

# Salmon Watch Ireland Newsletter

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## Ecological Disaster on the Blackwater Warns of Wider Threat to Irish Rivers

In recent weeks, the Munster Blackwater suffered a devastating ecological blow, with reports of up to 40,000 fish killed in a single pollution incident. An exact number may be impossible to predict.

While agriculture remains the dominant long-term pressure on the catchment, the scale and suddenness of this tragedy may suggest that an acute pollution event possibly linked to wastewater, industry, or an accidental discharge may have tipped an already fragile river system into collapse.

The Blackwater, designated under the EU Habitats Directive for salmon, lamprey, and freshwater pearl mussel, is not only an ecological jewel but also a cultural and economic lifeline for the region. This fish kill has underlined just how vulnerable the river has become.

### The State of the Blackwater. What the Science Tells Us.

Research presented at the Teagasc Dairy Conference 2024 shows:

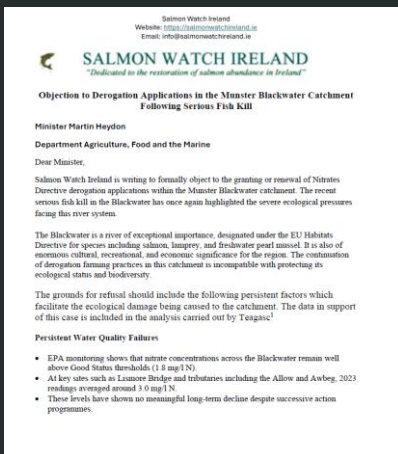
- Ireland’s water quality is under strain: just over half of rivers meet “Good Status” under the Water Framework Directive.
- In the Blackwater catchment, 66% of waters are High/Good, but nitrate levels remain persistently high (average ~3 mg/l N at Lismore Bridge) — above the 1.8 mg/l N threshold for good health.
- Agriculture is the dominant contributor (>80%) of nitrogen loads, but cumulative pressures from wastewater, urban runoff, and potential industrial releases make the system highly vulnerable.
- Over 20% of farms exceed 170 kg N/ha organic loading, with some sub catchments exceeding 30–40%.

The Teagasc-led “Better Farming for Water: 8 Actions for Change” campaign outlines urgent steps needed:

- Expanding slurry storage.
- Preventing yard and roadway run-off.
- Greater use of over-winter cover crops.
- Smarter nutrient management, especially on risk soils.
- Collaborative farmer–community action.

## Salmon Watch Ireland Letter to relevant Ministers concerning Nitrates Derogation Application River Blackwater

[Here](#)



## Teagasc Dairy Conference

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## Salmon Watch Ireland Policy Document 2025

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### Explainer: How Excess Nutrients Kill Rivers

When too much nitrogen (N) and phosphorus (P) enter a river, they act like over-fertiliser. This process, called eutrophication, destabilises the ecosystem:

- Algal Blooms and Excessive macrophyte growth– Nutrients fuel rapid excessive growth.
- Oxygen Swings – Algae and plants produce oxygen by day, but at night and when they die (Photographic evidence from the substrate during the fish kill suggest large scale die off of algal growth) bacteria decompose them, consuming massive amounts of oxygen.
- Oxygen Collapse – Fish and insects need dissolved oxygen. If levels crash, they suffocate. Warm weather elevates water temperature (Less dissolved oxygen) and low river flows make this worse.
- Habitat Smothering – Sediment and algae choke gravels where salmon and trout spawn.

In the Blackwater, chronic nutrient enrichment from agriculture had already weakened the system. The recent acute pollution potentially linked to wastewater, industry, or an accidental release likely triggered the collapse. However, warm water conditions and sudden algal die-off may also have caused the sharp drop in oxygen that caused the mass fish mortality.

### Our Policy on Nitrates Derogation

Salmon Watch Ireland has formally objected to the renewal of Nitrates Directive derogations in the Blackwater, arguing that allowing higher stocking rates than the EU's 170 kg N/ha limit undermines water protection.

We have highlighted the following factors:

- Persistent nutrient pollution, with no long-term decline despite action plans.
- The recent fish kill as proof of the system's fragility.
- EU obligations under the Water Framework Directive (2027 deadline) and Nitrates Directive.
- The risk of legal challenge and EU infringement proceedings if derogations continue.

At the same time, all interested stakeholders and campaigners are demanding a full investigation into the fish kill to determine whether industrial discharge, wastewater failures, or an accidental discharge triggered the collapse — compounding the ongoing nutrient pressures.

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### **The Way Forward**

To protect the Blackwater — and Ireland's rivers — we need urgent, joined-up action:

1. Cap stocking rates at 170 kg N/ha.
2. Invest in slurry storage and nutrient efficiency schemes.
3. Strengthen monitoring of wastewater and industrial discharges, with real-time alerts and rapid response.
4. Publish transparent catchment-level water quality reports.
5. Ensure accountability: the fish kill investigation must inform future water and agricultural policy.
6. Ensure effective monitoring of the river to guide the remediation of habitats impacted by this event. This should include invertebrate surveys and broader ecological assessments to establish a clear baseline against which future recovery can be measured.

### **Closing Message**

The Blackwater is a living river system of extraordinary beauty and biodiversity. But it is fragile. Chronic nutrient stress from farming, combined with acute shocks from possible wastewater or industrial pollution, has pushed it to the brink.

**We would also like to express our gratitude to all the angling and conservation fraternity who have worked tirelessly to highlight this tragedy. We strongly support your efforts and will help in any way possible to bring this river back to health**

**This fish kill is more than a tragedy — it is a warning. Without decisive action, Ireland's rivers face the same fate.**