

## Overview

This standard is about being able to respond to fish-kill incidents by removing and disposing of dead fish, taking action to reduce or remove the cause of the fish-kill and working to prevent further fish deaths. It includes the ability to work alongside other people.

This standard requires that you carry out work safely, in line with relevant legal and health and safety requirements and that you work to maintain bio-security and minimise environmental disturbance at all times.

The relevant legislation controlling the application of this standard will vary depending on the location in England, Wales, Northern Ireland or Scotland

## Performance criteria

### *You must be able to:*

1. carry out all activities required to safely respond to a fish-kill incident, in line with the relevant health and safety requirements
2. monitor a fish-kill incident to determine the nature and likely cause of fish stress or death and report to the appropriate authority
3. select and use appropriate personal protective equipment (PPE) for the work required
4. prepare and maintain equipment to the required standard for responding to fish-kill incidents
5. deploy equipment to control and minimise the impact of the fish kill incident
6. prepare holding units to receive and maintain the condition of live fish captured from the fish-kill incident
7. use catching methods to effectively catch and remove live fish, as appropriate
8. obtain and accurately label samples from the fish-kill incident in order to support investigations
9. monitor and observe the impact of interventions to prevent further fish-kill incidents
10. dispose of dead fish and waste according to legal, environmental and organisational requirements
11. maintain levels of hygiene and bio-security when responding to fish-kills incidents
12. clean and store fish-catching equipment after use
13. maintain accurate information to keep up-to-date records on fish kill incidents

## Knowledge and understanding

### *You need to know and understand:*

1. the relevant health and safety requirements associated with responding to fish-kill incidents
2. the equipment required to respond to fish-kill incidents
3. the importance of using the correct personal protective equipment (PPE)
4. the causes of fish stress or death and why it is important to report to the appropriate authority
5. how algal blooms can cause stress in fish
6. how to recognise stress in fish
7. how to recognise common fish diseases
8. what is classified as a fish-kill incident
9. the roles and responsibilities of the agencies responsible for dealing with fish-kill incidents
10. the importance of maintaining hygiene and bio-security during fish-kill incidents
11. how to respond to a fish-kill incident
12. how to report fish-kills following the procedures and requirements of your organisation
13. common causes of pollution and the methods used to reduce its impact on live fish and the environment
14. aeration and its use in responses to fish-kills
15. how to collect, store and dispatch water samples as well as samples of live and dead fish
16. the relevant legal, environmental and organisational requirements that control the disposal of waste from fish-kill incidents

## Glossary

Possible causes of the fish-kill incident including:

1. low oxygen levels
2. pollution incidents
3. poor environmental management
4. water shortages
5. biological agents
6. disease

Equipment:

1. splashing aeration
2. air-injection aeration
3. hydrogen peroxide aeration
4. booms
5. spill kits

Interventions

The actions taken to lessen the impact of the incident e.g. the removal of live fish, the deployment of aeration, the deployment of booms.

Holding units

Equipment used to hold live fish e.g. buckets, dustbins, tanks, etc

## Respond to a fish kill incident

---

<b>Developed by</b>	Lantra
<b>Version Number</b>	1
<b>Date Approved</b>	01 Jan 2018
<b>Indicative Review Date</b>	01 Feb 2021
<b>Validity</b>	Current
<b>Status</b>	Original
<b>Originating Organisation</b>	Lantra
<b>Original URN</b>	LANFiM31
<b>Relevant Occupations</b>	Owner/Manager, Ghillie, Bailiff/Warden, Head Bailiff, Superintendent, Fishery Manager, Senior Fishery Manager, Fisheries Biologist, Field Assistant, Fisheries Development Officer
<b>Suite</b>	Environmental Conservation, Fisheries Management, Incident Management in the Land-based Sector
<b>Keywords</b>	fish; kill; incidents; dispose; remove

---