE**  
 Tributary of :  
 OS Grid Ref of Confluence: O 091 751  
 Date(s) Surveyed: 7/10/2008

**07/B/04**  
 OS Catchment No: 159

Station Nos.	Biological Quality Ratings (Q Values)																	
	1971	1973	1974	1975	1977	1979	1981	1986	1990	1994	1997	2000	2003	2004	2005	2006	2007	2008
0100	4-5	-	-	-	-	-	3-4	4	4	-	3	3-4	3	-	-	-	-	-
0160	-	4-5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0200	2-3	3-4	-	3-4	3	4	4	4	3	4	2-3	3-4	3	-	-	4	-	-
0300	2-3	2-3	-	2	1-2	2-3	4	4	-	3	2	1-2	3	-	-	3-4	-	-
0400	4-5	3	-	-	4-5	4	4	4	4	4	3	3	4	-	-	4	-	-
0500	-	-	-	-	4-5	-	4	-	4	-	-	-	-	-	-	-	-	-
0600	4-5	-	4	-	4	4	4	4-5	4	4	3-4	3	3	-	-	3-4	-	-
0700	-	-	-	-	-	-	3-4	4	3-4	-	-	-	-	-	-	-	-	-
0800	4-5	-	3	-	-	4	4-5	4-5	4	4	3-4	3-4	4	-	-	4	-	-
0900	5	-	3-4	-	-	4-5	5	5	4	4	4	4	3-4	-	-	4	-	-
1000	5	-	4	-	-	4	5	5	3-4	3-4	4	3-4	4	-	-	4	-	-
1100	5	-	-	-	-	3-4	4	4	3-4	-	-	-	-	-	-	-	-	-
1200	-	-	4-5	-	-	-	4	4-5	3-4	3-4	4	3-4	3-4	-	-	4	-	-
1300	4-5	-	-	-	-	3-4	4	4	3-4	-	-	-	-	-	-	-	-	-
1400	-	-	4	-	-	3-4	3-4	4	3-4	3-4	3	3	3-4	-	-	4	-	-
1500	5	-	4-5	-	-	4-5	5	4	3-4	3-4	3-4	3-4	3-4	-	-	3-4	-	-
1600	-	-	-	-	-	-	4	4-5	3-4	3-4	3-4	3-4	3-4	-	-	-	-	-
1700	5	-	4	-	-	3-4	4	4-5	3-4	-	-	-	-	-	-	3-4	-	-
1800	-	-	-	-	-	4	4-5	4-5	3-4	3-4	3-4	3-4	3-4	-	-	-	-	-
1900	4	4	-	4	3-4	3	3-4	4	2-3	3	2-3	3-4	3-4	-	-	-	-	-
2000	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2010	-	-	-	-	-	-	-	4	3-4	3-4	3	3-4	3-4	-	-	3-4	-	-
2100	4-5	4-5	-	4	4	4	4-5	4	4	3-4	3	3-4	3-4	3-4	3-4	3-4	3-4	3-4
2150	-	-	-	-	-	-	-	-	4-5	3-4	3-4	4	3-4	-	-	3-4	-	-
2200	5	4-5	-	3-4	4	4	4	4	-	-	3-4	3-4	3-4	-	-	3-4	-	-

**Assessment:** The macroinvertebrate fauna at Slane Bridge (2100) continues to indicate unsatisfactory ecological conditions in 2008.

*Additional Surveys (2008)*

<b>Station No.</b>	<b>Stations Location</b>	<b>National X</b>	<b>Grid Ref. Y</b>	<b>Discovery Series No.</b>	<b>County Code</b>
0100	River Br	266855	232768	49	KE
0160	Kishawanny Br	264567	233456	49	OF
0200	Boyne Br	263605	234529	49	OF
0300	Kinnafad Br	261428	235002	49	OF
0400	Ballyboggan Br	263807	240222	49	MH
0500	Leinster Br	266554	243756	49	MH
0600	Ashfield Br	268374	244832	49	MH
0700	Stonyford Br	268939	247361	49	MH
0800	Inchamore Br	271089	250000	42	MH
0900	Scarriff Br	273445	252734	42	MH
1000	Derrinydaly Br	276708	253872	42	MH
1100	D/s Athboy R confl	0	0	42	MH
1200	West Br Trim	279790	257004	42	MH
1300	Newtown Trim Br	281648	256859	42	MH
1400	u/s Knightsbrook R confl (RHS)	282514	256693	42	MH
1500	Bective Br	286038	259705	42	MH
1600	Ballinter Br	289519	262675	42	MH
1700	Kilcarn Old Bridge	288535	265524	42	MH
1800	Railway Br Navan	287430	267428	42	MH
1900	2km d/s Navan (LHS)	288493	269122	42	MH
2000	Broadboyne Br	291863	271315	42	MH
2010	d/s Broadboyne Br (RHS)	292440	271435	43	MH
2100	Slane Br	296414	273631	43	MH
2150	Ford S of Broc Ho	300003	271834	43	MH
2200	Obelisk Br	304510	276200	43	MH

*Site Altitude and Upstream Catchment Characteristics (where available):*

<b>Site No.</b>	<b>Alt</b>	<b>Area</b>	<b>Sil</b>	<b>Cal</b>	<b>Pasture</b>	<b>Forestry</b>	<b>Bogs</b>	<b>Urban</b>	<b>Misc Ag.</b>	<b>Water</b>	<b>Other</b>
0100	71	21	0	100	70	1	8	3	18	0	0
0160	67	46	0	100	59	2	15	3	17	0	3
0200	66	60	0	100	63	2	12	4	16	0	3
0300	66	78	0	100	66	2	10	5	15	0	2
0400	65	304	0	100	62	3	18	2	10	0	5
0500	65	327	0	100	64	3	17	2	10	0	5
0600	64	436	0	100	67	2	15	2	11	0	4
0700	63	446	0	100	67	2	14	2	10	0	4
0800	61	737	1	99	72	2	11	1	9	1	5
0900	59	965	1	99	72	2	10	1	10	1	4
1000	56	1162	0	100	72	2	10	1	10	1	4
1200	50	1362	2	98	72	2	9	1	12	0	4
1300	49	1371	2	98	72	2	9	1	12	0	4
1400	48	1372	2	98	72	2	9	1	12	0	4
1500	43	1491	1	99	72	2	8	1	13	0	3
1600	37	1576	1	99	72	2	8	1	14	0	3
1700	33	1675	1	99	71	2	7	1	15	0	3
1800	31	1685	1	99	71	2	7	1	15	0	3
1900	27	2415	22	78	73	2	5	2	15	1	3
2000	23	2428	22	78	73	2	5	2	16	1	3
2010	21	2430	22	78	73	2	5	2	16	1	3
2100	13	2486	23	77	73	2	5	2	16	1	3
2150	8	2495	23	77	73	2	5	2	16	1	3
2200	2	2619	25	75	73	2	5	1	16	1	2

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

**HYDROMETRIC AREA 09 (Camac, Ward)**

CAMAC \*  
TOLKA

09C02  
09T01

River and Code : **CAMAC**  
 Tributary of : 09L01 LIFFEY  
 OS Grid Ref of Confluence: N 137 343  
 Date(s) Surveyed: 9/6/2008, 28/10/2008

09/C/02

OS Catchment No: 168

Station Nos.	Biological Quality Ratings (Q Values)																			
	1971	1974	1977	1979	1981	1983	1984	1986	1987	1988	1989	1990	1991	1994	1996	1998	2002	2005	2007	2008
0050	-	-	-	-	-	-	3-4	-	-	-	-	-	-	-	-	-	-	-	-	-
0100	5	5	5	4-5	4-5	3	4-5	3	-	4	-	-	4	-	4	3	3-4	3	4-5	-
0150	-	-	-	-	-	-	-	-	-	4	-	-	4-5	-	-	-	-	-	-	-
0200	3-4	3	3	3-4	3-4	3	3	2-3	-	2	2/0	2	2	2	2	-	-	-	-	-
0250	-	-	-	-	-	-	-	-	-	3	2/0	3	3	-	-	-	2-3	3	3/0	-
0270	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-
0300	1	-	1/0	1/0	1/0	3	3	1/0	3	-	-	-	-	-	-	-	-	-	-	-
0310	-	-	-	-	-	-	-	-	-	2-3	2-3	3	3	-	2-3	2-3	3	3	3	-
0400	-	-	-	-	1/0	2/0	1	3	1	2-3	1	1	2	1	1	3	-	-	-	-
0500	-	-	-	-	1/0	1	1	1	1	2	1	1	2/0	1/0	1-2	1-2	1	2/0	2	2-3

**Assessment:** A slight improvement from serious to moderate pollution was noted in 2008 at the Inchicore station (0500), however the macroinvertebrate fauna continue to indicate poor ecological conditions in the lower reaches.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Br NNE of Glenaranean	0	0	50	
0100	Br 1 km SW (u/s) of Saggart	303438	226052	50	DN
0150	Br 1 km NW (d/s) of Saggart	303167	227047	50	
0200	Br N of Brownsbarn	304036	228507	50	DN
0250	Br SE of Baldonnell Ho	304910	229251	50	DN
0270	End of Cherrywood Avenue	0	0	50	
0300	Just d/s Clondalkin Br	0	0	50	
0310	Riversdale Estate Br	307211	231600	50	DN
0400	Kylemore Rd Br	310326	232309	50	DN
0500	Camac Close Emmet Rd (Richmond Park)	312092	233545	50	DN

**Site Altitude and Upstream Catchment Characteristics (where available):**

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	131	6	100	0	51	29	0	3	16	0	0
0200	95	1	21	79	18	0	0	66	16	0	0
0310	57	18	29	71	30	1	0	43	24	0	2
0400	41	36	14	86	19	0	0	63	17	0	1
0500	20	40	13	87	17	0	0	67	16	0	1

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **TOLKA**  
 Tributary of : Sea - Dublin Bay  
 OS Grid Ref of Confluence: O 176 358  
 Date(s) Surveyed: 9/6/2008, 28/10/2008

**09/T/01**  
 OS Catchment No: 167

Station Nos.	Biological Quality Ratings (Q Values)																			
	1971	1973	1975	1977	1979	1981	1983	1985	1987	1988	1989	1990	1991	1994	1996	1998	2002	2005	2007	2008
0100	-	-	-	-	1	4	3-4	3	-	3	-	-	3	3	-	-	-	-	-	-
0130	-	-	-	-	3	3	4	3	-	3	-	-	-	3	-	-	-	-	-	-
0140	-	-	-	-	-	-	-	-	-	3	-	-	3	3	-	-	-	-	-	-
0300	-	-	-	-	-	3-4	-	3	-	3	-	-	3	3	2	3	3	3-4	3-4	-
0310	-	-	-	-	-	-	-	-	-	3	-	-	-	3	-	-	-	-	-	-
0400	-	-	-	-	3-4	3-4	3-4	3-4	-	3	-	-	3	3-4	-	-	-	-	-	-
0600	4-5	4	3-4	3-4	3-4	3-4	3-4	3-4	-	2	2	2	2-3	3	3	3	3-4	3-4	3-4	-
0700	3-4	3-4	2-3	3-4	2-3	3	2-3	2-3	-	2	-	-	2	2-3	-	-	-	-	-	-
0800	1	2	2-3	3-4	3	3	3	2	3	2	2-3	-	2-3	3	2-3	3	3	3	2-3	-
0900	2-3	3-4	4	3-4	3	3-4	3-4	3	-	2	3	-	3	3	-	-	-	-	-	-
1000	4	4	2-3	3	2-3	2-3	2-3	2-3	-	2-3	3	-	2-3	-	3	2-3	2-3	3	2	2-3
1050	4-5	-	-	-	-	3	3	3	-	3	3	-	3	3	-	-	-	-	-	-
1100	1	1	1/0	1	1	3/0	1/0	2	2	1-2	1-2	1	1/0	2-3/0	3	2-3	2-3	2/0	3	-
1200	1	1	-	1	1	1-2	2	2	2	2	1/0	1-2	2	2-3	-	-	-	-	-	-

**Assessment:** A slight improvement from serious to moderate pollution was noted at Dunsink Lane Bridge (1000) in 2008, however the pollution tolerant macroinvertebrate fauna continues to indicate poor ecological conditions.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Portan Br	0	0	50	
0130	3d Br d/s Portan Br	0	0	50	
0140	Br at Woodpark Stud	0	0	50	
0300	Br at Black Bull	300722	245600	50	MH
0310	Br W of The Flat House	0	0	0	
0400	Br NNE of Dunboyne	0	0	50	MH
0600	Loughsallagh Br	302782	241683	50	MH
0700	Clonee Br	0	0	50	
0800	Mulhuddart Br	306710	240384	50	DN
0900	Old Corduff Rd Br u/s Blanchardstown	0	0	50	
1000	Dunsink Lane Br (Abbotstown Br)	309292	238346	50	DN
1050	Cardiff's Br	312422	237746	50	
1100	Violet Hill Drive Finglas	314313	237425	50	DN
1200	Drumcondra Rd Br	316200	236730	50	

*Additional Surveys (2008)*

*Site Altitude and Upstream Catchment Characteristics (where available):*

<b>Site No.</b>	<b>Alt</b>	<b>Area</b>	<b>Sil</b>	<b>Cal</b>	<b>Pasture</b>	<b>Forestry</b>	<b>Bogs</b>	<b>Urban</b>	<b>Misc Ag.</b>	<b>Water</b>	<b>Other</b>
0300	75	18	0	100	80	0	0	1	19	0	0
0600	64	44	0	100	83	0	0	3	15	0	0
0800	52	103	0	100	67	0	0	10	23	0	0
1000	40	116	0	100	61	0	0	17	22	0	0
1100	15	136	0	100	53	0	0	27	20	0	0

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

**HYDROMETRIC AREA 10 (Avoca)**

AVOCA \*

10A03

River and Code : **AVOCA**  
 Tributary of :  
 OS Grid Ref of Confluence: T 256 729  
 Date(s) Surveyed: 3/10/2008, 9/6/2008

**10/A/03**  
 OS Catchment No: 171

Station Nos.	Biological Quality Ratings (Q Values)												
	1971	1974	1977	1981	1986	1990	1994	1997	2000	2003	2006	2007	2008
0650	-	-	-	-	5	-	-	-	-	-	-	-	-
0680	-	-	-	-	-	4-5	5	4	4	3-4	-	-	-
0700	1/0	1/0	1/0	1/0	1/0	1/0	1/0	-	1/0	-	4	1/0	2/0
0800	1/0	1/0	1/0	-	1/0	1/0	-	-	-	-	-	-	-
0900	-	-	-	-	2/0	2/0	1/0	-	-	-	-	-	-
1000	1/0	1/0	1/0	-	2/0	-	-	-	-	-	-	-	-
1200	-	-	-	-	1/0	1/0	-	-	-	-	-	-	-

**Assessment:** Serious pollution continues at Avoca Bridge (0700) in 2008 due to acid mine drainage effluent.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0650	0.1km d/s Avonbeg R confl	0	0	62	WW
0680	1km d/s Avonbeg R confl	319661	182146	62	WW
0700	Avoca Br	320337	179825	62	WW
0800	At Woodenbridge Golf Club	319290	177220	62	WW
0900	Footbr 0.5km d/s Aughrim R	320245	176469	62	WW
1000	At Shelton Abbey (u/s I.F.I.)	321810	175230	62	WW
1200	Arklow Br	324720	173530	62	WW

**Site Altitude and Upstream Catchment Characteristics (where available):**

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0680	29	362	100	0	17	18	40	0	12	1	13
0700	22	378	100	0	19	17	38	1	12	1	12
0900	2	615	100	0	27	17	30	1	12	0	13

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.



**HYDROMETRIC AREA 11 (Aughboy (Wexford))**

# AUGHBOY (WEXFORD)

11A02

# indicates rivers having seriously polluted stretches at time of this survey.

River and Code : **AUGHBOY (WEXFORD)**

**11/A/02**

Tributary of : 11O01 OWENAVORRAGH

OS Catchment No: 177

OS Grid Ref of Confluence: T 200 562

Date(s) Surveyed: 3/10/2008

Station Nos.	Biological Quality Ratings (Q Values)							
	1989	1993	1995	1998	2001	2005	2007	2008
0180	3	3	2	1	2	3	2-3	-
0200	-	-	-	-	-	-	2*	2

**Assessment:** The macroinvertebrate fauna continues to indicate serious pollution on the Aughboy River at Riverchapel (0200) in 2008.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0180	Riverchapel Br	319604	155346	69	WX
0200	Br at Riverchapel	319605	155347	69	WX

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0180	6	12	100	0	93	0	0	4	3	0	0

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

**HYDROMETRIC AREA 14 (Barrow, Tully Stream)**

BARROW	14B01
# TULLY STREAM	14T02

# indicates rivers having seriously polluted stretches at time of this survey.

River and Code : **BARROW**  
 Tributary of : 14B01 BARROW  
 OS Grid Ref of Confluence: S 722 388  
 Date(s) Surveyed: 3/10/2008

14/B/01

OS Catchment No: 183

Station Nos.	Biological Quality Ratings (Q Values)																			
	1971	1973	1974	1975	1976	1978	1979	1980	1982	1986	1989	1991	1994	1997	2000	2003	2005	2006	2007	2008
0050	-	-	-	-	-	-	-	5	5	5	5	-	5	4-5	4-5	4-5	-	4	-	-
0100	-	-	-	-	-	-	-	3-4	4-5	4	3	-	3-4	4	4	3-4	-	3	-	-
0200	4	-	4	-	-	-	-	4	4	4	3-4	-	3-4	4	4	3-4	-	4	-	-
0300	4-5	-	3-4	-	-	-	-	5	-	4	4	-	4	3-4	4	4	-	4	-	-
0400	5	-	3-4	-	3-4	4	-	5	-	4	4	-	-	-	-	-	-	-	-	-
0500	3-4	-	3-4	-	3	3-4	-	4	-	4	4	-	3-4	3-4	3-4	3-4	-	3-4	-	-
0550	-	-	-	-	-	-	-	-	-	-	3-4	-	-	-	-	-	-	-	-	-
0600	4	-	3-4	-	4	3-4	-	4	-	4	4	-	4	4	3-4	3-4	-	3-4	-	-
0700	4	-	4	-	-	4	-	4	4	4-5	4-5	-	4	4	4	4	-	3-4	-	-
0760	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-
0800	4	-	-	-	-	2-3	-	3-4	-	4	4	-	4	-	-	-	-	-	-	-
0850	-	-	-	-	-	-	-	-	-	-	-	-	-	3-4	-	-	-	-	-	-
0900	4	-	4-5	-	2-3	3-4	-	4	4	4	4	-	4	3-4	3-4	3-4	-	3-4	-	-
1000	4-5	-	4-5	-	4-5	-	-	4	-	4-5	4	-	4	3-4	3-4	4	-	3-4	-	-
1200	4-5	-	4-5	-	-	-	-	5	-	4	3	-	3	-	-	-	-	-	-	-
1300	-	-	-	-	-	-	-	4	-	4-5	3-4	-	4	-	3-4	3-4	-	3	-	-
1400	5	-	5	-	-	-	-	4	-	4	4	-	4	4	4	4	-	4	-	-
1500	-	-	-	-	-	-	-	4	4	4	4	-	4	3-4	3-4	4	-	3-4	-	-
1590	-	-	-	-	-	-	-	-	-	-	-	-	-	3-4	3-4	3-4	-	-	-	-
1600	1-2	-	3	-	1-2	1-2	-	3	3-4	4	3-4	-	3-4	-	-	-	-	-	-	-
1800	1	-	1-2	-	1-2	1-2	-	4	4	4	4	-	3-4	-	-	-	-	-	-	-
1900	1	-	2	-	2-3	2	-	4	4	4	4	-	4	3-4	4	4	-	4	-	-
2000	1-2	-	2	-	-	2	-	3	3-4	3-4	3	-	4	3-4	4	4	-	-	-	-
2150	-	-	-	-	-	-	-	-	3-4	4	4	-	4	-	-	-	-	-	-	-
2200	3-4	-	2-3	-	-	3	-	-	-	-	-	-	-	-	3	4	-	3-4	-	-
2400	2	-	2	-	2	2	-	-	2	1	-	-	-	-	-	-	-	-	-	-
2450	-	-	-	-	-	-	-	-	3	3-4	4	-	3	3	3	3	-	-	-	-
2455	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-
2500	2	3	-	-	2	-	-	3	3	3-4	3-4	-	-	-	-	-	-	-	-	-
2600	3	-	3	-	3-4	2	-	3-4	3	3	3-4	-	3-4	3	3	3-4	-	4	-	-
2680	-	-	-	-	-	-	-	-	-	-	-	-	-	3-4	3-4	4	-	4	-	-
2700	4	-	-	4	4	4	-	3	3-4	3-4	3	-	3	-	-	-	-	-	-	-
2750	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	4	-	-	-	-
2800	4	-	-	4	-	-	3-4	3	3-4	3-4	3	-	3	-	-	-	-	-	-	-
2900	4	-	-	4	-	-	3-4	3	2-3	2-3	2-3	-	3	3-4	3-4	4	-	4	-	-
2910	4	-	-	4	-	-	3-4	-	-	3-4	3-4	-	4	4	3-4	3-4	-	4	-	-
3000	-	-	-	-	-	-	-	4	4	3-4	3-4	-	3-4	3-4	4	3-4	-	4	-	-
3100	4-5	-	-	4	-	-	4	4	4	4	3	-	3-4	-	-	3-4	-	3-4	-	-
3300	4-5	-	-	4-5	-	-	3-4	4	4-5	4	4	-	4	-	-	3-4	-	4	-	-
3500	4	-	-	3-4	-	-	4	4	4	4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	4	4
3600	4	-	-	-	-	-	4	-	4	4	-	-	-	-	-	-	-	-	-	-

**Assessment:** Improvement, to good ecological quality, recorded in 2007 maintained in 2008 sampling at the EC Exchange of Information site (3500).

*Additional Surveys (2008)*

<b>Station No.</b>	<b>Stations Location</b>	<b>National X</b>	<b>Grid Ref. Y</b>	<b>Discovery Series No.</b>	<b>County Code</b>
0050	Tinnahinch Br	235155	210490	54	LS
0100	Ford S of Rearyvalley	236128	213025	54	LS
0200	Ballyclare Br	238591	214722	54	LS
0300	Twomile Br	242280	211786	54	LS
0400	Bay Br	0	0	54	LS
0500	Borness Br	246396	209279	54	LS
0550	Br SE of Hammerlane	0	0	54	OF
0600	Portnahinch Br	249067	210029	54	OF
0700	Kilnahown Br	251371	210753	54	LS
0760	Barrow Br	253997	212626	55	LS
0800	1km d/s Portarlinton	0	0	55	LS
0850	D/s Portarlinton STW (RHS)	256216	212270	55	LS
0900	Ford S of Trascaen	258196	212310	55	LS
1000	Pass Br	262277	210933	55	KE
1200	1km d/s Monasterevan Br	0	0	55	KE
1300	Ford E of Fisherstown House	263295	205798	55	LS
1400	Dunrally Br	263649	201794	55	LS
1500	Bert Br	265925	196929	55	KE
1590	u/s Athy at Boat Club	268061	194455	55	KE
1600	Athy Br	0	0	55	KE
1800	Ardreigh Lock	0	0	55	LS
1900	Tankardstown Br	270366	188203	61	LS
2000	Maganey Br	271712	184733	61	LS
2150	Weir near Knockbeg College	0	0	61	LS
2200	New Br 1km u/s Carlow Br	272007	177797	61	LS
2400	1.5km d/s Graigue Br	0	0	61	LS
2450	At Dolmen Hotel	270638	174158	61	LS
2455	Br at Dolmen Hotel	270591	174098	61	LS
2500	d/s Clogrennan Lock	0	0	61	LS
2600	Milford Br	269917	170497	61	CW
2680	Cardinal Moran Br	269482	166332	61	CW
2700	Leighlinbridge	269067	165467	61	CW
2750	At Island nr Killinane Ho	269534	163800	61	CW
2800	u/s Bagenalstown	270355	163054	61	CW
2900	Royal Oak Br (LHS)	268937	161444	61	CW
2910	Royal Oak Br (RHS)	268937	161444	61	CW
3000	Fenniscourt Lock	269757	159377	68	CW
3100	Goresbridge (100m u/s on LHS)	268437	153717	68	KK
3300	Ballyteigelea Br	271000	150410	68	KK
3500	Graiguenamanagh Br	270973	143540	68	KK
3600	St Mullins	0	0	68	KK

*Additional Surveys (2008)*

*Site Altitude and Upstream Catchment Characteristics (where available):*

<b>Site No.</b>	<b>Alt</b>	<b>Area</b>	<b>Sil</b>	<b>Cal</b>	<b>Pasture</b>	<b>Forestry</b>	<b>Bogs</b>	<b>Urban</b>	<b>Misc Ag.</b>	<b>Water</b>	<b>Other</b>
0050	105	18	100	0	15	55	21	0	2	0	8
0100	83	35	88	12	29	38	24	0	4	0	6
0200	80	58	57	43	43	24	22	0	5	0	6
0300	77	94	41	59	57	15	15	0	8	0	4
0500	70	207	36	64	60	10	11	1	13	0	6
0600	69	343	22	78	58	8	10	3	16	0	5
0700	69	385	19	81	58	8	9	3	16	0	6
0760	69	405	18	82	59	8	8	3	16	0	7
0850	69	417	18	82	59	8	8	3	16	0	6
0900	66	420	18	82	59	8	8	3	16	0	6
1000	59	1064	9	91	53	5	19	2	14	0	7
1300	58	1118	9	91	53	4	18	2	15	0	7
1400	57	1212	8	92	53	5	17	2	17	0	7
1500	56	1566	8	92	53	4	14	2	20	0	6
1590	55	1575	8	92	53	4	14	2	21	0	6
1900	52	1695	8	92	51	4	13	2	24	0	6
2000	49	1708	8	92	51	4	13	2	24	0	6
2200	49	2070	17	83	52	3	10	2	27	0	5
2450	49	2255	23	77	52	3	10	2	28	0	5
2600	50	2312	23	77	52	3	9	2	28	0	5
2680	40	2373	23	77	52	3	9	2	28	0	5
2700	40	2376	23	77	53	3	9	2	28	0	5
2750	39	2398	22	78	53	3	9	2	28	0	5
2800	39	2398	22	78	53	3	9	2	28	0	5
2900	34	2418	23	77	53	3	9	2	28	0	5
2910	34	2418	23	77	53	3	9	2	28	0	5
3000	30	2437	22	78	53	3	9	2	28	0	5
3100	26	2566	22	78	54	3	8	2	28	0	5
3500	12	2779	27	73	54	3	9	2	27	0	5

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **TULLY STREAM**

14/T/02

Tributary of : 14B01 BARROW

OS Catchment No: 183

OS Grid Ref of Confluence: N 637 024

Date(s) Surveyed: 30/10/2008

Station Nos.	Biological Quality Ratings (Q Values)												
	1981	1986	1987	1988	1989	1990	1993	1997	2000	2003	2006	2007	2008
0100	4	4	-	-	3-4	-	3	3	3	3-4	3	-	-
0200	2	2	2	2	2	2	2-3	2	2	2-3	2-3	-	-
0300	4	2	2	2	3	-	3	2-3	2-3	1-2	2	2*	2
0390	-	-	-	-	-	-	-	-	2-3	2	2	3*	-
0400	3-4	2-3	-	2-3	3	-	3	3	-	-	-	-	-
0500	4	3	-	-	3	-	3-4	3	3	3	3	-	-
0600	-	4	-	-	3-4	-	4	3-4	4	4	3-4	-	-

**Assessment:** A slight improvement was noted at Soomeragh Bridge (0390) in 2007, however serious pollution continued at Kilberrin (0300) in 2007 and again in 2008.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br nr Tully House	273434	210936	55	KE
0200	Br at Brallistown Little	273386	210508	55	KE
0300	Kilberrin Br	271724	207883	55	KE
0390	Soomeragh Br	270975	206383	55	KE
0400	Br u/s Nurney	271268	205987	55	KE
0500	Br d/s Cherrymills Br	268191	204332	55	KE
0600	Cloney Br	265497	201233	55	KE

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	86	0	0	100	10	0	0	0	90	0	0
0300	75	43	2	98	59	4	5	12	11	0	9
0390	74	44	2	98	58	4	5	11	13	0	9
0400	73	45	2	98	58	4	5	11	13	0	9
0500	62	65	1	99	55	4	6	8	22	0	6
0600	59	195	16	84	54	2	6	5	28	0	5

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

**HYDROMETRIC AREA 15 (Mountrath, Nore)**

MOUNTRATH  
NORE

15M01  
15N01



River and Code : **MOUNTRATH**  
 Tributary of : 15N01 NORE  
 OS Grid Ref of Confluence: S 348 913  
 Date(s) Surveyed: 3/10/2008

15/M/01  
 OS Catchment No: 184

Station Nos.	Biological Quality Ratings (Q Values)											
	1971	1976	1980	1985	1987	1991	1995	1998	2001	2005	2007	2008
0050	-	-	-	-	-	-	4	4-5	4	4-5	4	-
0080	-	-	-	-	5	5	-	-	-	-	-	-
0100	-	-	4-5	4	4	4	4	4	4-5	3-4	2	4
0160	-	-	4-5	4	3-4	4	4	4	4	3-4	-	-
0200	-	-	4	4	3-4	4	-	-	-	-	-	-
0300	5	4	4-5	4	4	4	4	3-4	3-4	3-4	3-4	-

**Assessment:** Reversion to good ecological quality where seriously polluted by farm waste in 2007.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Br S of Drim	233320	198857	54	LS
0080	Roundwood Br	0	0	0	LS
0100	Br near Rushin House	233923	196765	54	LS
0160	Rushin Br	235200	194917	54	LS
0200	1.5 km d/s Mountrath	235600	193200	0	WD
0300	Forest Br	235418	191833	54	LS

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	162	7	100	0	10	36	39	0	0	0	14
0100	111	23	77	23	45	16	25	0	5	0	8
0160	101	46	64	36	56	10	22	0	7	0	4
0300	91	57	51	49	58	9	18	3	7	0	5

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **NORE**  
 Tributary of : Barrow/Nore/Suir Estuary  
 OS Grid Ref of Confluence: S 706 306  
 Date(s) Surveyed: 3/10/2008

15/N/01

OS Catchment No: 184

Station Nos.	Biological Quality Ratings (Q Values)												
	1971	1975	1979	1981	1984	1987	1991	1995	1998	2001	2004	2007	2008
0030	-	-	-	-	-	-	-	3	4	3	4	-	-
0080	-	-	-	-	-	-	3-4	3-4	3-4	3-4	3-4	4	-
0100	-	-	4-5	4-5	4	4	4	-	-	-	-	-	-
0200	-	-	3	4	3-4	3-4	4	3	3-4	3-4	3-4	-	-
0300	5	4-5	4	4	4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	-
0400	5	5	4-5	-	3-4	3-4	4	4	3-4	3-4	3-4	-	-
0500	4-5	4-5	4-5	-	-	4	-	4*	4	4	4	4	-
0580	-	-	-	-	-	-	-	3-4	3-4	4	4	-	-
0600	5	4-5	5	-	4-5	4-5	4	-	-	-	-	-	-
0700	-	-	4	-	3-4	4	4	4	3-4	4	3-4	3-4	-
0800	5	5	4-5	-	4	4	4	-	-	-	-	-	-
0900	-	-	-	-	4	4-5	4	4	3-4	3-4	3-4	4	-
1000	5	5	5	-	4	4	4	-	-	-	-	-	-
1100	5	5	4-5	-	4	4	4-5	3-4	3-4	4	4	4	-
1200	-	-	-	-	4	4	4	-	-	-	-	-	-
1300	4-5	4-5	4-5	-	4	4	4	3-4	4	4-5	4-5	4	-
1400	5	4-5	4	4	4	3-4	3-4	-	-	-	-	-	-
1450	5	4-5	4	4	4	3-4	3-4	3-4	4	3-4	3-4	3-4	-
1500	4-5	4	3-4	4	3-4	3-4	3-4	-	-	-	-	-	-
1600	5	5	3-4	4	3-4	4	4	3-4	4	4	4	-	-
1700	-	-	4	-	4	4	4	4	4	4	4	4	-
1750	-	-	-	-	-	4	4	-	-	-	-	-	-
1800	5	4-5	5	-	5	5	4	4	4-5	4	4	4	-
1900	-	-	-	-	2-3	4-5	4	3-4	-	-	-	-	-
1950	3-4	3	-	-	2-3	4	3-4	3-4	3-4	3-4	3-4	3-4	-
2000	-	-	3	3-4	3-4	4	4	3	3-4	3	3-4	3	-
2100	-	-	4	-	3-4	3-4	4	4	-	-	-	-	-
2120	-	-	4	-	3-4	3-4	4	4	4	3-4	3-4	-	-
2200	-	-	4	-	3-4	4	4	3-4	3-4	3-4	3-4	4	-
2305	4-5	4-5	3-4	3	3	2	2	2	3	2	3	2	3
2310	4-5	4-5	3-4	4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	4	-
2320	-	-	-	-	-	-	-	3	3-4	3-4	3	3	-
2400	-	-	4	4	4	4	3-4	3-4	4	4	3-4	3-4	-

**Assessment:** Poor ecological quality along left-hand side of river where seriously polluted in 2007 and other years in the past.

*Additional Surveys (2008)*

<b>Station No.</b>	<b>Stations Location</b>	<b>National X</b>	<b>Grid Ref. Y</b>	<b>Discovery Series No.</b>	<b>County Code</b>
0030	Br SW of Clonakenny	210834	180507	59	TY
0080	Br NE Clonakenny	213153	181463	60	TY
0100	Curracunneen Br	214207	182899	60	WD
0200	Nore Br, SE of Roscrea	217232	185677	60	TY
0300	Quaker's Br	221099	186962	60	LS
0400	New Br, WNW of Borris-in-Ossory	223718	187833	60	LS
0500	Br S of Coolrain	229321	190565	54	LS
0580	Danganroe Br	232593	193087	54	LS
0600	Castletown, New Road Br	234208	192101	54	WD
0700	Kilbricken Br	236144	190004	54	LS
0800	New Br	237453	187978	60	WD
0900	Poorman's Br	240775	185967	60	LS
1000	Waterloo Br	241165	184062	60	WD
1100	Watercastle Br	242572	180312	60	LS
1200	New Br, u/s Durrow	241540	178595	60	LS
1300	Tallyho Br	242319	176232	60	LS
1400	0.5 km u/s Ballyragget	244267	171182	60	WD
1450	Ballyragget Br	244528	170813	60	KK
1500	1.5 km d/s Ballyragget	244009	169382	60	
1600	Lismaine Br	244102	166118	60	KK
1700	Threecastles Br	245811	162687	60	KK
1750	ENE of Troyswood House	249539	159374	67	KK
1800	1 km u/s Green's Br, Kilkenny	250457	157314	67	KK
1900	St John's Br, Kilkenny	251080	155819	67	KK
1950	Fennessy's Mill (Ossory Br)	252280	154969	67	KK
2000	NE of Warrington, d/s Kilkenny	253739	154473	67	KK
2100	Bennettsbridge, 600 m d/s br	255340	148725	67	KK
2120	1 km d/s Bennettsbridge	255341	148743	67	KK
2200	Ballylinch Br	254688	143592	67	KK
2305	Thomastown Br (LHS)	258572	141743	67	KK
2310	Thomastown Br (RHS)	258572	141743	67	KK
2320	1 km d/s Thomastown Br	259179	141770	67	KK
2400	Brownsbarn Br	261808	139168	68	KK

*Additional Surveys (2008)*

*Site Altitude and Upstream Catchment Characteristics (where available):*

<b>Site No.</b>	<b>Alt</b>	<b>Area</b>	<b>Sil</b>	<b>Cal</b>	<b>Pasture</b>	<b>Forestry</b>	<b>Bogs</b>	<b>Urban</b>	<b>Misc Ag.</b>	<b>Water</b>	<b>Other</b>
0030	130	6	94	6	87	8	0	0	5	0	0
0080	120	19	72	28	92	3	0	0	5	0	0
0100	112	30	67	33	95	2	0	0	3	0	0
0200	101	47	58	42	92	1	1	0	2	0	3
0300	100	83	45	55	74	6	8	0	6	0	7
0400	100	109	40	60	76	5	6	0	6	0	6
0500	95	153	35	65	77	5	5	0	7	0	6
0580	92	268	55	44	59	17	9	0	9	0	5
0600	90	275	54	46	60	16	9	0	9	0	6
0700	88	339	53	47	60	15	10	1	9	0	5
0800	86	347	52	48	60	15	10	1	9	0	5
0900	81	429	42	58	61	12	10	1	9	0	6
1000	79	474	38	62	63	12	10	1	9	0	5
1100	76	489	37	63	62	12	10	1	9	0	5
1200	74	561	32	68	63	11	8	1	11	0	5
1300	71	947	19	81	69	8	6	1	11	0	5
1400	65	1058	17	83	71	8	5	1	11	0	4
1450	64	1059	17	83	71	8	5	1	11	0	4
1500	62	1067	17	83	71	8	5	1	11	0	4
1600	58	1105	17	83	71	8	5	1	12	0	4
1700	53	1235	15	85	72	7	4	1	12	0	4
1750	47	1561	12	88	72	8	3	1	11	0	5
1800	44	1570	12	88	72	8	3	1	11	0	5
1900	42	1644	11	89	72	7	3	1	12	0	5
1950	40	1648	11	89	72	7	3	1	12	0	5
2000	38	1705	11	89	72	7	3	1	12	0	4
2100	29	1768	10	90	71	7	3	1	13	0	4
2120	29	1768	10	90	71	7	3	1	13	0	4
2200	21	2222	10	90	73	6	2	1	14	0	4
2305	14	2309	12	88	73	6	2	1	14	0	4
2310	14	2309	12	88	73	6	2	1	14	0	4
2320	13	2358	12	88	73	6	2	1	14	0	4
2400	8	2418	15	85	73	6	2	1	14	0	4

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

**HYDROMETRIC AREA 18 (Blackwater (Munster))**

BLACKWATER (MUNSTER) \*

18B02

River and Code : **BLACKWATER (MUNSTER)**

18/B/02

Tributary of :

OS Catchment No: 190

OS Grid Ref of Confluence: X 098 997

Date(s) Surveyed: 8/10/2008

Station Nos.	Biological Quality Ratings (Q Values)																	
	1971	1974	1975	1978	1979	1980	1982	1984	1986	1990	1994	1997	2000	2003	2005	2006	2007	2008
0050	5	-	5	-	-	-	-	-	-	4	4	4-5	4	3-4	-	3-4	-	-
0060	-	-	-	-	-	-	-	-	-	4	4	4	4	4	-	4	-	-
0075	5	-	4-5	-	-	-	-	-	-	4	4	4	4	3-4	-	3-4	-	-
0100	-	-	-	-	-	-	-	-	-	4	4	4	4	4	-	-	-	-
0200	5	-	5	5	-	5	-	-	4	4	4	4	4-5	4	-	4	-	-
0300	4-5	4-5	4	4-5	-	4-5	4-5	4-5	4-5	4	-	-	-	-	-	-	-	-
0400	3-4	3	1	3	-	4	3-4	2-3	3	3	4	3-4	4	3-4	-	3-4	-	-
0500	-	3-4	3-4	2-3	-	4	-	-	-	4	-	-	-	-	-	-	-	-
0600	4-5	4-5	4	4	-	4	-	4	4	4	4	4-5	4-5	4-5	-	4-5	-	-
0700	5	-	4-5	-	4	4	-	-	4	4	-	-	-	-	-	-	-	-
0750	-	-	-	-	-	-	-	-	-	-	4-5	4-5	4-5	4-5	-	4-5	-	-
0800	5	-	5	-	5	4	-	-	4	4	4	4	4-5	4	-	-	-	-
0810	5	-	5	-	5	4	-	-	2-3	4	4	4	4-5	4	-	-	-	-
0900	-	-	-	-	4-5	4	-	-	4	4-5	5	4-5	4-5	4	-	4-5	-	-
1000	5	-	5	-	5	5	-	-	4-5	4-5	4-5	4-5	4-5	4-5	-	4-5	-	-
1100	-	-	-	-	5	5	-	-	4-5	4	5	4-5	4	4-5	-	4-5	-	-
1200	5	-	5	-	4-5	5	-	-	4-5	4-5	4-5	4-5	4	4	-	4-5	-	-
1300	5	-	5	-	4-5	5	-	-	3-4	4	5	4-5	4	4	-	4	-	-
1400	5	5	5	4-5	-	5	4-5	4-5	4	4	4	4	4	4	-	4	-	-
1450	-	-	-	-	-	-	4	-	-	4	-	-	-	-	-	-	-	-
1460	-	-	-	-	-	3-4	3	-	3-4	3-4	-	-	-	-	-	-	-	-
1500	-	-	-	-	-	-	4	3	3-4	3	4	3-4	3-4	3-4	-	3-4	-	-
1510	4	3	4	3-4	-	3-4	3	3	3-4	3	4	3-4	3-4	3-4	-	3-4	-	-
1700	-	-	-	-	-	-	-	-	3	3	-	-	-	-	-	-	-	-
1800	3	3	2-3	3	-	3	3	3	3	3	4-5	3-4	3-4	4	-	4	-	-
1900	4	3	3-4	3-4	-	3	3-4	3	3	3-4	4	3-4	3-4	4	3-4	4	3-4	4
2000	4	-	4	-	-	4	4	-	3-4	3-4	4-5	3-4	4	4	-	4	-	-
2100	4	-	4	-	-	4	3-4	-	3-4	4	-	-	-	-	-	-	-	-
2200	-	-	-	-	-	-	-	-	-	-	4	3	3	2	-	3	-	-
2210	-	-	-	-	-	-	-	-	-	-	4	3-4	3-4	4	-	4	-	-
2300	4	-	4	-	-	-	3-4	-	-	-	-	-	-	-	-	-	-	-
2400	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-
2450	5	-	5	-	-	4	4	-	4	-	4-5	4	3-4	4	-	3-4	-	-
2500	5	-	5	-	-	3-4	4	-	4	4	4	3-4	4	4	-	4	-	-
2600	-	-	-	-	-	4	-	-	4	3-4	4	4	4	4	-	4	-	-
2700	5	-	5	-	-	3-4	4	-	3-4	3-4	4	4	4	4	-	4	-	-

**Assessment:** Good ecological quality recorded at the EC Exchange of Information site (1900) in 2008.

*Additional Surveys (2008)*

<b>Station No.</b>	<b>Stations Location</b>	<b>National X</b>	<b>Grid Ref. Y</b>	<b>Discovery Series No.</b>	<b>County Code</b>
0050	Doctor's Hill Br	114486	106717	72	CK
0060	Kingwilliamstown Br	115164	103781	72	CK
0075	Newquarter Br	115294	100829	72	KY
0100	Lisheen Br	115976	97496	79	KY
0200	Nohaval Br	117274	94272	79	KY
0300	Duncannon Br	118006	93143	79	KY
0400	U/s Awnaskirtaun R confl	118644	93139	79	CK
0500	D/s Awnaskirtaun R confl	0	0	0	CK
0600	Shamrock Br	122125	93563	79	CK
0700	Charles' Br	124818	94397	79	CK
0750	Ford SW of Dromsicane	126834	92720	79	CK
0800	Keale Br (RHS)	129518	93541	79	CK
0810	Keale Br (LHS)	129518	93541	79	CK
0900	Colthurst Br	132816	95469	79	CK
1000	Ballymaquirk Br	138152	98787	79	CK
1100	1.5km d/s Ballymaquirk Br	139545	99251	79	CK
1200	Roskeen Br	144272	98875	80	CK
1300	Lombardstown Br	146412	96954	80	CK
1400	Longfield's Br	151654	97625	80	CK
1450	2km u/s Rly Br Mallow (LHS)	0	0	0	CK
1460	2km u/s Rly Br Mallow (RHS)	0	0	0	CK
1500	Rly Br, Mallow (LHS)	155040	97910	80	CK
1510	Rly Br, Mallow (RHS)	155040	97910	80	CK
1700	1.5km d/s Mallow Br	157538	98144	80	CK
1800	Ne of Ballymagooly	159473	99156	80	CK
1900	Killavullen Br	164841	99774	80	CK
2000	Ballyhooly Br	172905	98743	80	CK
2100	Cregg Castle	177904	98435	80	CK
2200	Br in Fermoy (LHS)	181219	98556	81	CK
2210	Fermoy Br (RHS)	181227	98557	81	CK
2300	2km d/s Fermoy Br	182523	99572	81	CK
2400	Careysville	185560	99575	81	CK
2450	W of Kilmurry South	187495	99578	81	CK
2500	Ballyduff Br	196540	99120	81	WD
2600	Lismore Br	204832	98762	81	WD
2700	2km d/s Lismore Br	206647	98827	81	WD

*Additional Surveys (2008)*

*Site Altitude and Upstream Catchment Characteristics (where available):*

<b>Site No.</b>	<b>Alt</b>	<b>Area</b>	<b>Sil</b>	<b>Cal</b>	<b>Pasture</b>	<b>Forestry</b>	<b>Bogs</b>	<b>Urban</b>	<b>Misc Ag.</b>	<b>Water</b>	<b>Other</b>
0050	227	10	0	100	6	50	12	0	6	0	27
0060	191	18	0	100	24	31	15	0	5	0	25
0075	167	39	0	100	38	20	21	0	10	0	12
0100	144	62	0	100	48	14	21	0	7	0	10
0200	127	89	0	100	55	10	16	0	8	0	11
0300	123	117	0	100	56	8	17	1	8	0	10
0400	120	118	0	100	57	8	17	1	8	0	10
0600	108	235	5	95	63	6	18	0	6	0	7
0700	101	249	6	94	63	6	18	0	6	0	7
0750	96	253	6	94	64	5	18	0	6	0	7
0800	89	322	18	82	65	5	16	1	6	0	8
0810	89	322	18	82	65	5	16	1	6	0	8
0900	82	348	18	82	66	5	15	1	7	0	7
1000	69	477	29	71	66	5	12	1	9	0	8
1100	66	867	25	75	66	7	9	1	10	0	7
1200	59	951	23	77	66	7	8	1	12	0	7
1300	55	980	25	75	66	7	8	0	12	0	7
1400	48	1044	25	75	65	7	8	0	14	0	6
1500	46	1178	32	68	65	7	7	1	15	0	6
1510	46	1176	32	68	65	7	7	1	15	0	6
1700	44	1209	31	69	65	6	6	1	15	0	6
1800	42	1223	32	68	65	6	6	1	15	0	6
1900	36	1257	32	68	64	6	6	1	16	0	6
2000	27	1697	30	70	61	8	5	1	19	0	6
2100	23	1738	31	69	61	8	5	1	19	0	6
2200	21	1750	32	68	61	8	5	1	19	0	6
2210	21	1750	32	68	61	8	5	1	19	0	6
2300	20	1755	32	68	61	8	5	1	19	0	6
2400	19	2283	39	61	62	8	6	1	17	0	6
2450	19	2288	39	61	62	8	5	1	17	0	6
2500	10	2334	40	60	62	8	5	1	17	0	6
2600	3	2382	40	60	62	8	5	1	17	0	6
2700	2	2437	42	58	61	8	6	1	17	0	6

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.



**HYDROMETRIC AREA 23 (Lee (Tralee))**

# LEE (TRALEE) \*

23L01

# indicates rivers having seriously polluted stretches at time of this survey.

River and Code : **LEE (TRALEE)**  
 Tributary of : Sea - Tralee Bay  
 OS Grid Ref of Confluence: Q 815 132  
 Date(s) Surveyed: 16/9/2008

**23/L/01**  
 OS Catchment No: 196

Station Nos.	Biological Quality Ratings (Q Values)								
	1985	1987	1991	1996	1998	2001	2004	2007	2008
0030	-	3	3	2	3	2	3-4	2	2
0035	-	3	3	4	3	3-4	3-4	4	-
0040	-	3	4	-	-	-	-	-	-
0050	4	3	4	4	3-4	3-4	4	4	-
0100	3-4	3-4	4	3	3	2-3	3	3-4	-

**Assessment:** Again grossly polluted conditions along left-hand side by suspected farm wastes.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0030	Ahnambraher Br (RHS)	89700	114346	71	KY
0035	Ahnambraher Br (LHS)	89700	114346	71	KY
0040	Br d/s Ahnambraher Br	0	0	0	KY
0050	Ballyseedy Br	87875	112886	71	KY
0100	2nd Br d/s Bally Mullen Mills	84460	113368	71	KY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0030	34	19	0	100	70	1	18	0	0	0	11
0035	34	19	0	100	70	1	18	0	0	0	11
0050	12	31	12	88	75	1	11	2	3	0	8
0100	5	62	20	80	67	1	15	4	9	0	4

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

**HYDROMETRIC AREA 29 (Clarinbridge)**

# CLARINBRIDGE

29C02

# indicates rivers having seriously polluted stretches at time of this survey.

River and Code : **CLARINBRIDGE**

29/C/02

Tributary of : Sea - Galway Bay

OS Catchment No: 144

OS Grid Ref of Confluence: M 413 200

Date(s) Surveyed: 22/12/2008

Station Nos.							Biological Quality Ratings (Q Values)				
	1980	1982	1984	1986	1989	1994	1997	2000	2003	2006	2008
0030	-	-	-	-	3-4	-	4-5	-	-	-	-
0035	-	-	-	-	-	4	-	-	-	-	-
0040	-	-	-	-	3	4	4	4	4	4	-
0050	4	4-5	4	4-5	4	-	4	3	4	-	-
0200	4	4-5	4	4	4	-	-	-	-	-	-
0300	2	2	1-2	2-3	3-4	4	2-3	2-3	2-3	2	2
0400	3	-	-	3	3-4	-	3	3	3	3	-
0450	3	-	-	3	-	-	4	4	3	-	-
0500	3	3	2	3-4	3	2-3	3	3	3	3	-

**Assessment:** The seriously polluted site on the Clarinbridge was surveyed in late 2008 - it remains in bad ecological status due to Athenry sewage.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0030	Br at Lisdorán	156625	205637	46	GY
0035	Downstream Br S of Cloonkeen	0	0	0	GY
0040	Bridge N. of Ballyboggan	154969	230288	46	GY
0050	Bridge 1.6 km u/s Athenry	151294	229122	46	GY
0200	Athenry: South Bridge	150211	227295	46	GY
0300	Br N Mulpit	148794	226293	46	GY
0400	Whistle Bridge	146986	223067	46	GY
0450	Toberbracken Br	143934	222090	46	GY
0500	Clarin Bridge	141213	220027	46	GY

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0030	65	9	0	100	63	0	18	0	0	0	19
0040	60	13	0	100	56	0	20	0	0	0	24
0050	40	34	0	100	67	0	20	0	0	0	12
0200	27	39	0	100	65	0	19	3	0	0	13
0300	20	48	0	100	69	0	15	3	2	0	11
0400	12	88	0	100	72	2	9	2	6	0	10
0450	10	110	0	100	71	1	7	2	10	0	9
0500	1	115	0	100	71	2	7	1	11	0	9

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

**HYDROMETRIC AREA 30 (Clare (Galway))**

CLARE (GALWAY)

30C01

River and Code : **CLARE (GALWAY)**

30/C/01

Tributary of : Lough Corrib

OS Catchment No: 143

OS Grid Ref of Confluence: M 303 314

Date(s) Surveyed: 22/12/2008

Biological Quality Ratings (Q Values)

Station Nos.	1971	1973	1975	1977	1978	1979	1980	1982	1985	1989	1992	1993	1994	1996	1997	1998	1999	2000	2002	2003	2005	2006	2008
0100	4-5	4	-	4	-	-	4	-	3-4	4	-	3	-	3-4	-	-	-	3-4	-	4	-	3-4	-
0300	-	-	-	-	-	-	5	-	4	4	-	3-4	-	3	-	-	-	4	-	4	-	4	-
0500	5	5	4	4	4	-	4-5	-	4	4	-	4	-	3	-	-	-	4	-	4	-	4	-
0650	3	3	3-4	4	-	4	3-4	3	3	2-3	-	3	-	3	-	-	-	4	-	3-4	-	4	-
0700	3-4	3	3-4	4	-	4	4	4	3	3-4	-	3	-	3	-	-	-	3-4	-	4-5	-	4	-
0800	4	4	4	4	-	4	4	3-4	4	3-4	3-4	3	3-4	4	4	4	3-4	3	3-4	3-4	3-4	3	3-4
0900	-	-	-	-	-	-	4	3-4	3-4	3-4	-	3-4	-	3-4	-	-	-	4	-	4	-	4	-
1000	-	-	-	-	-	-	-	-	-	4	-	4	-	3	-	-	-	4	-	3-4	-	3-4	-
1100	-	-	-	-	-	-	4	-	3-4	4	-	3-4	-	3-4	-	-	-	3	-	4	-	4	-
1200	4	-	-	5	-	-	-	-	3-4	4	-	3	-	3	-	-	-	3-4	-	3-4	-	4	-
1300	-	-	-	-	-	-	4	-	4	4	-	4	-	4	-	-	-	4	-	4	-	4-5	-

**Assessment:** The Clare was surveyed at Corofin Bridge in late 2008. This station has been a European Exchange of Information site for some years. It was of moderate ecological status in December 2008.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br 1.5 km u/s Milltown	141291	263709	39	GY
0300	Fartamore Bridge	139437	258772	39	GY
0500	Ballygaddy Bridge	142020	253774	39	GY
0650	100 m d/s Weir Br (LHS)	141593	252819	39	GY
0700	Cloonmore Br	140827	249846	46	GY
0800	Corrofin Bridge	142705	243204	46	GY
0900	Dalys Br	141533	240374	46	GY
1000	Lackagh Br	141843	236407	46	GY
1100	Cregmore Bridge	141011	232809	46	GY
1200	Claregalway Bridge	137185	233239	46	GY
1300	Curraghmore Bridge	132111	232828	46	GY

*Site Altitude and Upstream Catchment Characteristics (where available):*

<b>Site No.</b>	<b>Alt</b>	<b>Area</b>	<b>Sil</b>	<b>Cal</b>	<b>Pasture</b>	<b>Forestry</b>	<b>Bogs</b>	<b>Urban</b>	<b>Misc Ag.</b>	<b>Water</b>	<b>Other</b>
0100	42	335	0	100	58	1	21	1	14	0	5
0300	37	424	0	100	60	1	19	0	15	0	4
0500	31	453	0	100	61	1	18	1	15	0	4
0650	29	496	0	100	61	1	18	1	15	0	3
0700	27	514	0	100	61	1	18	1	15	0	3
0800	24	683	0	100	61	1	19	1	14	0	3
0900	22	909	0	100	62	1	18	1	14	0	4
1000	20	931	0	100	62	1	17	1	14	0	4
1100	10	976	0	100	63	1	17	1	15	0	4
1200	8	1056	0	100	65	1	15	1	15	0	3
1300	6	1075	0	100	65	1	15	1	15	0	3

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

**HYDROMETRIC AREA 34 (Tubbercurry, Tubbercurry Stream)**

# TUBBERCURRY	34T02
# TUBBERCURRY STREAM	34T03

# indicates rivers having seriously polluted stretches at time of this survey.



River and Code : **TUBBERCURRY**

34/T/02

Tributary of : 34M02 MOY

OS Catchment No: 110

OS Grid Ref of Confluence: G 270 085

Date(s) Surveyed: 11/9/2008

Station Nos.	Biological Quality Ratings (Q Values)																
	1971	1973	1977	1979	1980	1982	1986	1989	1990	1993	1995	1998	2001	2003	2004	2007	2008
0005	-	-	-	-	4	4	4-5	4-5	-	4-5	-	-	-	-	-	-	-
0050	-	-	-	-	1	1-2	2-3	2	1-2	2	2	2-3	2	-	1-2	1-2	2
0100	1/0	1	1	1	2	3	3	-	-	2-3	-	-	-	-	-	-	-
0150	-	-	-	-	-	-	-	3	-	3	-	-	-	-	-	-	-
0200	-	-	-	3	3	3	3-4	3	-	3	3	3	3	3	2-3	3	-

**Assessment:** The Tubbercurry and Tubbercurry Stream (q.v.) are two of the remaining seriously polluted rivers in the country and are surveyed annually. Serious pollution was again noted downstream of Tubbercurry Town in September 2008.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0005	Br N. of Carrowntubber	152157	313820	25	SO
0050	Br 1 km W. of Tubbercurry	151078	311707	25	SO
0100	Br N. of Rue Cross Roads	150280	311600	24	SO
0150	Br N of Tullanaglug	148618	311525	25	SO
0200	Br just u/s Moy River	147608	311425	24	SO

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	72	16	0	100	65	0	13	8	13	0	0
0200	50	22	0	100	73	0	11	6	9	0	0

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **TUBBERCURRY STREAM**

**34/T/03**

Tributary of : 34T02 TUBBERCURRY

OS Catchment No: 110

OS Grid Ref of Confluence: G 514 120

Date(s) Surveyed: 11/9/2008

Station Nos.	Biological Quality Ratings (Q Values)		
	2004	2007	2008
0300	2	-	-
0400	1-2	1-2	2
0500	1-2	-	-

**Assessment:** The Tubbercurry Stream was again seriously polluted due to poorly treated sewage discharges upstream of the existing treatment plant in Tubbercurry.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	N17 Bridge in Tubbercurry	152136	311935	25	SO
0400	At old railway bridge	151965	312030	25	SO
0500	0.1 km d/s old Railway Br	151850	312065	25	SO

**HYDROMETRIC AREA 39 (Maggy's Burn)**

MAGGY'S BURN \*

39M01

River and Code : **MAGGY'S BURN**

39/M/01

Tributary of : Lough Fern

OS Catchment No: 31

OS Grid Ref of Confluence: C 184 247

Date(s) Surveyed: 12/9/2008

Station Nos.	Biological Quality Ratings (Q Values)														
	1973	1977	1979	1981	1985	1988	1989	1990	1991	1996	1998	2001	2004	2007	2008
0080	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-
0100	4-5	4	3	3-4	4	2/0	3/0	3	3	-	-	-	-	-	-
0150	-	-	-	-	-	1/0	1-2	2	2	-	-	-	-	-	-
0200	1	1	1	2	2	1/0	1	1	1-2	-	-	-	-	-	-
0300	2	1	1	3	2-3	1	2	-	2	2	3	2	2	2	2-3

**Assessment:** An improvement to 'poor' status was recorded in the Maggy's Burn in September 2008.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0080	200 m u/s Br in Milford	219460	426791	2	DL
0100	Bridge in Milford	219500	426700	0	DL
0150	D/s Br in Milford (u/s STW)	219252	426489	2	DL
0200	D/s Milford (d/s STW)	218956	426314	2	DL
0300	Br Just u/s Lough Fern	218592	424904	2	DL

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0080	34	3	100	0	47	0	31	2	0	0	20
0150	29	4	100	0	49	0	27	7	0	0	17
0200	27	4	100	0	52	0	23	7	2	0	15
0300	20	9	100	0	51	0	16	4	15	0	14

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

**HYDROMETRIC AREA 40 (Bredagh, Roosky)**

# BREDAGH	40B02
# ROOSKY	40R01

# indicates rivers having seriously polluted stretches at time of this survey.

River and Code : **BREDAGH**  
 Tributary of : Sea - Lough Foyle  
 OS Grid Ref of Confluence: C 611 382  
 Date(s) Surveyed: 12/9/2008

**40/B/02**

OS Catchment No: 13

Station Nos.	Biological Quality Ratings (Q Values)											
	1973	1977	1987	1988	1989	1993	1996	1998	2001	2004	2007	2008
0200	5	5	4-5	-	-	3	4-5	4	4-5	4-5	4-5	-
0300	5	4	4	-	-	-	-	-	-	-	-	-
0400	-	-	2	1	1	1	1	1-2	2	2	2	2

**Assessment:** The Bredagh was once again seriously polluted in Moville when surveyed in September 2008.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Moglass Bridge	258225	442594	3	DL
0300	1 km u/s Moville Bridge	260530	439000	4	DL
0400	Br in Moville	261059	438427	4	DL

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	108	6	100	0	11	0	83	0	2	0	4
0400	7	18	100	0	40	0	49	1	8	0	1

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **ROOSKY**  
 Tributary of : Sea - Lough Foyle  
 OS Grid Ref of Confluence: C 526 326  
 Date(s) Surveyed: 12/9/2008

**40/R/01**

OS Catchment No: 15

Station Nos.	Biological Quality Ratings (Q Values)								
	1987	1988	1993	1996	1998	2001	2004	2007	2008
0100	4	-	3	-	-	-	-	-	-
0200	1-2	2-3	2	-	-	1	1-2	2	2
0300	2	2-3	1/0	1-2	2-3	2	3	2-3	-

**Assessment:** Serious farm pollution was again noted in the upper Roosky River at Station 0200, Mullinroe Bridge.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Third Bridge u/s Lough Foyle	251568	434126	3	DL
0200	Mullinroe Bridge	251710	433704	3	DL
0300	Br u/s Lough Foyle	252553	432716	3	DL

*Site Altitude and Upstream Catchment Characteristics (where available):*

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	8	3	98	2	43	0	37	0	20	0	0

Alt is in metres Area is km<sup>2</sup> and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

## AN GHNÍOMHAIREACHT UM CHAOMHNÚ COMHSHAOIL

Tá an Gníomhaireacht um Chaomhnú Comhshaoil (GCC) freagrach as an gcomhshaoil a chaomhnú agus a fheabhsú mar shócmhainn luachmhar do mhuintir na hÉireann. Táimid tiomanta do dhaoine agus don chomhshaoil a chosaint ó éifeachtaí díobhálacha na radaíochta agus an truaillithe.

## Is féidir obair na Gníomhaireachta a roinnt ina trí phríomhréimse:

**Rialú:** Déanaimid córais éifeachtacha rialaithe agus comhlionta comhshaoil a chur i bhfeidhm chun torthaí maithhe comhshaoil a sholáthar agus chun díriú orthu siúd nach gcloíonn leis na córais sin.

**Eolas:** Soláthraimid sonraí, faisnéis agus measúnú comhshaoil atá ar ardchaighdeán, spriocdhírthe agus tráthúil chun bonn eolais a chur faoin gcinnteoireacht ar gach leibhéal.

**Tacaíocht:** Bimid ag saothrú i gcomhar le grúpaí eile chun tacú le comhshaoil atá glan, táirgiúil agus cosanta go maith, agus le hiompar a chuirfidh le comhshaoil inbhuanaithe.

## Ár bhFreagrachtaí

### Ceadúnú

Déanaimid na gníomhaíochtaí seo a leanas a rialú ionas nach ndéanann siad dochar do shláinte an phobail ná don chomhshaoil:

- saoráidí dramhaíola (*m.sh. láithreáin líonta talún, loisceoirí, stáisiúin aistriúcháin dramhaíola*);
- gníomhaíochtaí tionsclaíocha ar scála mór (*m.sh. déantúsaíocht cógaisíochta, déantúsaíocht stroighne, stáisiúin chumhachta*);
- an diantalmhaíocht (*m.sh. muca, éanlaith*);
- úsáid shrianta agus scaoileadh rialaithe Orgánach Géinmhodhnaithe (*OGM*);
- foinsí radaíochta ianúcháin (*m.sh. trealamh x-gha agus radaiteiripe, foinsí tionsclaíocha*);
- áiseanna móra stórála peitрил;
- scardadh dramhuisce;
- gníomhaíochtaí dumpála ar farraige.

### Forfheidhmiú Náisiúnta i leith Cúrsaí Comhshaoil

- Clár náisiúnta iniúchtaí agus cigireachtaí a dhéanamh gach bliain ar shaoráidí a bhfuil ceadúnas ón nGníomhaireacht acu.
- Maoirseacht a dhéanamh ar fhreagrachtaí cosanta comhshaoil na n-údarás áitiúil.
- Caighdeán an uisce óil, arna sholáthar ag soláthraithe uisce phoiblí, a mhaoirsiú.
- Obair le húdarás áitiúla agus le gníomhaireachtaí eile chun dul i ngleic le coireanna comhshaoil trí chomhordú a dhéanamh ar líonra forfheidhmiúcháin náisiúnta, trí dhírú ar chiontóirí, agus trí mhaoirsiú a dhéanamh ar leasúchán.
- Cur i bhfeidhm rialachán ar nós na Rialachán um Dhramhthrealamh Leictreach agus Leictreonach (DTLL), um Shrian ar Shubstaintí Guaiseacha agus na Rialachán um rialú ar shubstaintí a ídionn an ciseal ózóin.
- An dlí a chur orthu siúd a bhriseann dlí an chomhshaoil agus a dhéanann dochar don chomhshaoil.

### Bainistíocht Uisce

- Monatóireacht agus tuairisciú a dhéanamh ar cháilíocht aibhneacha, lochanna, uisce idirchriosacha agus cósta na hÉireann, agus screamhuisc; leibhéal uisce agus sruthanna aibhneacha a thomhas.
- Comhordú náisiúnta agus maoirsiú a dhéanamh ar an gCreat-Treoir Uisce.
- Monatóireacht agus tuairisciú a dhéanamh ar Cháilíocht an Uisce Snámha.

## Monatóireacht, Anailís agus Tuairisciú ar an gComhshaoil

- Monatóireacht a dhéanamh ar cháilíocht an aeir agus Treoir an AE maidir le hAer Glan don Eoraip (CAFÉ) a chur chun feidhme.
- Tuairisciú neamhspleách le cabhrú le cinnteoireacht an rialtais náisiúnta agus na n-údarás áitiúil (*m.sh. tuairisciú tréimhsiúil ar staid Chomhshaoil na hÉireann agus Tuarascálacha ar Tháscairí*).

## Rialú Astaíochtaí na nGás Ceaptha Teasa in Éirinn

- Fardail agus réamh-mheastacháin na hÉireann maidir le gáis ceaptha teasa a ullmhú.
- An Treoir maidir le Trádáil Astaíochtaí a chur chun feidhme i gcomhair breis agus 100 de na táirgeoirí dé-ocsaíde carbóin is mó in Éirinn.

## Taighde agus Forbairt Comhshaoil

- Taighde comhshaoil a chistiú chun brúnna a shainathint, bonn eolais a chur faoi bheartais, agus réitigh a sholáthar i réimsí na haeráide, an uisce agus na hinbhuanaitheachta.

## Measúnacht Straitéiseach Timpeallachta

- Measúnacht a dhéanamh ar thionchar pleananna agus clár beartaithe ar an gcomhshaoil in Éirinn (*m.sh. mórfheananna forbartha*).

## Cosaint Raideolaíoch

- Monatóireacht a dhéanamh ar leibhéal radaíochta, measúnacht a dhéanamh ar nochtadh mhuintir na hÉireann don radaíocht ianúcháin.
- Cabhrú le pleananna náisiúnta a fhorbairt le haghaidh éigeandálaí ag eascairt as tairmí núicléacha.
- Monatóireacht a dhéanamh ar fhorbairtí thar lear a bhaineann le saoráidí núicléacha agus leis an tsábháilteacht raideolaíochta.
- Sainseirbhísí cosanta ar an radaíocht a sholáthar, nó maoirsiú a dhéanamh ar sholáthar na seirbhísí sin.

## Treoir, Faisnéis Inrochtana agus Oideachas

- Comhairle agus treoir a chur ar fáil d'earnáil na tionsclaíochta agus don phobal maidir le hábhair a bhaineann le caomhnú an chomhshaoil agus leis an gcosaint raideolaíoch.
- Faisnéis thráthúil ar an gcomhshaoil ar a bhfuil fáil éasca a chur ar fáil chun rannpháirtíocht an phobail a spreagadh sa chinn-teoireacht i ndáil leis an gcomhshaoil (*m.sh. Timpeall an Tí, léarscáileanna radóin*).
- Comhairle a chur ar fáil don Rialtas maidir le hábhair a bhaineann leis an tsábháilteacht raideolaíoch agus le cúrsaí práinnfhreagartha.
- Plean Náisiúnta Bainistíochta Dramhaíola Guaisí a fhorbairt chun dramhaíl ghuaiseach a chosaint agus a bhainistiú.

## Múscailt Feasachta agus Athrú Iompraíochta

- Feasacht chomhshaoil níos fearr a ghiniúint agus dul i bhfeidhm ar athrú iompraíochta dearfach trí thacú le gnóthais, le pobail agus le teaghlaigh a bheith níos éifeachtúla ar acmhainní.
- Tástáil le haghaidh radóin a chur chun cinn i dtithe agus in ionaid oibre, agus gníomhartha leasúcháin a spreagadh nuair is gá.

## Bainistíocht agus struchtúr na Gníomhaireachta um Chaomhnú Comhshaoil

Tá an ghníomhaíocht á bainistiú ag Bord Iáinimseartha, ar a bhfuil Ard-Stiúrthóir agus cúigear Stiúrthóirí. Déantar an obair ar fud cúig cinn d'Oifigí:

- An Oifig um Inmharthanacht Comhshaoil
- An Oifig Forfheidhmithe i leith cúrsaí Comhshaoil
- An Oifig um Fianaise is Measúnú
- An Oifig um Cosaint Raideolaíoch
- An Oifig Cumarsáide agus Seirbhísí Corparáideacha

Tá Coiste Comhairleach ag an nGníomhaireacht le cabhrú léi. Tá dáréag comhaltáí air agus tagann siad le chéile go rialta le plé a dhéanamh ar ábhair inné agus le comhairle a chur ar an mBord.



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