

Significant Water Management Issues

# Owenkillew Local Management Area Action Plan and Update

December 2013

- These LMA action plans are working documents which will evolve as new projects are committed to over time during the River Basin Planning cycle
- This summary provides an update on operational actions in the LMA. Many actions are based on implementation meetings with Upper Foyle Catchment Stakeholder Group members in 2010/2011
- If you, as an individual or organisation, can input additional information on actions or projects in the Owenkillev Action Plan please contact [Steven.McDowell@doeni.gov.uk](mailto:Steven.McDowell@doeni.gov.uk) or telephone 028 92 623114

|   | LMA Action  | Progress Report  |
|---|---|--|
| 1 | Promote public participation by organising two Catchment Stakeholder Group meetings per year to provide an open forum for discussion on water issues and encourage involvement in developing and implementing the Local Management Area Plan. | The Autumn meeting was on 14 <sup>th</sup> October 2013 at 7pm in Loughmacrory, Omagh. Presentations and minutes of meetings can be found at <a href="http://www.doeni.gov.uk/niea/water-home/wfd/public_partic_3/catchment_stakeholder_groups/upper_foyle.htm">http://www.doeni.gov.uk/niea/water-home/wfd/public_partic_3/catchment_stakeholder_groups/upper_foyle.htm</a>   |
| 2 | Promote public participation and raise awareness of catchment management issues by release of relevant press articles and web publication of LMA e-zines  | Updated on a regular basis on the web site and through local newspapers re local events.   |
| 3 | Promote public participation and encourage local projects through NIEA's Water Quality Improvement Grant Scheme   | Owenkillev Development Company Ltd (ODCL), in conjunction with Dalradian Gold Limited (DGL), has been successful in securing a grant from The Water Quality Improvement Grant Scheme.<br>Funding is being used to install fencing in some areas along the Owenkillev and educational programmes are being developed with land owners. Engaging with local primary school children from St. Patrick's Primary School and Gortin Primary School, will receive a talk from staff at the Ballinderry Hatchery and then be able to follow up with a visit to the Hatchery.  |
| 4 | Highlight external funding opportunities for water management projects to local partners.   | Stakeholders informed about NIEA's Water Quality Improvement Grant Scheme <a href="http://www.doeni.gov.uk/niea/water-home/wfd/water_quality_improvement_grant.htm">http://www.doeni.gov.uk/niea/water-home/wfd/water_quality_improvement_grant.htm</a><br><br>Minister Mark Durkan announced Challenge Fund on 18 <sup>th</sup> October 2013. Provides funding for communities and organisations to develop local environmental projects. £1.2 million being funded (NIEA and Forest Service) <a href="http://www.nienviromentlink.org/projects/nieachallengefund.php">http://www.nienviromentlink.org/projects/nieachallengefund.php</a> |

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|---|--|---|
| 5 | Carry out compliance assessment at industrial consented sites, WWTW and cross-compliance inspections at selected farms within the Owenkillev LMA.  | LMA Cross Compliance inspections by WMU Agricultural Regulations Team<br>In 2011 there were no breaches.<br>On-going monitoring and compliance.   |
| 6 | Assess the possibility of designating this water body as an Area of Special Scientific Interest.   | The Owenreagh is a proposed ASSI for the features of Freshwater Pearl Mussel <i>Margaritifera margaritifera</i> . It is anticipated that this will be declared an ASSI 2013/2014.   |
|   | <p>Develop Action Plans for Designated for designated Freshwater Pearl Mussel Special Areas of Conservation</p> <p>Assessment of river conditions through research and river surveys to locate sources of sediment</p> <p>Consider site restoration and protection methods to reduce sedimentation and improve habitat to improve Freshwater Pearl mussel conditions and enhance recruitment</p> | <p><u>Status update September 2012 – INTERREG IVA</u></p> <p>Catchment surveys have been completed in all 3 FPM SAC catchments. Trialling of measures in relation to forestry, agriculture and on site wastewater systems is ongoing in selected catchments.</p> <p>Sediment traps have been installed</p> <p>Household survey has taken place in relation to FPM awareness and water usage. Draft plan strategies have been prepared for the Swanlinbar, Owenkillev and Ballinderry Catchments.</p> <p>Liaison with stakeholders is ongoing using a range of media and engagement options.</p> |
| 7 | Complete the phosphorus nutrient budget work for Northern Ireland to establish nutrient inputs from different sectors.   | Nutrient budgets are being analysed alongside SIMCAT (SIMulation of the water quality of CATchments) models developed to represent the behaviour of flow and pollutants in rivers. This will inform actions to address diffuse and point source nutrient inputs to the water environment.   |
| 8 | Create an inventory of physical structures within the river channel and bank structures to ensure required standards are met   | NIEA staff have been trained in the use of this tool and are beginning to carry out assessments. If you are aware of any barriers in the Derg and Mourne and would like to have this assessed using the UK Fish Passability Tool please contact your Catchment Officer.   |
| 9 | Review of groundwater abstraction and planning applications where necessary.   | On-going. The groundwater team is a regular consultee on groundwater abstractions and planning applications for all of Northern Ireland.  |

|    |   |   |
|----|---|---|
| 10 | Develop leaflets and articles to promote effective farm nutrient and waste Management.  | <p>Pesticide Working Group – NIW, UFU, DARD, CAFRE, AFBI, Rivers Agency, Loughs Agency and NIEA and they raise awareness of the problem with pesticide detections in Drinking Water Catchments.</p> <p>Through the 'Pesticide Working Group' have developed a Pesticide flyer. NIW published 'stop and think about the water you drink' under the same group. UFU sourced pesticide awareness leaflets from the Voluntary Initiative.</p> <p>'Landowner's Awareness – Improving Water Quality in your local area' leaflet developed in conjunction with DARD, UFU and Loughs Agency.</p> <p>NIEA attended the Horticultural Show at Greenmount to promote Pesticide issues.</p> <p>The Water Catchment Partnership was established NIW, UFU, DARD, CAFRE, The Voluntary Initiative, DOE and NIEA to proactively work together to promote and raise awareness of best practice when using pesticides in the garden or on the farm.</p> <p>Attended agricultural shows – Omagh and Clogher Valley.</p>  |
| 11 | Raise awareness and promote the benefits of effective farm nutrient and waste management.   | <p>All applicants to DARD Agri-Environment Schemes receive farm waste management advice as part of their application to the scheme. DARD has produced a 'Code of Good Agricultural Practice' which contains practical management advice on how farm wastes can be collected, stored and spread with minimal risk to the environment. Production of 'Improving Water Quality' leaflet for Landowners.</p> <p>This leaflet has been developed jointly with Loughs Agency, UFU and DARD to raise awareness amongst the agricultural sector. The issues were initially raised through the implementation meetings eg gravel removal, river litter.</p> <p>DARD has developed an agri-environment training course for farmers dealing with farm wastes and nutrient management planning.</p> <p>Water Framework Directive awareness talk given to CAFRE students in April 2011. Farm Nutrient and Waste Management Planning talk given to CAFRE students April 2012.</p> <p>Joint leaflet published.</p> <p>'Water Quality Plans in Action' article published in Farming Life Oct 2012</p> |
| 12 | Encourage riparian zone management with an aim to improve biodiversity and minimise sedimentation through practical management measures on farms. | <p>A measure within the Nitrates Action Programme is that all farms must carry out crop and soil management to minimise soil erosion and nutrient runoff. This is verified during cross-compliance visits.</p>  |
| 13 | Promote best practice in the use of pesticides on farms   | <p>NIEA attended the Horticultural Show at Greenmount to promote Pesticide issues.</p>  |

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| 14 | Carry out fish monitoring and assessment for annual report on catchment status and WFD fish monitoring programme.   | Loughs Agency – completed on an annual basis<br><a href="http://www.loughs-agency.org/fs/doc/publications/owenkillow-river-and-owenreagh-east-catchment-status-report-2011.pdf">http://www.loughs-agency.org/fs/doc/publications/owenkillow-river-and-owenreagh-east-catchment-status-report-2011.pdf</a>  |
| 15 | Carry out pre and post fish habitat improvement works survey where funding is committed for works.  | Ongoing when funding available   |
| 16 | Continue regulatory investigation and action against unlicensed activities impacting on fish populations and habitats   | Loughs Agency continue to investigate gravel removal at sites Broughderg , Glenelly River, Glenknock, OKW N'stewart and OKW in the catchment   |
| 17 | Assess forestry operations, felling and redesign plans to ensure appropriate measures are in place to mitigate risk to adjacent watercourses.                                 | Discussions with Forest Service are ongoing through regular meetings and appropriate measures are incorporated into felling operations to ensure minimal risk to adjacent watercourses.  |
| 18 | Support pollution prevention campaigns such as 'Reduce Reuse Recycle', 'Bag It & Bin It', 'Stop and Think (Not Down the Sink)', 'Stop and think (about the water you drink)'. | NIEA incorporates the 'Reduce Reuse Recycle', 'Bag It & Bin It', 'Stop and Think (Not down the Sink)' messages in our information leaflets and promotes these philosophies during engagement with the public.<br>NIEA in conjunction with Northern Ireland Water, have produced an information leaflet to highlight the dangers of pesticides around waterways and the potential impacts on wildlife and drinking water.<br>These messages are promoted at events and functions. |
| 19 | Review Rivers Agency's annual watercourse maintenance program   | Quarterly meetings with Rivers Agency and DCAL to discuss maintenance programme and any other projects   |

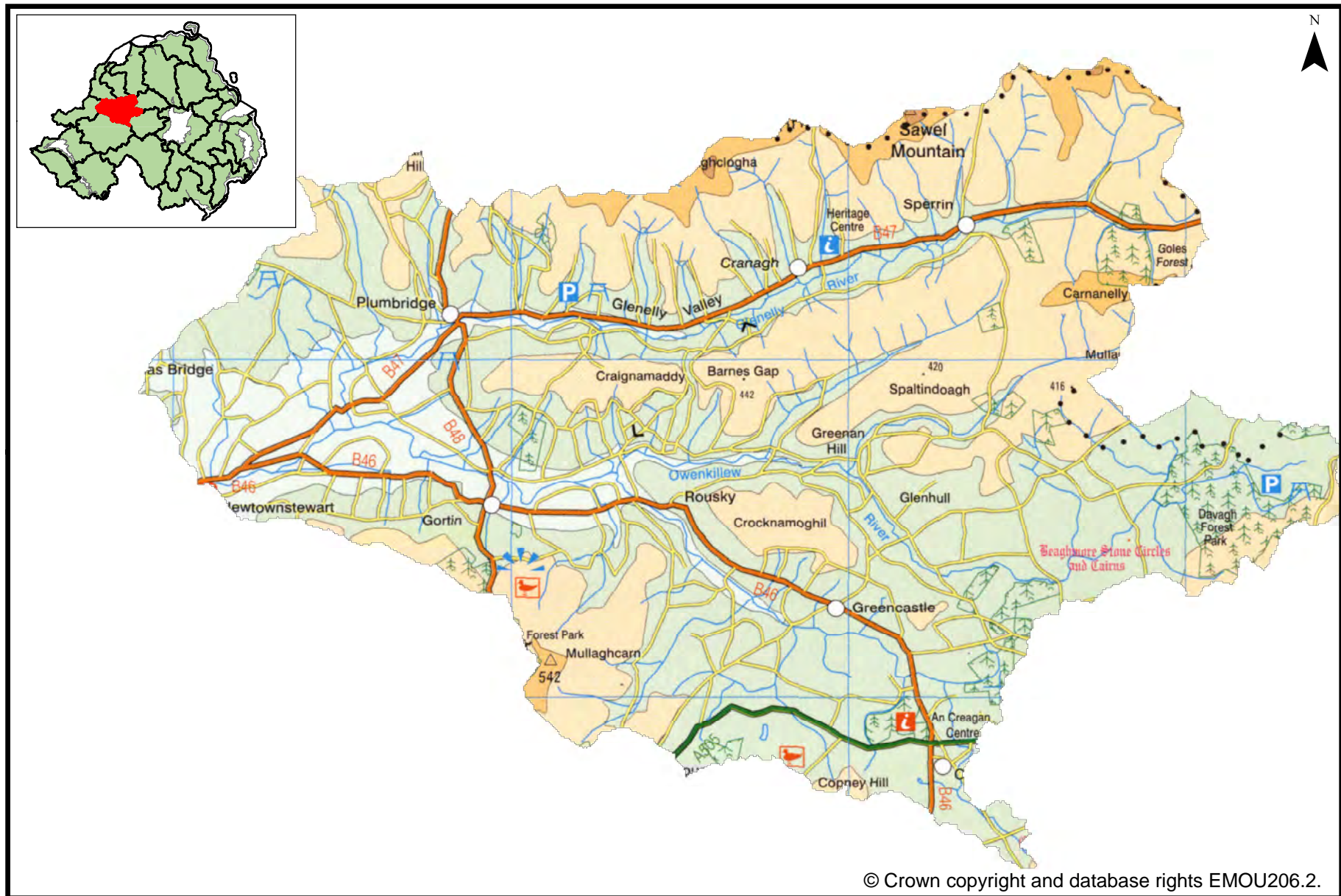
|    |   |  |
|----|---|--|
| 20 | Promote public participation by supporting local community events | <ul style="list-style-type: none"> <li>• Owenkillew Wetlands and Forests Day – 05/02/2011</li> <li>• Loughs Agency Fair Newtownstewart – 21-22/05/2011</li> <li>• Beneath the Burn – Killyclogher – 29/08/2011</li> <li>• Conserving the Glenelly River Cleanup – 20/11/2011</li> <li>• Loughmacrory Winter Fair – 26/11/2011</li> <li>• Greenmount Centenary Show Sat 16<sup>th</sup> June 2012 – Greenmount</li> <li>• Clipper Event Sat 7<sup>th</sup> July 2012 – Londonderry City Council</li> <li>• Staff also attended The Balmoral Show 16<sup>th</sup>-18<sup>th</sup> May 2012 and Horticultural Show Greenmount 19<sup>th</sup> Sept 2012.</li> <li>•</li> </ul> <p>All events attended were very successful. Positive feedback from the public re Action Plans, displays, Good/Bad bugs as indicator species of pollution.</p> <ul style="list-style-type: none"> <li>• Staff also attended The Balmoral Show 15<sup>th</sup> July 2013</li> <li>• Clogher Valley Show 31/07/2013 – Raising awareness of pesticides in our catchment and drinking water.</li> <li>• “Source of Denet to Mouth” – awareness event publicity of Denet angling group, walk and talk on litter.</li> </ul> |
|----|---|--|

## **OWENKILLEW** Local Management Area





Map 1: Owenkillew Local Management Area



## **Introduction**

River Basin Management Plans were published in December 2009. The plans describe where the water environment needs to be protected or improved, the timeframe to make these improvements and how that can be achieved. The plans will be implemented through Local Management Areas (LMAs) during the 2010 to 2015 planning cycle. This Owenkillev LMA Action Plan is one of a series of action plans that are being developed for the 26 LMAs across the Neagh Bann, North Western and North Eastern River Basin Districts. The action plan details local measures identified to improve the water environment.

## **River Basin Planning**

NIEA, in partnership with other Departments and Agencies, have developed a Programme of Measures to improve the water environment and to protect it from deterioration. There are also a number of existing plans and programmes that contribute to the management of our waters. Further details on the Programme of Measures, and the policy, legal and financial tools used to implement it, can be found on the North Western River Basin District Programme of Measures section on the NIEA website at:

[http://www.doeni.gov.uk/niea/water-home/wfd/north\\_western\\_rbp/nw-pom.htm](http://www.doeni.gov.uk/niea/water-home/wfd/north_western_rbp/nw-pom.htm)

## **Owenkillev Local Management Area**

The Owenkillev LMA (Map 1) is in the North Western River Basin District and covers an area of approximately 454 km<sup>2</sup>. Several significant rivers are present in this LMA – Owenkillev, Glenelly, Owenreagh and Broughderg Burn. The main Owenkillev River rises in Davagh Forest and flows westwards, forming part of the Lough Foyle system. There are no large towns in the area but there are numerous small villages such as Plumbridge, Gortin and Greencastle. Improved grassland predominates the land usage in the west and along the Glenelly Valley and Owenkillev River. The upland area of the Sperrins is predominantly acid grass, heath and peat. The Owenkillev LMA is enveloped almost completely within the Sperrin Area of Outstanding Natural Beauty.

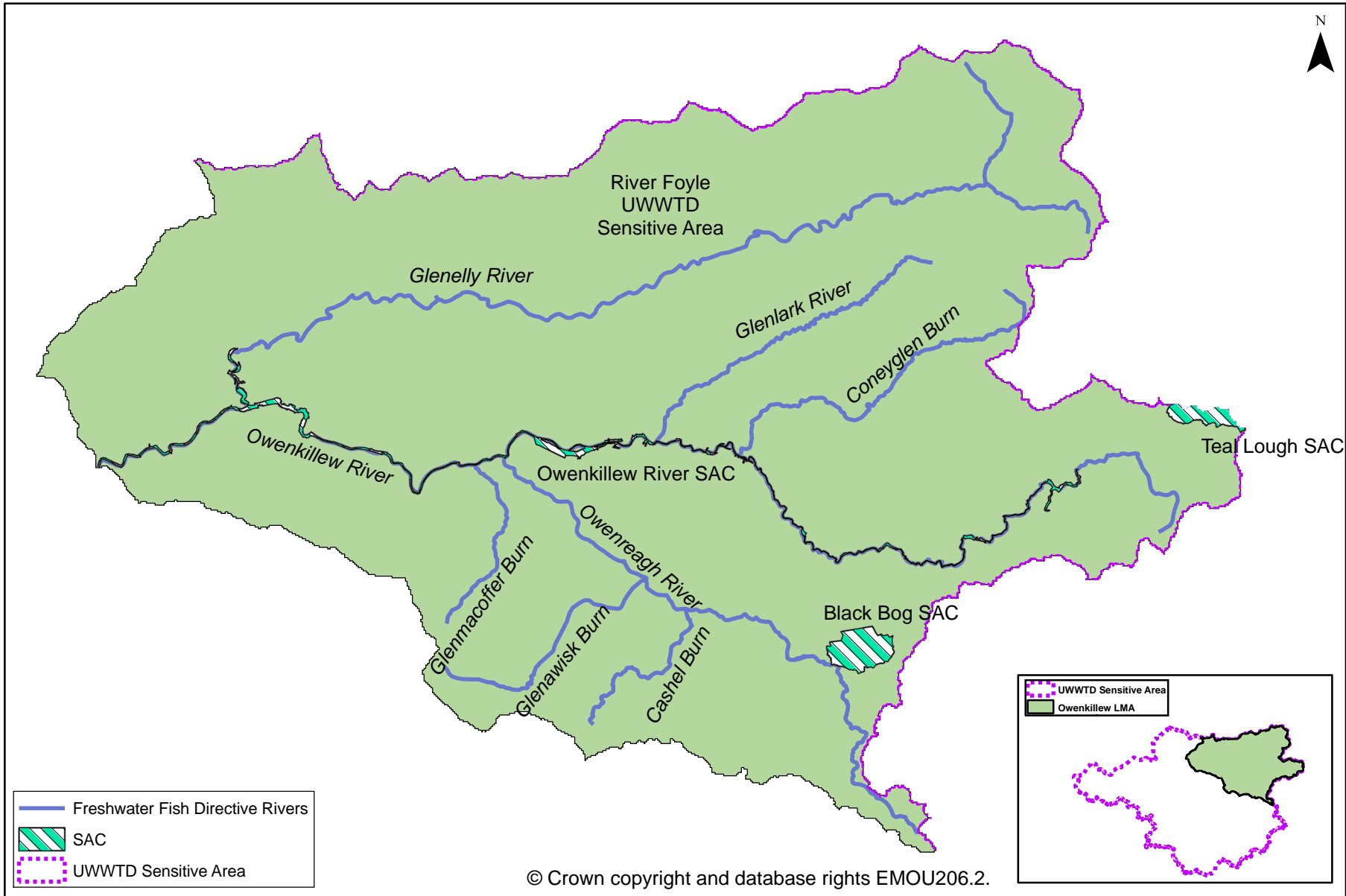
## Protected areas in Owenkillew LMA

The Owenkillew LMA supports important habitats and wildlife. These areas have been designated under European Directives and require special protection. The protected areas are summarised in Table 1 and shown in Map 2.

**Table 1: Protected Areas in the Owenkillew LMA**

| Protected Area Type   | Location   |
|---|--|
| <b>Waters used for the abstraction of drinking water (drinking water protected areas)</b>   | There are 2 drinking water protected rivers<br><br>There is 1 drinking water protected groundwater   |
| <b>Areas designed to protect economically significant aquatic species</b><br>Freshwater Fish Directive (78/659/EEC)   | There are 152 km of rivers identified under the Freshwater Fish Directive, all designated as salmonid.   |
| Shellfish Waters Directive (79/923/EEC)   | There are no designated shellfish waters   |
| <b>Bathing Waters</b><br>These are bathing waters identified under the Bathing Water Directive (76/160/EEC)   | There are no identified bathing waters   |
| <b>Nutrient Sensitive Areas</b><br>Areas designated as sensitive under the Urban Waste Water Treatment Directive (91/271/EEC) and the Nitrates Directive (91/676/EEC)   | There is 1 Urban Waste Water Treatment Directive sensitive area; River Foyle<br><br>A total territory approach has been adopted in Northern Ireland for the Nitrates Directive |
| <b>Areas designated for the protection of habitats or species (Natura 2000 sites)</b><br>These are areas designated for the protection of habitats or species where the maintenance or improvement of the status of water is an important factor in their protection.<br><br>Habitats Directive (92/43/EEC) | There are 4 water dependent Special Areas of Conservation (SAC); Owenkillew River, River Foyle and Tributaries, Teal Lough and Black Bog.                                      |
| Birds Directive (79/409/EEC)  | There are no water dependent Special Protection Areas (SPA)  |

Map 2: Protected Areas in the Owenkillev LMA

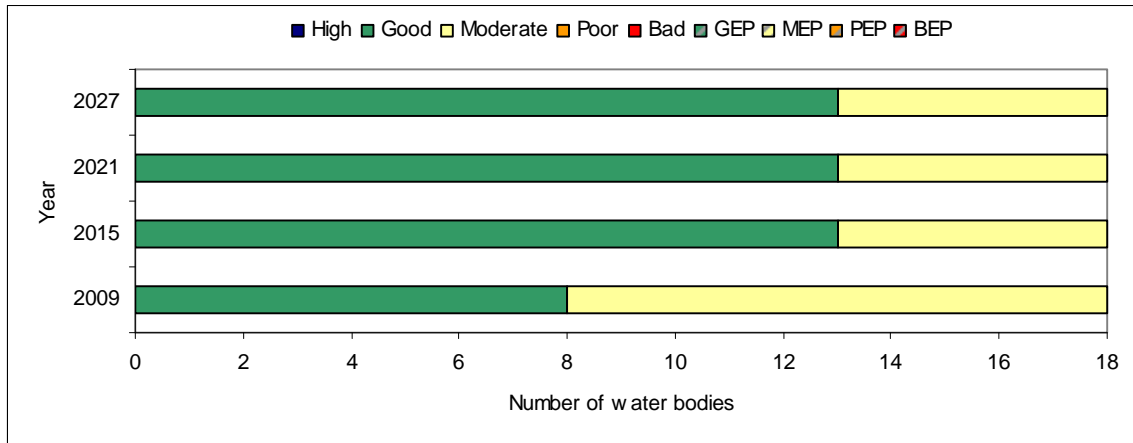


## What improvements do we plan to achieve?

### Surface Waters

The current status (as published in December 2009) and environmental objectives for surface waters (rivers) are shown in Figure 1. We aim to achieve good status or better in 72.2% of our surface waters by 2015.

**Figure 1: Current status and proposed objectives for surface waters in Owenkillew LMA**



### Groundwater

There is 1 groundwater body within the Owenkillew LMA; Gortin. It has been classified as good for both quantitative and chemical status. We aim to maintain good status in this groundwater body.

### Action Plan<sup>1</sup>

The current status and environmental objectives for each water body within the Owenkillew LMA are summarised in Table 2. The Map Reference column can be used to identify the water bodies shown in Map 3. The water body map reference numbers are also shown in brackets after the water body names used later in the document. The planned actions for water bodies within the Owenkillew LMA are set out in the next section of this document.

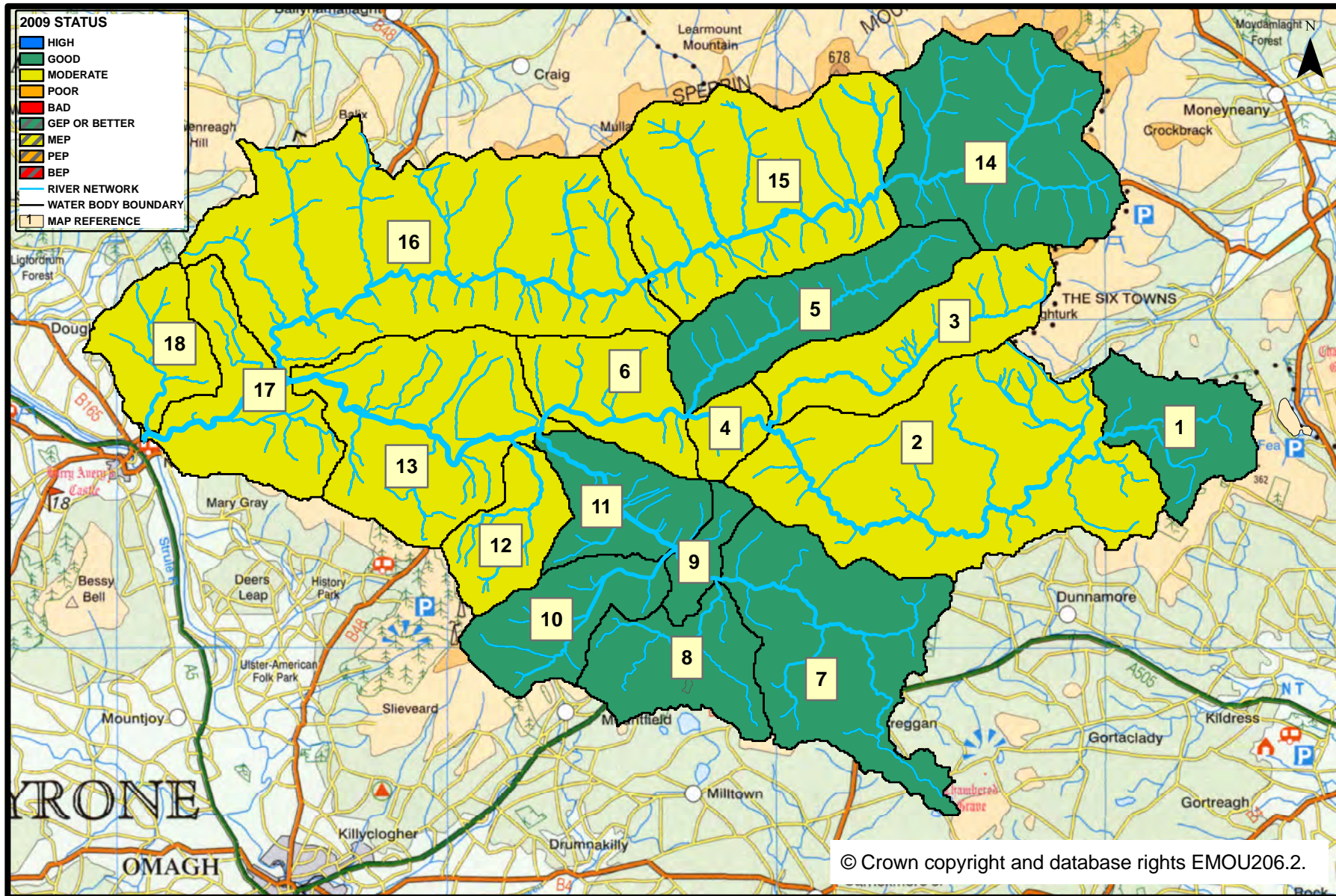
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<sup>1</sup> A table of abbreviations is available at the end of this document

**Table 2: Summary of current status and environmental objectives**

| <b>Map Reference</b> | <b>Water Body Code</b> | <b>Water Body Name</b>       | <b>2009 Status</b> | <b>2015 Objective</b> | <b>Page number</b> |
|----------------------|------------------------|------------------------------|--------------------|-----------------------|--------------------|
| 1                    | UKGBNI1NW010102081     | Davagh Water                 | Good               | Good                  | 11                 |
| 2                    | UKGBNI1NW010102086     | Broughderg Burn              | Moderate           | Moderate              | 13                 |
| 3                    | UKGBNI1NW010102085     | Coneyglen Burn               | Moderate           | Good                  | 17                 |
| 4                    | UKGBNI1NW010102026     | Owenkillew River             | Moderate           | Moderate              | 19                 |
| 5                    | UKGBNI1NW010102025     | Glenlark River               | Good               | Good                  | 21                 |
| 6                    | UKGBNI1NW010102011     | Owenkillew River             | Moderate           | Moderate              | 23                 |
| 7                    | UKGBNI1NW010102091     | Owenreagh River              | Good               | Good                  | 27                 |
| 8                    | UKGBNI1NW010102024     | Cashel Burn                  | Good               | Good                  | 29                 |
| 9                    | UKGBNI1NW010102038     | Owenreagh River              | Good               | Good                  | 31                 |
| 10                   | UKGBNI1NW010102023     | Glenawisk Burn               | Good               | Good                  | 33                 |
| 11                   | UKGBNI1NW010102022     | Owenreagh River              | Good               | Good                  | 35                 |
| 12                   | UKGBNI1NW010102043     | Glenmaccoffer Burn           | Moderate           | Good                  | 37                 |
| 13                   | UKGBNI1NW010102027     | Owenkillew River<br>Gortin   | Moderate           | Moderate              | 39                 |
| 14                   | UKGBNI1NW010102083     | Glenelly River               | Good               | Good                  | 41                 |
| 15                   | UKGBNI1NW010102048     | Glenelly River               | Moderate           | Good                  | 43                 |
| 16                   | UKGBNI1NW010102073     | Glenelly River               | Moderate           | Good                  | 47                 |
| 17                   | UKGBNI1NW010102028     | Owenkillew<br>Newtownstewart | Moderate           | Moderate              | 49                 |
| 18                   | UKGBNI1NW010102096     | Glenknock River              | Moderate           | Good                  | 51                 |

Map 3: Current status of surface water bodies in the Owenkillew LMA



## Generic Actions applied throughout the Local Management Area.

| Action to be taken  | Action to be taken by | Make operational by | Water body types |
|---|-----------------------|---------------------|------------------|
| Organise two Catchment Stakeholder Group meetings per year to provide an open forum for discussion on water issues and encourage involvement in developing and implementing the Local Management Area Plan. | DOE NIEA              | Ongoing             | All              |
| Raise awareness of catchment management issues by release of relevant press articles and web publication of LMA e-zine. Support local community events.   | DOE NIEA              | 2010                | All              |
| Promote and encourage local projects through WATER Environment Community awards.  | DOE NIEA              | 2010                | All              |
| Highlight external funding opportunities for water management projects to local partners.   | DOE NIEA              | Ongoing             | All              |
| Promote the NIEA Water Pollution Hotline through increased advertising, promotion and waterside signage.  | DOE NIEA              | 2010                | Rivers, Lakes    |

## Specific Actions applied throughout the Local Management Area where status or ecological potential is less than good.

| Problem  | Solution   |                                       |                     |                  |
|--|--|---------------------------------------|---------------------|------------------|
| Failing Element  | Action to be taken   | Action to be taken by                 | Make operational by | Water body types |
| Pearl Mussel, Fish, Invertebrates, Zinc, Copper, Macrophytes | Create an inventory of physical river channel and bank structures of water bodies in the LMA.  | Loughs Agency, NIEA, Angling clubs    | 2011                | Rivers, Lakes    |
|  | Support pollution prevention campaigns such as 'Reduce Reuse Recycle', 'Bag It & Bin It', 'Stop and Think (Not Down the Sink)'.  | DOE NIEA                              | Ongoing             | All              |
|  | Work with and support local Stakeholders in raising awareness of environmental issues and projects. Seek to identify solutions to water management problems and develop and promote the LMA Action Plan. | DOE NIEA                              | 2010                | All              |
|  | Promote the control of invasive alien species on farmland  | DARD Countryside Management Branch    | Ongoing             | Rivers, Lakes    |
|  | Encourage riparian zone management with an aim to improve biodiversity and minimise sedimentation through practical management measures on farms   | DARD Countryside Management Branch    | Ongoing             | Rivers           |
|  | Develop leaflets and articles to promote effective farm nutrient and waste management  | DOE NIEA, DARD Countryside Management | 2010                | All              |
|  | Raise awareness and promote the benefits of effective farm nutrient and waste management   | DARD Countryside Management Branch    | 2010                | All              |










|   |          |      |               |
|---|----------|------|---------------|
| Collate existing information on location of aquatic invasive alien species. | DOE NIEA | 2011 | All           |
| Review River's Agency maintenance program                                   | DOE NIEA | 2010 | Rivers, Lakes |
| Complete the phosphorus nutrient budget work for Northern Ireland           | AFBI     | 2011 | All           |
| Review the relevance of nutrient budget in the context of this LMA.         | DOE NIEA | 2012 | All           |



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**Water body name:** Davagh Water  
**Water body identification code:** UKGBNI1NW010102081  
**Catchment stakeholder group:** Upper Foyle  
**Local management area:** Owenkillew  
**2015 Objective:** Good Status  
**2021 Objective:** Good Status  
**2027 Objective:** Good Status

**The type of this water body is:** Alkalinity 10-50 (as mg/l of CaCO<sub>3</sub>)  
**2005 risk assessment:** 1b - Likely to be at risk

**Current overall status:** Good   
 ( Confidence in overall status: Medium )

Benthic invertebrates: High   
 Macrophytes: High   
 Dissolved oxygen: High   
 Soluble reactive phosphorus: Good   
 pH: High   
 Ammonia: High 

Biochemical oxygen demand\*: High   
 Temperature\*: High 

Hydrological regime: High   
 Morphological conditions: Moderate 

Dissolved copper: Good   
 Total zinc: Good 

\* This element does not contribute to overall classification.

For more information on the classification process see: [http://www.ni-environment.gov.uk/water-home/wfd/north\\_western\\_rbp/nw-riverslakes.htm](http://www.ni-environment.gov.uk/water-home/wfd/north_western_rbp/nw-riverslakes.htm)


**Water body name:** Davagh Water (1) #  
**Water body identification code:** UKGBNI1NW010102081  
**2009 status:** Good  
**2015 Objective:** Good  
**Upstream water bodies:**  
**Downstream water body:** Broughderg Burn (2)  
 ( UKGBNI1NW010102086)









| Problem         | Solution   |                       |                     |
|-----------------|--|-----------------------|---------------------|
| Failing Element | Action to be taken   | Action to be taken by | Make operational by |
|                 | 1 Investigate impact of forestry operations in the Davagh Water waterbody. Ascertain and review felling plans and ensure appropriate measures are in place to mitigate risks from felling. | DARD Forest Service   | 2011                |
|                 | 2 Maintain current regulatory controls, monitoring existing measures in order to maintain the good status of this waterbody  | All                   | Ongoing             |
|                 | <a href="#">A number of catchment wide actions also apply to this water body. These can be found on Page 8.</a>  |                       |                     |



# number in brackets refers to Map 3.

**Water body name:** Broughderg Burn  
**Water body identification code:** UKGBNI1NW010102086  
**Catchment stakeholder group:** Upper Foyle  
**Local management area:** Owenkillew  
**2015 Objective:** Moderate Status  
**2021 Objective:** Moderate Status  
**2027 Objective:** Moderate Status












**The type of this water body is:** Alkalinity 10-50 (as mg/l of CaCO<sub>3</sub>)  
**2005 risk assessment:** 1a - At risk

**Current overall status:** Moderate   
 ( Confidence in overall status: High )

Benthic invertebrates: Good   
 Macrophytes: High   
 Phytobenthos: High   
 Pearl mussel: Moderate   
 Dissolved oxygen: High   
 Soluble reactive phosphorus: High   
 pH: High   
 Ammonia: High 

Biochemical oxygen demand\*: High   
 Temperature\*: High 

Hydrological regime: High 

Atrazine: Good   
 Chlorfenvinphos: Good   
 Chlorpyrifos: Good   
 Dissolved copper: Good   
 Diazinon: Good   
 Fenitrothion: Good   
 Malathion: Good   
 Phenol: Good   
 Simazine: Good   
 Triazaphos: Good   
 Total zinc: Good 

\* This element does not contribute to overall classification.

For more information on the classification process see: [http://www.ni-environment.gov.uk/water-home/wfd/north\\_western\\_rbp/nw-riverslakes.htm](http://www.ni-environment.gov.uk/water-home/wfd/north_western_rbp/nw-riverslakes.htm)

**Water body name:** Broughderg Burn (2) #  
**Water body identification code:** UKGBNI1NW010102086  
**2009 status:** Moderate  
**2015 Objective:** Moderate  
**Upstream water bodies:** Davagh Water (1) ( UKGBNI1NW010102081)  
**Downstream water body:** Owenkillew River (4)  
 ( UKGBNI1NW010102026)

| Problem         | Solution           |  |                                    |         |
|-----------------|--------------------|--|------------------------------------|---------|
| Failing Element | Action to be taken | Action to be taken by  | Make operational by                |         |
| Pearl Mussel    | 1                  | Assessment of river conditions through research and river surveys to locate sources of sediment  | INTERREG IVA                       | 2011    |
|                 | 2                  | Consider site restoration and protection methods to reduce sedimentation and improve habitat.  | INTERREG IVA                       | 2011    |
|                 | 3                  | Carry out Broughderg Burn restoration project  | Loughs Agency                      | 2010    |
|                 | 4                  | Develop action plans for designated Freshwater Pearl Mussel Special Areas of Conservation  | INTERREG IVA                       | 2011    |
|                 | 5                  | Identify river remedies and possible options to improve Freshwater Pearl Mussel conditions and enhance recruitment   | INTERREG IVA                       | 2011    |
|                 | 6                  | Assess sources of organic pollution including agriculture, NIW intermittent discharges, WWTW, sewage pumping stations and septic tanks (domestic and private).                               | DOE NIEA                           | 2010    |
|                 | 7                  | Investigate impact of forestry operations in the Broughderg Burn waterbody. Ascertain and review felling plans and ensure appropriate measures are in place to mitigate risks from felling.  | DARD Forest Service                | 2011    |
|                 | 8                  | Continue to monitor fish populations and investigate the feasibility of habitat improvement as required  | Loughs Agency                      | Ongoing |
|                 | 9                  | Continue regulatory investigation and action against unlicensed activities impacting on fish populations and habitats  | Loughs Agency                      | Ongoing |
|                 | 10                 | Investigate possibility of creating buffer zones and investigate the feasibility of carrying out river bank stabilisation work to reduce sediment release and cattle poaching.               | Loughs Agency, DOE NIEA            | 2011    |
|                 | 11                 | Conduct local management area investigative surveys to assess benthic invertebrates  | DOE NIEA                           | 2010    |
|                 | 12                 | Investigate agricultural practices in the catchment through river walks and analysis of agricultural pollution incidents and cross compliance data and carry out site visits where necessary | DOE NIEA                           | 2010    |
|                 | 13                 | Raise awareness of the issue of pesticide use and disposal   | DOE NIEA                           | 2011    |
|                 | 14                 | Promote best practice in the use of pesticides on farms  | DARD Countryside Management Branch | 2011    |
|                 | 15                 | Assess significance of sheep dip usage and review groundwater authorisations where appropriate.  | DOE NIEA                           | 2011    |

|  |    |   |               |      |
|--|----|---|---------------|------|
|  | 16 | Targeted education, advice and regulatory action to prevent pollution and protect the water environment         | DOE NIEA      | 2011 |
|  | 17 | Monitor fish populations at selected sites  | Loughs Agency | 2010 |
|  | 18 | Carryout Rapid Hydro morphology Assessment Technique (RHAT) survey to assess morphological impacts              | DOE NIEA      | 2010 |
|  |    | <a href="#">A number of catchment wide actions also apply to this water body. These can be found on Page 8.</a> |               |      |


# number in brackets refers to Map 3.









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|  |                    |
|--|--------------------|
| <b>Water body name:</b>                | Coneyglen Burn     |
| <b>Water body identification code:</b> | UKGBNI1NW010102085 |
| <b>Catchment stakeholder group:</b>    | Upper Foyle        |
| <b>Local management area:</b>          | Owenkillew         |
| <b>2015 Objective:</b>                 | Good Status        |
| <b>2021 Objective:</b>                 | Good Status        |
| <b>2027 Objective:</b>                 | Good Status        |












**The type of this water body is:** Alkalinity 10-50 (as mg/l of CaCO<sub>3</sub>)  
**2005 risk assessment:** 1b - Likely to be at risk

**Current overall status:** Moderate   
 ( Confidence in overall status: Medium )

|                              |          |   |
|------------------------------|----------|---|
| Benthic invertebrates:       | Moderate |  |
| Macrophytes:                 | High     |  |
| Fish:                        | Moderate |  |
| Phytobenthos:                | High     |  |
| Dissolved oxygen:            | High     |  |
| Soluble reactive phosphorus: | High     |  |
| pH:                          | High     |  |
| Ammonia:                     | High     |  |

|                             |      |   |
|-----------------------------|------|---|
| Biochemical oxygen demand*: | High |  |
| Temperature*:               | High |  |

|                           |          |   |
|---------------------------|----------|---|
| Hydrological regime:      | High     |  |
| Morphological conditions: | Moderate |  |

|                   |      |   |
|-------------------|------|---|
| Atrazine:         | Good |  |
| Chlorfenvinphos:  | Good |  |
| Chlorpyrifos:     | Good |  |
| Dissolved copper: | Good |  |
| Diazinon:         | Good |  |
| Fenitrothion:     | Good |  |
| Malathion:        | Good |  |
| Phenol:           | Good |  |
| Simazine:         | Good |  |
| Triazaphos:       | Good |  |
| Total zinc:       | Good |  |

\* This element does not contribute to overall classification.

For more information on the classification process see: [http://www.ni-environment.gov.uk/water-home/wfd/north\\_western\\_rbp/nw-riverslakes.htm](http://www.ni-environment.gov.uk/water-home/wfd/north_western_rbp/nw-riverslakes.htm)


**Water body name:** Coneyglen Burn (3) #  
**Water body identification code:** UKGBNI1NW010102085  
**2009 status:** Moderate  
**2015 Objective:** Good  
**Upstream water bodies:**  
**Downstream water body:** Owenkillew River (4)  
 ( UKGBNI1NW010102026)








| Problem             | Solution  |  |   |         |
|---------------------|---|--|---|---------|
| Failing Element     | Action to be taken  | Action to be taken by  | Make operational by                         |         |
| Invertebrates, Fish | 1   | Carry out a river walk to determine and address sources of organic pollution affecting benthic invertebrates and resulting in low biotic scores and/or observed sewage fungus.               | DOE NIEA                                    | 2011    |
|                     | 2   | Conduct local management area investigative surveys to assess benthic invertebrates  | DOE NIEA                                    | 2010    |
|                     | 3   | Assess sources of organic pollution including agriculture, NIW intermittent discharges, WWTW, sewage pumping stations and septic tanks (domestic and private).                               | DOE NIEA                                    | 2010    |
|                     | 4   | Investigate impact of forestry operations in the Coneyglen Burn waterbody. Ascertain and review felling plans and ensure appropriate measures are in place to mitigate risks from felling.   | Private forest owners                       | 2011    |
|                     | 5   | Continue to monitor fish populations and investigate the feasibility of habitat improvement as required  | Loughs Agency                               | Ongoing |
|                     | 6   | Carryout Rapid Hydro morphology Assessment Technique (RHAT) survey to assess morphological impacts   | DOE NIEA                                    | 2010    |
|                     | 7   | Investigate agricultural practices in the catchment through river walks and analysis of agricultural pollution incidents and cross compliance data and carry out site visits where necessary | DOE NIEA                                    | 2010    |
|                     | 8   | Raise awareness of the issue of pesticide use and disposal   | DOE NIEA                                    | 2010    |
|                     | 9   | Promote best practice in the use of pesticides on farms  | DARD<br>Countryside<br>Management<br>Branch | 2010    |
|                     | 10  | Assess significance of sheep dip usage and review groundwater authorisations where appropriate.  | DOE NIEA                                    | 2010    |
|                     | 11  | Monitor fish populations at selected sites   | Loughs Agency                               | 2010    |
|                     | <a href="#">A number of catchment wide actions also apply to this water body. These can be found on Page 8.</a> |  |   |         |



# number in brackets refers to Map 3.

**Water body name:** Owenkillew River  
**Water body identification code:** UKGBNI1NW010102026  
**Catchment stakeholder group:** Upper Foyle  
**Local management area:** Owenkillew  
**2015 Objective:** Moderate Status  
**2021 Objective:** Moderate Status  
**2027 Objective:** Moderate Status

**The type of this water body is:** Alkalinity 10-50 (as mg/l of CaCO<sub>3</sub>)  
**2005 risk assessment:** 1a - At risk

**Current overall status:** Moderate   
 ( Confidence in overall status: Medium )

Benthic invertebrates: Moderate   
 Macrophytes: High   
 Pearl mussel: Moderate   
 Dissolved oxygen: High   
 Soluble reactive phosphorus: High   
 pH: High   
 Ammonia: High 

Biochemical oxygen demand\*: High   
 Temperature\*: High 

Hydrological regime: High   
 Morphological conditions: Moderate 

Dissolved copper: Failing to achieve good   
 Total zinc: Good 

\* This element does not contribute to overall classification.

For more information on the classification process see: [http://www.ni-environment.gov.uk/water-home/wfd/north\\_western\\_rbp/nw-riverslakes.htm](http://www.ni-environment.gov.uk/water-home/wfd/north_western_rbp/nw-riverslakes.htm)


**Water body name:** Owenkillew River (4) #  
**Water body identification code:** UKGBNI1NW010102026  
**2009 status:** Moderate  
**2015 Objective:** Moderate  
**Upstream water bodies:** Coneyglen Burn (3) ( UKGBNI1NW010102085)  
 Broughderg Burn (2)  
 ( UKGBNI1NW010102086)  
**Downstream water body:** Owenkillew River (6)  
 ( UKGBNI1NW010102011)







| Problem                             | Solution  |  |                     |         |
|-------------------------------------|---|--|---------------------|---------|
| Failing Element                     | Action to be taken  | Action to be taken by  | Make operational by |         |
| Invertebrates, Pearl Mussel, Copper | 1   | Assessment of river conditions through research and river surveys to locate sources of sediment  | INTERREG IVA        | 2011    |
|                                     | 2   | Develop action plans for designated Freshwater Pearl Mussel Special Areas of Conservation  | INTERREG IVA        | 2011    |
|                                     | 3   | Identify river remedies and possible options to improve Freshwater Pearl Mussel conditions and enhance recruitment   | INTERREG IVA        | 2011    |
|                                     | 4   | Consider site restoration and protection methods to reduce sedimentation and improve habitat.  | INTERREG IVA        | 2011    |
|                                     | 5   | Conduct local management area investigative surveys to assess benthic invertebrates  | DOE NIEA            | 2010    |
|                                     | 6   | Carry out a river walk to determine and address sources of organic pollution affecting benthic invertebrates and resulting in low biotic scores and/or observed sewage fungus. | DOE NIEA            | 2011    |
|                                     | 7   | Investigate possible sources of Copper to surface waters.  | DOE NIEA            | 2011    |
|                                     | 8   | Assess sources of organic pollution including agriculture, NIW intermittent discharges, WWTW, sewage pumping stations and septic tanks (domestic and private).                 | DOE NIEA            | 2010    |
|                                     | 9   | Continue to monitor fish populations and investigate the feasibility of habitat improvement as required  | Loughs Agency       | Ongoing |
|                                     | 10  | Continue regulatory investigation and action against unlicensed activities impacting on fish populations and habitats  | Loughs Agency       | Ongoing |
|                                     | <a href="#">A number of catchment wide actions also apply to this water body. These can be found on Page 8.</a> |  |                     |         |



# number in brackets refers to Map 3.

**Water body name:** Glenlark River  
**Water body identification code:** UKGBNI1NW010102025  
**Catchment stakeholder group:** Upper Foyle  
**Local management area:** Owenkillew  
**2015 Objective:** Good Status  
**2021 Objective:** Good Status  
**2027 Objective:** Good Status

**The type of this water body is:** Alkalinity 10-50 (as mg/l of CaCO<sub>3</sub>)  
**2005 risk assessment:** 1a - At risk

**Current overall status:** Good   
 ( Confidence in overall status: High )

Benthic invertebrates: Good   
 Macrophytes: High   
 Dissolved oxygen: High   
 Soluble reactive phosphorus: High   
 pH: High   
 Ammonia: High 

Biochemical oxygen demand\*: High   
 Temperature\*: High 

Hydrological regime: High 

Dissolved copper: Good   
 Total zinc: Good 

\* This element does not contribute to overall classification.

For more information on the classification process see: [http://www.ni-environment.gov.uk/water-home/wfd/north\\_western\\_rbp/nw-riverslakes.htm](http://www.ni-environment.gov.uk/water-home/wfd/north_western_rbp/nw-riverslakes.htm)


**Water body name:** Glenlark River (5) #  
**Water body identification code:** UKGBNI1NW010102025  
**2009 status:** Good  
**2015 Objective:** Good  
**Upstream water bodies:**  
**Downstream water body:** Owenkillew River (6)  
 ( UKGBNI1NW010102011)








| Problem         | Solution   |                       |                     |
|-----------------|--|-----------------------|---------------------|
| Failing Element | Action to be taken   | Action to be taken by | Make operational by |
|                 | 1 Maintain current regulatory controls, monitoring existing measures in order to maintain the good status of this waterbody  | All                   | Ongoing             |
|                 | 2 Assess sources of organic pollution including agriculture, NIW intermittent discharges, WWTW, sewage pumping stations and septic tanks (domestic and private).                             | DOE NIEA              | 2010                |
|                 | 3 Investigate impact of forestry operations in the Glenlark River waterbody. Ascertain and review felling plans and ensure appropriate measures are in place to mitigate risks from felling. | Private forest owners | 2011                |
|                 | 4 Continue to monitor fish populations and investigate the feasibility of habitat improvement as required  | Loughs Agency         | Ongoing             |
|                 | 5 Carry out a river walk to determine and address sources of organic pollution affecting benthic invertebrates and resulting in low biotic scores and/or observed sewage fungus.             | DOE NIEA              | 2011                |
|                 | 6 Conduct local management area investigative surveys to assess benthic invertebrates  | DOE NIEA              | 2010                |
|                 | 7 Investigate potential causes of pH disturbances in catchment   | DOE NIEA              | 2011                |
|                 | <a href="#">A number of catchment wide actions also apply to this water body. These can be found on Page 8.</a>  |                       |                     |



# number in brackets refers to Map 3.

|  |                    |
|--|--------------------|
| <b>Water body name:</b>                | Owenkillew River   |
| <b>Water body identification code:</b> | UKGBNI1NW010102011 |
| <b>Catchment stakeholder group:</b>    | Upper Foyle        |
| <b>Local management area:</b>          | Owenkillew         |
| <b>2015 Objective:</b>                 | Moderate Status    |
| <b>2021 Objective:</b>                 | Moderate Status    |
| <b>2027 Objective:</b>                 | Moderate Status    |

**The type of this water body is:** Alkalinity 10-50 (as mg/l of CaCO<sub>3</sub>)  
**2005 risk assessment:** 1a - At risk

**Current overall status:** Moderate   
 ( Confidence in overall status: Medium )

|                              |          |   |
|------------------------------|----------|---|
| Benthic invertebrates:       | Moderate |  |
| Macrophytes:                 | High     |  |
| Pearl mussel:                | Moderate |  |
| Dissolved oxygen:            | High     |  |
| Soluble reactive phosphorus: | High     |  |
| pH:                          | High     |  |
| Ammonia:                     | High     |  |

|                             |      |   |
|-----------------------------|------|---|
| Biochemical oxygen demand*: | High |   |
| Temperature*:               | High |  |

|                           |          |   |
|---------------------------|----------|---|
| Hydrological regime:      | High     |  |
| Morphological conditions: | Moderate |  |

|                   |                         |   |
|-------------------|-------------------------|---|
| Dissolved copper: | Failing to achieve good |  |
| Total zinc:       | Good                    |  |

\* This element does not contribute to overall classification.

For more information on the classification process see: [http://www.ni-environment.gov.uk/water-home/wfd/north\\_western\\_rbp/nw-riverslakes.htm](http://www.ni-environment.gov.uk/water-home/wfd/north_western_rbp/nw-riverslakes.htm)

**Water body name:** Owenkillew River (6) #  
**Water body identification code:** UKGBNI1NW010102011  
**2009 status:** Moderate  
**2015 Objective:** Moderate  
**Upstream water bodies:** Glenlark River (5) ( UKGBNI1NW010102025)  
 Owenkillew River (4)  
 ( UKGBNI1NW010102026)  
**Downstream water body:** Owenkillew River Gortin (13)  
 ( UKGBNI1NW010102027)

| Problem                             | Solution           |  |   |         |
|-------------------------------------|--------------------|--|---|---------|
| Failing Element                     | Action to be taken | Action to be taken by  | Make operational by                         |         |
| Invertebrates, Pearl Mussel, Copper | 1                  | Assessment of river conditions through research and river surveys to locate sources of sediment  | INTERREG IVA                                | 2011    |
|                                     | 2                  | Develop action plans for designated Freshwater Pearl Mussel Special Areas of Conservation  | INTERREG IVA                                | 2011    |
|                                     | 3                  | Identify river remedies and possible options to improve Freshwater Pearl Mussel conditions and enhance recruitment   | INTERREG IVA                                | 2011    |
|                                     | 4                  | Consider site restoration and protection methods to reduce sedimentation and improve habitat.  | INTERREG IVA                                | 2011    |
|                                     | 5                  | Conduct local management area investigative surveys to assess benthic invertebrates  | DOE NIEA                                    | 2010    |
|                                     | 6                  | Carry out a river walk to determine and address sources of organic pollution affecting benthic invertebrates and resulting in low biotic scores and/or observed sewage fungus.               | DOE NIEA                                    | 2011    |
|                                     | 7                  | Investigate possible sources of Copper to surface waters.  | DOE NIEA                                    | 2011    |
|                                     | 8                  | Assess sources of organic pollution including agriculture, NIW intermittent discharges, WWTW, sewage pumping stations and septic tanks (domestic and private).                               | DOE NIEA                                    | 2010    |
|                                     | 9                  | Continue to monitor fish populations and investigate the feasibility of habitat improvement as required  | Loughs Agency                               | Ongoing |
|                                     | 10                 | Carryout Rapid Hydro morphology Assessment Technique (RHAT) survey to assess morphological impacts   | DOE NIEA                                    | 2010    |
|                                     | 11                 | Targeted education, advice and regulatory action to prevent pollution and protect the water environment  | DOE NIEA                                    | 2011    |
|                                     | 12                 | Investigate agricultural practices in the catchment through river walks and analysis of agricultural pollution incidents and cross compliance data and carry out site visits where necessary | DOE NIEA                                    | 2010    |
|                                     | 13                 | Raise awareness of the issue of pesticide use and disposal   | DOE NIEA                                    | 2011    |
|                                     | 14                 | Promote best practice in the use of pesticides on farms  | DARD<br>Countryside<br>Management<br>Branch | 2011    |




|  |    |   |          |      |
|--|----|---|----------|------|
|  | 15 | Investigate possible sources of Copper to surface waters.   | DOE NIEA | 2011 |
|  |    | <a href="#">A number of catchment wide actions also apply to this water body. These can be found on Page 8.</a> |          |      |







# number in brackets refers to Map 3.



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|  |                    |
|--|--------------------|
| <b>Water body name:</b>                | Owenreagh River    |
| <b>Water body identification code:</b> | UKGBNI1NW010102091 |
| <b>Catchment stakeholder group:</b>    | Upper Foyle        |
| <b>Local management area:</b>          | Owenkillew         |
| <b>2015 Objective:</b>                 | Good Status        |
| <b>2021 Objective:</b>                 | Good Status        |
| <b>2027 Objective:</b>                 | Good Status        |

**The type of this water body is:** Alkalinity 10-50 (as mg/l of CaCO<sub>3</sub>)  
**2005 risk assessment:** 1b - Likely to be at risk

**Current overall status:** Good   
 ( Confidence in overall status: High )

|                              |      |   |
|------------------------------|------|---|
| Benthic invertebrates:       | Good |  |
| Macrophytes:                 | Good |  |
| Dissolved oxygen:            | High |  |
| Soluble reactive phosphorus: | Good |  |
| pH:                          | High |  |
| Ammonia:                     | High |  |

|                             |      |  |
|-----------------------------|------|--|
| Biochemical oxygen demand*: | Good |   |
| Temperature*:               | High |  |

|                      |      |   |
|----------------------|------|---|
| Hydrological regime: | High |  |
|----------------------|------|---|

|                   |      |   |
|-------------------|------|---|
| Dissolved copper: | Good |  |
| Total zinc:       | Good |  |

\* This element does not contribute to overall classification.

For more information on the classification process see: [http://www.ni-environment.gov.uk/water-home/wfd/north\\_western\\_rbp/nw-riverslakes.htm](http://www.ni-environment.gov.uk/water-home/wfd/north_western_rbp/nw-riverslakes.htm)


**Water body name:** Owenreagh River (7) #  
**Water body identification code:** UKGBNI1NW010102091  
**2009 status:** Good  
**2015 Objective:** Good  
**Upstream water bodies:**  
**Downstream water body:** Owenreagh River (9)  
 ( UKGBNI1NW010102038)







| Problem         | Solution   |                       |                     |
|-----------------|--|-----------------------|---------------------|
| Failing Element | Action to be taken   | Action to be taken by | Make operational by |
|                 | 1 Maintain current regulatory controls, monitoring existing measures in order to maintain the good status of this waterbody  | All                   | Ongoing             |
|                 | 2 Conduct local management area investigative surveys to assess benthic invertebrates  | DOE NIEA              | 2010                |
|                 | 3 Assess sources of oil contamination.   | DOE NIEA              | 2010                |
|                 | 4 Investigate impact of forestry operations in the Owenreagh River waterbody. Ascertain and review felling plans and ensure appropriate measures are in place to mitigate risks from felling.  | DARD Forest Service   | 2011                |
|                 | 5 Investigate agricultural practices in the catchment through river walks and analysis of agricultural pollution incidents and cross compliance data and carry out site visits where necessary | DOE NIEA              | 2010                |
|                 | 6 Assess the possibility of designating this water body as an ASSI to improve protection   | DOE NIEA              | 2010                |
|                 | <a href="#">A number of catchment wide actions also apply to this water body. These can be found on Page 8.</a>  |                       |                     |



# number in brackets refers to Map 3.


**Water body name:** Cashel Burn  
**Water body identification code:** UKGBNI1NW010102024  
**Catchment stakeholder group:** Upper Foyle  
**Local management area:** Owenkillew  
**2015 Objective:** Good Status  
**2021 Objective:** Good Status  
**2027 Objective:** Good Status

**The type of this water body is:** Alkalinity 10-50 (as mg/l of CaCO<sub>3</sub>)  
**2005 risk assessment:** 1a - At risk

**Current overall status:** Good   
 ( Confidence in overall status: Medium )

Benthic invertebrates: Good   
 Macrophytes: Good   
 Dissolved oxygen: High   
 Soluble reactive phosphorus: High   
 pH: High   
 Ammonia: High 

Biochemical oxygen demand\*: High   
 Temperature\*: High 

Hydrological regime: High   
 Morphological conditions: Moderate 

Dissolved copper: Good   
 Total zinc: Good 

\* This element does not contribute to overall classification.

For more information on the classification process see: [http://www.ni-environment.gov.uk/water-home/wfd/north\\_western\\_rbp/nw-riverslakes.htm](http://www.ni-environment.gov.uk/water-home/wfd/north_western_rbp/nw-riverslakes.htm)


**Water body name:** Cashel Burn (8) #  
**Water body identification code:** UKGBNI1NW010102024  
**2009 status:** Good  
**2015 Objective:** Good  
**Upstream water bodies:**  
**Downstream water body:** Owenreagh River (9)  
 ( UKGBNI1NW010102038)







| Problem         | Solution   |                       |                     |
|-----------------|--|-----------------------|---------------------|
| Failing Element | Action to be taken   | Action to be taken by | Make operational by |
|                 | 1 Assess sources of organic pollution including agriculture, NIW intermittent discharges, WWTW, sewage pumping stations and septic tanks (domestic and private). | DOE NIEA              | 2010                |
|                 | 2 Continue to monitor fish populations and investigate the feasibility of habitat improvement as required  | Loughs Agency         | Ongoing             |
|                 | 3 Maintain current regulatory controls, monitoring existing measures in order to maintain the good status of this waterbody                                      | All                   | Ongoing             |
|                 | 4 Conduct a water resource assessment to inform review of abstraction licenses   | DOE NIEA              | 2010                |
|                 | <a href="#">A number of catchment wide actions also apply to this water body. These can be found on Page 8.</a>  |                       |                     |



# number in brackets refers to Map 3.

**Water body name:** Owenreagh River  
**Water body identification code:** UKGBNI1NW010102038  
**Catchment stakeholder group:** Upper Foyle  
**Local management area:** Owenkillew  
**2015 Objective:** Good Status  
**2021 Objective:** Good Status  
**2027 Objective:** Good Status

**The type of this water body is:** Alkalinity 10-50 (as mg/l of CaCO<sub>3</sub>)  
**2005 risk assessment:** 1b - Likely to be at risk

**Current overall status:** Good   
 ( Confidence in overall status: High )

Benthic invertebrates: Good   
 Macrophytes: High   
 Dissolved oxygen: High   
 Soluble reactive phosphorus: High   
 pH: High   
 Ammonia: High 

Biochemical oxygen demand\*: High   
 Temperature\*: High 

Hydrological regime: High 

Dissolved copper: Good   
 Total zinc: Good 

\* This element does not contribute to overall classification.

For more information on the classification process see: [http://www.ni-environment.gov.uk/water-home/wfd/north\\_western\\_rbp/nw-riverslakes.htm](http://www.ni-environment.gov.uk/water-home/wfd/north_western_rbp/nw-riverslakes.htm)

**Water body name:** Owenreagh River (9) #  
**Water body identification code:** UKGBNI1NW010102038  
**2009 status:** Good  
**2015 Objective:** Good  
**Upstream water bodies:** Owenreagh River (7)  
 ( UKGBNI1NW010102091) Cashel Burn (8)  
 ( UKGBNI1NW010102024)  
**Downstream water body:** Owenreagh River (11)  
 ( UKGBNI1NW010102022)


| Problem         | Solution   |                       |                     |
|-----------------|--|-----------------------|---------------------|
| Failing Element | Action to be taken   | Action to be taken by | Make operational by |
|                 | 1 Maintain current regulatory controls, monitoring existing measures in order to maintain the good status of this waterbody  | All                   | Ongoing             |
|                 | 2 Carry out a river walk to determine and address sources of organic pollution affecting benthic invertebrates and resulting in low biotic scores and/or observed sewage fungus. | DOE NIEA              | 2011                |
|                 | 3 Assess the possibility of designating this water body as an ASSI to improve protection   | DOE NIEA              | 2010                |
|                 | <a href="#">A number of catchment wide actions also apply to this water body. These can be found on Page 8.</a>  |                       |                     |








# number in brackets refers to Map 3.





|  |                    |
|--|--------------------|
| <b>Water body name:</b>                | Glenawisk Burn     |
| <b>Water body identification code:</b> | UKGBNI1NW010102023 |
| <b>Catchment stakeholder group:</b>    | Upper Foyle        |
| <b>Local management area:</b>          | Owenkillew         |
| <b>2015 Objective:</b>                 | Good Status        |
| <b>2021 Objective:</b>                 | Good Status        |
| <b>2027 Objective:</b>                 | Good Status        |

**The type of this water body is:** Alkalinity 10-50 (as mg/l of CaCO<sub>3</sub>)  
**2005 risk assessment:** 1a - At risk

**Current overall status:** Good   
 ( Confidence in overall status: High )

|                              |      |   |
|------------------------------|------|---|
| Benthic invertebrates:       | High |  |
| Macrophytes:                 | High |  |
| Fish:                        | Good |  |
| Dissolved oxygen:            | High |  |
| Soluble reactive phosphorus: | High |  |
| pH:                          | High |  |
| Ammonia:                     | High |  |

|                             |      |   |
|-----------------------------|------|---|
| Biochemical oxygen demand*: | High |   |
| Temperature*:               | High |  |

|                           |          |   |
|---------------------------|----------|---|
| Hydrological regime:      | Moderate |  |
| Morphological conditions: | Moderate |  |

|                   |      |   |
|-------------------|------|---|
| Dissolved copper: | Good |  |
| Total zinc:       | Good |  |

\* This element does not contribute to overall classification.

For more information on the classification process see: [http://www.ni-environment.gov.uk/water-home/wfd/north\\_western\\_rbp/nw-riverslakes.htm](http://www.ni-environment.gov.uk/water-home/wfd/north_western_rbp/nw-riverslakes.htm)


**Water body name:** Glenawisk Burn (10) #  
**Water body identification code:** UKGBNI1NW010102023  
**2009 status:** Good  
**2015 Objective:** Good  
**Upstream water bodies:**  
**Downstream water body:** Owenreagh (11) ( UKGBNI1NW010102022)







| Problem         | Solution   |                       |                     |
|-----------------|--|-----------------------|---------------------|
| Failing Element | Action to be taken   | Action to be taken by | Make operational by |
|                 | 1 Assess sources of organic pollution including agriculture, NIW intermittent discharges, WWTW, sewage pumping stations and septic tanks (domestic and private). | DOE NIEA              | 2010                |
|                 | 2 Continue to monitor fish populations and investigate the feasibility of habitat improvement as required  | Loughs Agency         | Ongoing             |
|                 | 3 Conduct a water resource assessment to inform review of abstraction licenses   | DOE NIEA              | 2010                |
|                 | 4 Maintain current regulatory controls, monitoring existing measures in order to maintain the good status of this waterbody                                      | All                   | Ongoing             |
|                 | <a href="#">A number of catchment wide actions also apply to this water body. These can be found on Page 8.</a>  |                       |                     |



# number in brackets refers to Map 3.

**Water body name:** Owenreagh River  
**Water body identification code:** UKGBNI1NW010102022  
**Catchment stakeholder group:** Upper Foyle  
**Local management area:** Owenkillew  
**2015 Objective:** Good Status  
**2021 Objective:** Good Status  
**2027 Objective:** Good Status

**The type of this water body is:** Alkalinity 10-50 (as mg/l of CaCO<sub>3</sub>)  
**2005 risk assessment:** 1a - At risk

**Current overall status:** Good   
 ( Confidence in overall status: High )

Benthic invertebrates: Good   
 Macrophytes: High   
 Dissolved oxygen: High   
 Soluble reactive phosphorus: High   
 pH: High   
 Ammonia: High 

Biochemical oxygen demand\*: High   
 Temperature\*: High 

Hydrological regime: High   
 Morphological conditions: Moderate 

Dissolved copper: Good   
 Total zinc: Good 

\* This element does not contribute to overall classification.

For more information on the classification process see: [http://www.ni-environment.gov.uk/water-home/wfd/north\\_western\\_rbp/nw-riverslakes.htm](http://www.ni-environment.gov.uk/water-home/wfd/north_western_rbp/nw-riverslakes.htm)


**Water body name:** Owenreagh River (11) #  
**Water body identification code:** UKGBNI1NW010102022  
**2009 status:** Good  
**2015 Objective:** Good  
**Upstream water bodies:** Glenawisk Burn (10)  
 ( UKGBNI1NW010102023)  
**Downstream water body:** Owenkillew River Gortin (13)  
 ( UKGBNI1NW010102027)







| Problem         | Solution   |                                    |                     |
|-----------------|--|------------------------------------|---------------------|
| Failing Element | Action to be taken   | Action to be taken by              | Make operational by |
|                 | 1 Maintain current regulatory controls, monitoring existing measures in order to maintain the good status of this waterbody  | All                                | Ongoing             |
|                 | 2 Assess sources of organic pollution including agriculture, NIW intermittent discharges, WWTW, sewage pumping stations and septic tanks (domestic and private).                               | DOE NIEA                           | 2010                |
|                 | 3 Investigate downstream impacts of WWTWs < 250 PE and review performance if necessary   | DOE NIEA                           | 2011                |
|                 | 4 Visual inspection of WWTWs <250 PE to inform future upgrades   | DOE NIEA                           | 2011                |
|                 | 5 Continue to monitor fish populations and investigate the feasibility of habitat improvement as required  | Loughs Agency                      | Ongoing             |
|                 | 6 Targeted education, advice and regulatory action to prevent pollution and protect the water environment  | DOE NIEA                           | 2011                |
|                 | 7 Conduct a water resource assessment to inform review of abstraction licenses   | DOE NIEA                           | 2010                |
|                 | 8 Investigate agricultural practices in the catchment through river walks and analysis of agricultural pollution incidents and cross compliance data and carry out site visits where necessary | DOE NIEA                           | 2010                |
|                 | 9 Raise awareness of the issue of pesticide use and disposal   | DOE NIEA                           | 2011                |
|                 | 10 Promote best practice in the use of pesticides on farms   | DARD Countryside Management Branch | 2011                |
|                 | 11 Carry out a river walk to determine and address sources of organic pollution affecting benthic invertebrates and resulting in low biotic scores and/or observed sewage fungus.              | DOE NIEA                           | 2011                |
|                 | 12 Conduct local management area investigative surveys to assess benthic invertebrates   | DOE NIEA                           | 2010                |
|                 | 13 Assess the possibility of designating this water body as an ASSI to improve protection  | DOE NIEA                           | 2010                |
|                 | <a href="#">A number of catchment wide actions also apply to this water body. These can be found on Page 8.</a>  |                                    |                     |



# number in brackets refers to Map 3.


**Water body name:** Glenmacoffer Burn  
**Water body identification code:** UKGBNI1NW010102043  
**Catchment stakeholder group:** Upper Foyle  
**Local management area:** Owenkillew  
**2015 Objective:** Good Status  
**2021 Objective:** Good Status  
**2027 Objective:** Good Status

**The type of this water body is:** Alkalinity 10-50 (as mg/l of CaCO<sub>3</sub>)  
**2005 risk assessment:** 1a - At risk

**Current overall status:** Moderate   
 ( Confidence in overall status: Medium )

Benthic invertebrates: Good   
 Macrophytes: Good   
 Dissolved oxygen: High   
 Soluble reactive phosphorus: High   
 pH: High   
 Ammonia: High 

Biochemical oxygen demand\*: High   
 Temperature\*: High 

Hydrological regime: High   
 Morphological conditions: Moderate 

Dissolved copper: Failing to achieve good   
 Total zinc: Good 

\* This element does not contribute to overall classification.

For more information on the classification process see: [http://www.ni-environment.gov.uk/water-home/wfd/north\\_western\\_rbp/nw-riverslakes.htm](http://www.ni-environment.gov.uk/water-home/wfd/north_western_rbp/nw-riverslakes.htm)


**Water body name:** Glenmacoffer Burn (12) #  
**Water body identification code:** UKGBNI1NW010102043  
**2009 status:** Moderate  
**2015 Objective:** Good  
**Upstream water bodies:**  
**Downstream water body:** Owenkillew River Gortin (13)  
 ( UKGBNI1NW010102027)









| Problem         | Solution   |                       |                     |
|-----------------|--|-----------------------|---------------------|
| Failing Element | Action to be taken   | Action to be taken by | Make operational by |
| Copper          | 1 Investigate possible sources of Copper to surface waters.  | DOE NIEA              | 2011                |
|                 | 2 Assess sources of organic pollution including agriculture, NIW intermittent discharges, WWTW, sewage pumping stations and septic tanks (domestic and private). | DOE NIEA              | 2010                |
|                 | 3 Continue to monitor fish populations and investigate the feasibility of habitat improvement as required  | Loughs Agency         | Ongoing             |
|                 | 4 Assess sources of organic pollution including agriculture, NIW intermittent discharges, WWTW, sewage pumping stations and septic tanks (domestic and private). | DOE NIEA              | 2010                |
|                 | 5 Conduct a water resource assessment to inform review of abstraction licenses   | DOE NIEA              | 2010                |
|                 | 6 Conduct local management area investigative surveys to assess benthic invertebrates  | DOE NIEA              | 2010                |
|                 | 7 Assess significance of sheep dip usage and review groundwater authorisations where appropriate.  | DOE NIEA              | 2011                |
|                 | <a href="#">A number of catchment wide actions also apply to this water body. These can be found on Page 8.</a>  |                       |                     |



# number in brackets refers to Map 3.

**Water body name:** Owenkillew River Gortin  
**Water body identification code:** UKGBNI1NW010102027  
**Catchment stakeholder group:** Upper Foyle  
**Local management area:** Owenkillew  
**2015 Objective:** Moderate Status  
**2021 Objective:** Moderate Status  
**2027 Objective:** Moderate Status

**The type of this water body is:** Alkalinity 10-50 (as mg/l of CaCO<sub>3</sub>)  
**2005 risk assessment:** 1a - At risk

**Current overall status:** Moderate   
 ( Confidence in overall status: High )

Benthic invertebrates: Good   
 Macrophytes: Good   
 Phytobenthos: High   
 Pearl mussel: Moderate   
 Dissolved oxygen: High   
 Soluble reactive phosphorus: High   
 pH: High   
 Ammonia: High 

Biochemical oxygen demand\*: High   
 Temperature\*: High 

Hydrological regime: High   
 Morphological conditions: Moderate 

Dissolved copper: Failing to achieve good   
 Phenol: Good   
 Total zinc: Good 

\* This element does not contribute to overall classification.

For more information on the classification process see: [http://www.ni-environment.gov.uk/water-home/wfd/north\\_western\\_rbp/nw-riverslakes.htm](http://www.ni-environment.gov.uk/water-home/wfd/north_western_rbp/nw-riverslakes.htm)

**Water body name:** Owenkillew River Gortin (13) #  
**Water body identification code:** UKGBNI1NW010102027  
**2009 status:** Moderate  
**2015 Objective:** Moderate  
**Upstream water bodies:** Glenmacoffer Burn (12)  
 ( UKGBNI1NW010102043) Owenkillew River  
 (6) ( UKGBNI1NW010102011) Owenreagh  
 River (11) ( UKGBNI1NW010102022)  
**Downstream water body:** Owenkillew Newtownstewart (17)  
 ( UKGBNI1NW010102028)


| Problem              | Solution   |                       |                     |
|----------------------|--|-----------------------|---------------------|
| Failing Element      | Action to be taken   | Action to be taken by | Make operational by |
| Pearl Mussel, Copper | 1 Conduct local management area investigative surveys to assess benthic invertebrates  | DOE NIEA              | 2010                |
|                      | 2 Carry out a river walk to determine and address sources of organic pollution affecting benthic invertebrates and resulting in low biotic scores and/or observed sewage fungus. | DOE NIEA              | 2011                |
|                      | 3 Assessment of river conditions through research and river surveys to locate sources of sediment  | INTERREG IVA          | 2011                |
|                      | 4 Develop action plans for designated Freshwater Pearl Mussel Special Areas of Conservation  | INTERREG IVA          | 2011                |
|                      | 5 Identify river remedies and possible options to improve Freshwater Pearl Mussel conditions and enhance recruitment   | INTERREG IVA          | 2011                |
|                      | 6 Consider site restoration and protection methods to reduce sedimentation and improve habitat.  | INTERREG IVA          | 2011                |
|                      | 7 Investigate possible sources of Copper to surface waters.  | DOE NIEA              | 2011                |
|                      | 8 Assess sources of organic pollution including agriculture, NIW intermittent discharges, WWTW, sewage pumping stations and septic tanks (domestic and private).                 | DOE NIEA              | 2010                |
|                      | 9 Continue to monitor fish populations and investigate the feasibility of habitat improvement as required  | Loughs Agency         | Ongoing             |
|                      | 10 Investigate ammonia elevations  | DOE NIEA              | 2011                |
|                      | <a href="#">A number of catchment wide actions also apply to this water body. These can be found on Page 8.</a>  |                       |                     |







# number in brackets refers to Map 3.





**Water body name:** Glenelly River  
**Water body identification code:** UKGBNI1NW010102083  
**Catchment stakeholder group:** Upper Foyle  
**Local management area:** Owenkillew  
**2015 Objective:** Good Status  
**2021 Objective:** Good Status  
**2027 Objective:** Good Status


**The type of this water body is:** Alkalinity 10-50 (as mg/l of CaCO<sub>3</sub>)  
**2005 risk assessment:** 1a - At risk

**Current overall status:** Good   
 ( Confidence in overall status: High )

Benthic invertebrates: Good   
 Macrophytes: High   
 Dissolved oxygen: High   
 Soluble reactive phosphorus: High   
 pH: High   
 Ammonia: High 

Biochemical oxygen demand\*: High   
 Temperature\*: High 

Hydrological regime: High   
 Morphological conditions: Moderate 

Dissolved copper: Good   
 Total zinc: Good 

\* This element does not contribute to overall classification.

For more information on the classification process see: [http://www.ni-environment.gov.uk/water-home/wfd/north\\_western\\_rbp/nw-riverslakes.htm](http://www.ni-environment.gov.uk/water-home/wfd/north_western_rbp/nw-riverslakes.htm)


**Water body name:** Glenelly River (14) #  
**Water body identification code:** UKGBNI1NW010102083  
**2009 status:** Good  
**2015 Objective:** Good  
**Upstream water bodies:**  
**Downstream water body:** Glenelly River (15) ( UKGBNI1NW010102048)








| Problem         | Solution   |                       |                     |
|-----------------|--|-----------------------|---------------------|
| Failing Element | Action to be taken   | Action to be taken by | Make operational by |
|                 | 1 Maintain current regulatory controls, monitoring existing measures in order to maintain the good status of this waterbody  | All                   | Ongoing             |
|                 | 2 Investigate impact of forestry operations in the Glenelly River waterbody. Ascertain and review felling plans and ensure appropriate measures are in place to mitigate risks from felling. | DARD Forest Service   | 2011                |
|                 | 3 Conduct local management area investigative surveys to assess benthic invertebrates  | DOE NIEA              | 2010                |
|                 | 4 Carry out a river walk to determine and address sources of organic pollution affecting benthic invertebrates and resulting in low biotic scores and/or observed sewage fungus.             | DOE NIEA              | 2011                |
|                 | 5 Assess significance of sheep dip usage and review groundwater authorisations where appropriate.  | DOE NIEA              | 2011                |
|                 | <a href="#">A number of catchment wide actions also apply to this water body. These can be found on Page 8.</a>  |                       |                     |



# number in brackets refers to Map 3.

**Water body name:** Glenelly River  
**Water body identification code:** UKGBNI1NW010102048  
**Catchment stakeholder group:** Upper Foyle  
**Local management area:** Owenkillew  
**2015 Objective:** Good Status  
**2021 Objective:** Good Status  
**2027 Objective:** Good Status












**The type of this water body is:** Alkalinity 10-50 (as mg/l of CaCO<sub>3</sub>)  
**2005 risk assessment:** 1a - At risk

**Current overall status:** Moderate   
 ( Confidence in overall status: Medium )

Benthic invertebrates: Moderate   
 Macrophytes: High   
 Phytobenthos: High   
 Dissolved oxygen: High   
 Soluble reactive phosphorus: High   
 pH: High   
 Ammonia: High 

Biochemical oxygen demand\*: High   
 Temperature\*: High 

Hydrological regime: High   
 Morphological conditions: Moderate 

Atrazine: Good   
 Chlorfenvinphos: Good   
 Chlorpyrifos: Good   
 Dissolved copper: Good   
 Diazinon: Good   
 Fenitrothion: Good   
 Malathion: Good   
 Phenol: Good   
 Simazine: Good   
 Triazaphos: Good   
 Total zinc: Failing to achieve good 

\* This element does not contribute to overall classification.

For more information on the classification process see: [http://www.ni-environment.gov.uk/water-home/wfd/north\\_western\\_rbp/nw-riverslakes.htm](http://www.ni-environment.gov.uk/water-home/wfd/north_western_rbp/nw-riverslakes.htm)

**Water body name:** Glenelly River (15) #  
**Water body identification code:** UKGBNI1NW010102048  
**2009 status:** Moderate  
**2015 Objective:** Good  
**Upstream water bodies:** Glenelly River (14) ( UKGBNI1NW010102083)  
**Downstream water body:** Glenelly River (16) ( UKGBNI1NW010102073)


| Problem             | Solution  |  |                                    |         |
|---------------------|---|--|------------------------------------|---------|
| Failing Element     | Action to be taken  | Action to be taken by  | Make operational by                |         |
| Invertebrates, Zinc | 1   | Carry out a river walk to determine and address sources of organic pollution affecting benthic invertebrates and resulting in low biotic scores and/or observed sewage fungus.               | DOE NIEA                           | 2011    |
|                     | 2   | Conduct local management area investigative surveys to assess benthic invertebrates  | DOE NIEA                           | 2010    |
|                     | 3   | Assess sources of organic pollution including agriculture, NIW intermittent discharges, WWTW, sewage pumping stations and septic tanks (domestic and private).                               | DOE NIEA                           | 2010    |
|                     | 4   | Visual inspection of Cranagh WWTW <250 PE to inform future upgrades  | DOE NIEA                           | 2011    |
|                     | 5   | Investigate downstream impacts of WWTWs < 250 PE and review performance if necessary   | DOE NIEA                           | 2011    |
|                     | 6   | Assess significance of sheep dip usage and review groundwater authorisations where appropriate.  | DOE NIEA                           | 2011    |
|                     | 7   | Continue to monitor fish populations and investigate the feasibility of habitat improvement as required  | Loughs Agency                      | Ongoing |
|                     | 8   | Continue regulatory investigation and action against unlicensed activities impacting on fish populations and habitats  | Loughs Agency                      | Ongoing |
|                     | 9   | Investigate possible sources of Zinc to surface waters.  | DOE NIEA                           | 2011    |
|                     | 10  | Carryout Rapid Hydro morphology Assessment Technique (RHAT) survey to assess morphological impacts   | DOE NIEA                           | 2010    |
|                     | 11  | Investigate agricultural practices in the catchment through river walks and analysis of agricultural pollution incidents and cross compliance data and carry out site visits where necessary | DOE NIEA                           | 2010    |
|                     | 12  | Raise awareness of the issue of pesticide use and disposal   | DOE NIEA                           | 2011    |
|                     | 13  | Promote best practice in the use of pesticides on farms  | DARD Countryside Management Branch | 2011    |
|                     | 14  | Targeted education, advice and regulatory action to prevent pollution and protect the water environment  | DOE NIEA                           | 2011    |
|                     | 15  | Monitor fish populations at selected sites   | Loughs Agency                      | 2010    |
|                     | <a href="#">A number of catchment wide actions also apply to this water body. These can be found on Page 8.</a> |  |                                    |         |








# number in brackets refers to Map 3.



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**Water body name:** Glenelly River  
**Water body identification code:** UKGBNI1NW010102073  
**Catchment stakeholder group:** Upper Foyle  
**Local management area:** Owenkillew  
**2015 Objective:** Good Status  
**2021 Objective:** Good Status  
**2027 Objective:** Good Status

**The type of this water body is:** Alkalinity 10-50 (as mg/l of CaCO<sub>3</sub>)  
**2005 risk assessment:** 1a - At risk

**Current overall status:** Moderate   
 ( Confidence in overall status: Medium )

Benthic invertebrates: Moderate   
 Macrophytes: High   
 Fish: Moderate   
 Dissolved oxygen: High   
 Soluble reactive phosphorus: High   
 pH: High   
 Ammonia: High 

Biochemical oxygen demand\*: High   
 Temperature\*: High 

Hydrological regime: High   
 Morphological conditions: Moderate 

Dissolved copper: Failing to achieve good   
 Total zinc: Good 

\* This element does not contribute to overall classification.

For more information on the classification process see: [http://www.ni-environment.gov.uk/water-home/wfd/north\\_western\\_rbp/nw-riverslakes.htm](http://www.ni-environment.gov.uk/water-home/wfd/north_western_rbp/nw-riverslakes.htm)

**Water body name:** Glenelly River (16) #  
**Water body identification code:** UKGBNI1NW010102073  
**2009 status:** Moderate  
**2015 Objective:** Good  
**Upstream water bodies:** Glenelly River (15) ( UKGBNI1NW010102048)  
**Downstream water body:** Owenkillew Newtownstewart (17)  
 ( UKGBNI1NW010102028)


| Problem                     | Solution   |                                    |                     |
|-----------------------------|--|------------------------------------|---------------------|
| Failing Element             | Action to be taken   | Action to be taken by              | Make operational by |
| Invertebrates, Fish, Copper | 1 Assess sources of organic pollution including agriculture, NIW intermittent discharges, WWTW, sewage pumping stations and septic tanks (domestic and private).                               | DOE NIEA                           | 2010                |
|                             | 2 Conduct local management area investigative surveys to assess benthic invertebrates  | DOE NIEA                           | 2010                |
|                             | 3 Carry out a river walk to determine and address sources of organic pollution affecting benthic invertebrates and resulting in low biotic scores and/or observed sewage fungus.               | DOE NIEA                           | 2011                |
|                             | 4 Investigate impact of forestry operations in the Glenelly River waterbody. Ascertain and review felling plans and ensure appropriate measures are in place to mitigate risks from felling.   | DARD Forest Service                | 2011                |
|                             | 5 Assess significance of sheep dip usage and review groundwater authorisations where appropriate.  | DOE NIEA                           | 2011                |
|                             | 6 Continue to monitor fish populations and investigate the feasibility of habitat improvement as required  | Loughs Agency                      | Ongoing             |
|                             | 7 Continue regulatory investigation and action against unlicensed activities impacting on fish populations and habitats  | Loughs Agency                      | Ongoing             |
|                             | 8 Conduct a water resource assessment to inform review of abstraction licenses   | DOE NIEA                           | 2010                |
|                             | 9 Investigate agricultural practices in the catchment through river walks and analysis of agricultural pollution incidents and cross compliance data and carry out site visits where necessary | DOE NIEA                           | 2010                |
|                             | 10 Raise awareness of the issue of pesticide use and disposal  | DOE NIEA                           | 2011                |
|                             | 11 Promote best practice in the use of pesticides on farms   | DARD Countryside Management Branch | 2011                |
|                             | 12 Compliance assessment of Plumbridge WWTW >250 PE to inform future upgrades  | DOE NIEA                           | 2011                |
|                             | 13 Investigate possible sources of Copper to surface waters.   | DOE NIEA                           | 2011                |
|                             | <a href="#">A number of catchment wide actions also apply to this water body. These can be found on Page 8.</a>  |                                    |                     |









# number in brackets refers to Map 3.





**Water body name:** Owenkillew N'stewart  
**Water body identification code:** UKGBNI1NW010102028  
**Catchment stakeholder group:** Upper Foyle  
**Local management area:** Owenkillew  
**2015 Objective:** Moderate Status  
**2021 Objective:** Moderate Status  
**2027 Objective:** Moderate Status









**The type of this water body is:** Alkalinity 10-50 (as mg/l of CaCO<sub>3</sub>)  
**2005 risk assessment:** 1a - At risk

**Current overall status:** Moderate   
 ( Confidence in overall status: High )

Benthic invertebrates: Good   
 Macrophytes: Good   
 Phytobenthos: High   
 Pearl mussel: Moderate   
 Dissolved oxygen: High   
 Soluble reactive phosphorus: High   
 pH: High   
 Ammonia: High 

Biochemical oxygen demand\*: High   
 Temperature\*: High 

Hydrological regime: High 

Chloroform (trichloromethane): Good   
 Dissolved copper: Failing to achieve good   
 Carbon tetrachloride: Good   
 1,2-Dichloroethane: Good   
 Phenol: Good   
 Tetrachloroethylene: Good   
 Trichloroethylene: Good   
 Total zinc: Good 

\* This element does not contribute to overall classification.

For more information on the classification process see: [http://www.ni-environment.gov.uk/water-home/wfd/north\\_western\\_rbp/nw-riverslakes.htm](http://www.ni-environment.gov.uk/water-home/wfd/north_western_rbp/nw-riverslakes.htm)


**Water body name:** Owenkillew Newtownstewart (17) #  
**Water body identification code:** UKGBNI1NW010102028  
**2009 status:** Moderate  
**2015 Objective:** Moderate  
**Upstream water bodies:** Owenkillew River Gortin (13)  
 ( UKGBNI1NW010102027) Glenelly River (16)  
 ( UKGBNI1NW010102073) Glenelly River  
 (18) ( UKGBNI1NW010102096)  
**Downstream water body:** Mourne River ( UKGBNI1NW010102074)








| Problem              | Solution  |   |                     |         |
|----------------------|---|---|---------------------|---------|
| Failing Element      | Action to be taken  | Action to be taken by   | Make operational by |         |
| Pearl Mussel, Copper | 1   | Assessment of river conditions through research and river surveys to locate sources of sediment   | INTERREG IVA        | 2011    |
|                      | 2   | Develop action plans for designated Freshwater Pearl Mussel Special Areas of Conservation   | INTERREG IVA        | 2011    |
|                      | 3   | Identify river remedies and possible options to improve Freshwater Pearl Mussel conditions and enhance recruitment  | INTERREG IVA        | 2011    |
|                      | 4   | Investigate possible sources of Copper to surface waters.   | DOE NIEA            | 2011    |
|                      | 5   | Assess sources of organic pollution including agriculture, NIW intermittent discharges, WWTW, sewage pumping stations and septic tanks (domestic and private).            | DOE NIEA            | 2010    |
|                      | 6   | Investigate performance of industrial and private discharges to establish potential sources of pollution and review discharge compliance monitoring or IPPC site licence. | DOE NIEA            | 2011    |
|                      | 7   | Continue to monitor fish populations and investigate the feasibility of habitat improvement as required   | Loughs Agency       | Ongoing |
|                      | 8   | Continue regulatory investigation and action against unlicensed activities impacting on fish populations and habitats   | Loughs Agency       | Ongoing |
|                      | 9   | Carryout Rapid Hydro morphology Assessment Technique (RHAT) survey to assess morphological impacts  | DOE NIEA            | 2010    |
|                      | 10  | Conduct local management area investigative surveys to assess benthic invertebrates   | DOE NIEA            | 2010    |
|                      | 11  | Monitor fish populations at selected sites  | Loughs Agency       | 2010    |
|                      | 12  | Consider site restoration and protection methods to reduce sedimentation and improve habitat.   | INTERREG IVA        | 2011    |
|                      | <a href="#">A number of catchment wide actions also apply to this water body. These can be found on Page 8.</a> |   |                     |         |

# number in brackets refers to Map 3.

**Water body name:** Glenknock River  
**Water body identification code:** UKGBNI1NW010102096  
**Catchment stakeholder group:** Upper Foyle  
**Local management area:** Owenkillew  
**2015 Objective:** Good Status  
**2021 Objective:** Good Status  
**2027 Objective:** Good Status

**The type of this water body is:** Altitude <80m, alkalinity 50-100 (as mg/l of CaCO<sub>3</sub>)  
**2005 risk assessment:** 1a - At risk

**Current overall status:** Moderate   
 ( Confidence in overall status: Low )

Benthic invertebrates: Moderate   
 Macrophytes: Moderate   
 Dissolved oxygen: High   
 Soluble reactive phosphorus: High   
 pH: High   
 Ammonia: High   
 Biochemical oxygen demand\*: High 

Hydrological regime: High   
 Morphological conditions: Moderate 

\* This element does not contribute to overall classification.

For more information on the classification process see: [http://www.ni-environment.gov.uk/water-home/wfd/north\\_western\\_rbp/nw-riverslakes.htm](http://www.ni-environment.gov.uk/water-home/wfd/north_western_rbp/nw-riverslakes.htm)

**Water body name:** Glenknock River (18) #  
**Water body identification code:** UKGBNI1NW010102096  
**2009 status:** Moderate  
**2015 Objective:** Good  
**Upstream water bodies:**  
**Downstream water body:** Owenkillew Newtownstewart (17)  
 ( UKGBNI1NW010102028)

| Problem                    | Solution  |  |                                    |                     |
|----------------------------|---|--|------------------------------------|---------------------|
|                            | Failing Element   | Action to be taken   | Action to be taken by              | Make operational by |
| Invertebrates, Macrophytes | 1   | Assessment of river conditions through research and river surveys to locate sources of sediment  | INTERREG IVA                       | 2011                |
|                            | 2   | Conduct local management area investigative surveys to assess benthic invertebrates  | DOE NIEA                           | 2010                |
|                            | 3   | Carry out a river walk to determine and address sources of organic pollution affecting benthic invertebrates and resulting in low biotic scores and/or observed sewage fungus.               | DOE NIEA                           | 2011                |
|                            | 4   | Assess sources of organic pollution including agriculture, NIW intermittent discharges, WWTW, sewage pumping stations and septic tanks (domestic and private).                               | DOE NIEA                           | 2010                |
|                            | 5   | Continue to monitor fish populations and investigate the feasibility of habitat improvement as required  | Loughs Agency                      | Ongoing             |
|                            | 6   | Continue regulatory investigation and action against unlicensed activities impacting on fish populations and habitats  | Loughs Agency                      | Ongoing             |
|                            | 7   | Targeted education, advice and regulatory action to prevent pollution and protect the water environment  | DOE NIEA                           | 2011                |
|                            | 8   | Investigate agricultural practices in the catchment through river walks and analysis of agricultural pollution incidents and cross compliance data and carry out site visits where necessary | DOE NIEA                           | 2010                |
|                            | 9   | Raise awareness of the issue of pesticide use and disposal   | DOE NIEA                           | 2011                |
|                            | 10  | Promote best practice in the use of pesticides on farms  | DARD Countryside Management Branch | 2011                |
|                            | <a href="#">A number of catchment wide actions also apply to this water body. These can be found on Page 8.</a> |  |                                    |                     |

# number in brackets refers to Map 3.

## Abbreviations

| <b>Term</b>     | <b>Explanation</b>  |
|-----------------|---|
| AFBI            | Agri-Food and Biosciences Institute   |
| ASSI            | Area of Special Scientific Interest   |
| DARD            | Department of Agriculture and Rural Development   |
| DOE             | Department of the Environment   |
| INTERREG<br>IVA | The INTERREG IVA Programme for Northern Ireland, the Border Region of Ireland and Western Scotland is a European Union supported Structural Funds Programme which seeks to address the economic and social problems which result from the existence of borders. It supports strategic cross-border co-operation for a more prosperous and sustainable region. |
| NIEA            | Northern Ireland Environment Agency   |
| WWTW            | Waste Water Treatment Works   |





Our aim is to protect, conserve and promote the natural environment and built heritage for the benefit of present and future generations.

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