STATUTORY INSTRUMENTS

1997 No. 2471 (S. 163)

WATER, SCOTLAND

The Surface Waters (Fishlife) (Classification) (Scotland) Regulations 1997

Made	9th October 1997
Laid before Parliament	28th October 1997
Coming into force	18th November 1997

The Secretary of State, in exercise of the powers conferred on him by sections 30B and 104(1) of the Control of Pollution Act 1974(1), and, being a Minister designated(2) for the purposes of section 2(2) of the European Communities Act 1972(3) in relation to measures relating to the prevention, reduction and elimination of pollution of water, in exercise of the powers conferred on him by that section, hereby makes the following Regulations:

Citation, commencement and interpretation

1.—(1) These Regulations may be cited as the Surface Waters (Fishlife) (Classification) (Scotland) Regulations 1997 and shall come into force on 18th November 1997.

(2) Expressions used in these Regulations which are also used in Directive 78/659/EEC(4) (the quality of fresh waters needing protection or improvement in order to support fish life) shall have the same meaning as in that Directive.

Classification of waters

2. The classifications SW ("salmonid waters") and CW ("cyprinid waters"), and the criteria for those classifications set out in the Schedule to these Regulations, shall apply for classifying controlled waters which are fresh waters which need protection or improvement in order to support fishlife.

 ¹⁹⁷⁴ c. 40; section 30B was inserted, as part of a substitution of a new Part II of the Act, by the Water Act 1989 (c. 15), section 169 and Schedule 23, paragraph 4, and section 104(1) was amended by the Water Act 1989, section 169 and Schedule 23, paragraph 7 and by the Environment Act 1995 (c. 25) Schedule 22, paragraph 29(34).
 S.I. 1989/2393.

⁽²⁾ S.I. 1989/2
(3) 1972 c. 68.

⁽⁴⁾ O.J. No. L222, 14.8.1978, p.1.

Compliance with relevant requirements

3.—(1) Subject to paragraphs (2) and (3) below, any waters classified under these Regulations shall be treated in relation to any period of twelve months as complying with the requirements specified in the Schedule to these Regulations for waters of the relevant class for any parameter if in that period in relation to those waters–

- (a) in the case of the parameter for pH, non-ionized ammonia, total ammonium, total residual chlorine or total zinc, 95 per cent of the samples taken for that parameter in accordance with regulation 4 below comply with the requirements;
- (b) in the case of the parameter for temperature or dissolved oxygen, the percentage specified in that Schedule of samples taken for that parameter in accordance with regulation 4 below comply with the requirements.

(2) When the frequency of sampling is lower than one sample per month for any parameter mentioned in paragraph (1)(a) above in relation any waters classified under these Regulations, 100 per cent of samples taken for that parameter in accordance with regulation 4 in relation to those waters must comply with the requirements specified in the Schedule to these Regulations for waters of the relevant class.

(3) Non-compliant samples shall be ignored for the purposes of paragraphs (1) and (2) above if they are the result of a flood or any other natural disaster.

Sampling and analysis

4.—(1) The Scottish Environment Protection Agency shall ensure that waters classified under these Regulations are sampled and samples are analysed in accordance with the following provisions of this regulation.

(2) Samples in relation to any waters classified under these Regulations shall always be taken at the same sampling point.

(3) The Scottish Environment Protection Agency shall fix the exact position of the sampling point, and the depth at which samples are to be taken, having regard in particular to-

- (a) the distance of the sampling point to the nearest point where pollutants are discharged; and
- (b) local environmental conditions.

(4) Subject to paragraphs (5) and (6) below, sampling for any parameter shall be carried out at least at the minimum frequency specified in the Schedule to these Regulations for that parameter for waters of the relevant class.

(5) Where the Scottish Environment Protection Agency's records show that the quality of any waters classified under these Regulations is appreciably higher for any parameter than the minimum required by these Regulations for waters of that class, the Agency may reduce the sampling frequency for that parameter or, if there is no pollution and no risk of deterioration of its quality, it may dispense with sampling for that parameter altogether.

(6) Where sampling shows that the requirements of regulation 3 above are not being complied with, the Scottish Environment Protection Agency shall establish whether this is the result of chance, a natural phenomenon or pollution and shall adopt appropriate measures.

(7) Samples for any parameter shall be analysed using the reference methods of analysis specified in the Schedule to these Regulations in relation to that parameter or methods which are at least as reliable as the reference methods.

Derogations

5.—(1) The Scottish Environment Protection Agency may derogate from the requirements of these Regulations–

- (a) in the case of requirements marked (0) in the Schedule to these Regulations, because of exceptional weather or special geographical conditions; or
- (b) where waters classified under these Regulations undergo natural enrichment in certain substances as a result of which they do not comply with the requirements specified in the Schedule to these Regulations for waters of the relevant class.

(2) In this regulation, "natural enrichment" means a process whereby without human intervention a given body of water receives from the soil certain substances contained therein.

Modification of section 30C of the Control of Pollution Act 1974

6. Section 30C of the Control of Pollution Act 1974(5) (water quality objectives) shall have effect-

- (a) as if it imposed a duty on the Secretary of State to exercise the powers conferred on him by that section to classify under these Regulations such waters as are appropriate for the purposes of giving effect to Directive 78/659/EEC in Scotland; and
- (b) in relation to the performance of that duty, as if subsections (4) and (5) of that section were omitted.

Information required in connection with implementation of the Directive

7.—(1) The Scottish Environment Protection Agency may serve on any person a notice requiring that person to furnish the Agency within a period or at times specified in the notice, and in a form and manner so specified, with such information as is reasonably required by the Agency for the purposes of giving effect to Directive 78/659/EEC.

(2) A person who fails without reasonable excuse to comply with the requirements of a notice served on him under this regulation shall be guilty of an offence and liable–

- (a) on summary conviction, to a fine not exceeding the statutory maximum;
- (b) on conviction on indictment, to a fine or to imprisonment for a term not exceeding two years, or both.

St Andrew's House, Edinburgh 9th October 1997 Sewel Parliamentary Under Secretary of State, Scottish Office

⁽⁵⁾ c.40; section 30C was inserted by section 169 and paragraph 4 of Schedule 23 to the Water Act 1989 (c. 15) and was amended by section 120 and paragraph 29(2) and (4) of Schedule 22 to the Environment Act 1995 (c. 25).

Status: This is the original version (as it was originally made). This item of legislation is currently only available in its original format.

SCHEDULE

Regulations 2, 3 and 4

PART I

CRITERIA FOR CLASSIFICATION OF WATERS AS SALMONID AND CYPRINID WATERS

No. in Annex 1 to 78/659/— EEC	Parameter	for for salmonid cyr	be isfied	Methods of analysis or inspection	Minimum sampling and measuring frequency	Observations
1.	Temperature (°C)	measured downstream of a point of thermal discharge (at the edge of a mixing zone) must not exceed the unaffected temperature by more than 1.5°C for			Weekly, both upstream and downstream of the point of thermal discharge.	Over- sudden variations in temperature must be avoided.
		Derogations limited geographical scop be decided by the Environment Prote Agency if the Age show that there are harmful conseque the balanced deve of the fish populat	e may Scottish ection ency can e no nces for lopment			
		2. Thermal di must not cau temperature dow of the point of discharge (at th of the mixing a exceed-	use the wnstream thermal he edge			
		waters v	at other or in ase of which do tain such			

No. in Annex 1 to 78/659/— EEC	Parameter	to be satisfied for salmonid waters	is Requirement to be satisfied for cyrpinid waters	s Methods of analysis or inspection	Minimum sampling and measuring frequency	Observations
		21.5°C (0) fo waters and 28 cyprinid wate	8°C (0) for			
		Temperature however, be e 2% of the tim	exceeded for			
2.	Dissolved oxygen (mg/1 0 ₂)	falls below 6mg/1, the Scottish Environment Protection Agency shall comply with regulation 4(6 and the Agency must prove that this situation will have no harmful consequences for the balanced development of the fish	$50\% \ge 7$ When the oxygen concentration falls below 4mg/1, the Scottish Environment Protection Agency shall comply with 6)egulation 4(6 and the Agency must prove that this situation will have no harmful sconsequences for the balanced development of the fish population.	chemical method).	Monthly, minimum one sample representative of low oxygen conditions on the day of sampling. However, where major daily variations are suspected, a minimum of two samples in one day shall be taken.	
3.	рН	population. 6 to 9 (0)	population.	Electrometry calibration	Monthly	
		Artificial pH with respect t unaffected va not exceed +(unit within th falling betwee 9 provided th variations do the harmfulne	to the lues shall 0.5 of a pH limits en 6 and at these not increase	by means of two solutions with known pH values, preferably on either side of, and close to the		

Status: This is the original version (as it was originally made). This item of legislation is currently only available in its original format.

No. in Annex 1 to 78/659/— EEC	Parameter	Requirements Requirements Requirementsto beto besatisfiedsatisfiedforforsalmonidcyrpinidwaterswaterssubstances present in thewater.	ts Methods of Minin analysis or samp inspection and measu freque pH being measured	ling uring
8.	Phenolic compounds (mg/1C ₆ H ₅ OH)	Phenolic compounds must not be present in such concentrations that they adversely affect fish flavour.	By taste.	An examination by taste shall be made only where the presence of phenolic compounds is presumed.
9.	Petroleum hydrocarbons	 Petroleum products must s not be present in the water in such quantities that they– (a) form a visible film on the surface of the water or form coatings on the beds of water-courses and lakes; (b) impart a detectable "hydrocardon" taste to fish; (c) produce harmful effects on fish. 	Visual. Month By taste.	hly. A visual examination shall be made regularly once a month, with an examination by taste only where the presence of hydrocarbons is presumed.
10.	Non-ionised ammonia (mg/1 NH ₃)	≤ 0.025	Molecular Month absorption spectrophotometry using indophenol blue or Nessler's method associated with pH and temperature determination.	hly. Values for non-ionised ammonia may be exceeded in the form of minor peaks in the daytime.
11.	Total ammonium (mg/1 NH ₄)	In order to diminish the risk of toxicity due to non-ionised ammonia, of oxygen consumption due to nitrification and of eutrophication, the	Molecular Month absorption spectrophotometry using indophenol blue or	ıly.

No. in Annex 1 to 78/659/— EEC	Parameter	to be satisfied for salmonid waters	nts Requirement to be satisfied for cyrpinid waters	analysis or inspection	Minimum sampling and measuring frequency	Observations
		concentratio ammonium exceed 1 mg	should not	Nessler's method associated with pH and		
		or climatic c particularly low water te of reduced n or where the Environmen Agency can there are no consequence	emperature and itrification 2 Scottish t Protection show that harmful es for the velopment of ulation, the v fix a value	temperature determination	ι.	
12.	Total residual chlorine (mg/1 HOC1)	≤ 0.005		DPD- method (diethyl-p- phenylenedia: mene)	Monthly -	The value corresponds to pH = 6 Higher concentrations of total chlorine can be accepted if the pH is higher.
13.	Total Zinc (mg/1 Zn)	≤ 0.3	≤ 1.0	Atomic Absorption spectrometry.	Monthly.	The values correspond to a water hardness of 100 mg/1 CaCO ₃ .
						For hardness levels between 10 and 500 mg/1 corresponding limit values can be found in

found in

Status: This is the original version (as it was originally made). This item of legislation is currently only available in its original format.

No. in Annex 1 to 78/659/— EEC	Parameter	Requirements to be satisfied for salmonid waters	Requirements to be satisfied for cyrpinid waters	Methods of analysis or inspection	Minimum sampling and measuring frequency	Observations
						the Table in Part II of this Schedule.

PART II

ZINC CONCENTRATIONS (mg/1 Zn) FOR DIFFERENT WATER HARDNESS VALUES BETWEEN 10 AND 500 mg/1 CaCO₃

Classification of waters	Water hard	Water hardness (mg/1 CaC0 ₃)						
	10	50	100	500				
Salmonid waters (mg/1 Zn)	0.03	0.2	0.3	0.5				
Cyprinid waters (mg/1 Zn)	0.3	0.7	1.0	2.0				

EXPLANATORY NOTE

(This note is not part of the Regulations)

These Regulations prescribe a system for classifying the quality of inland waters which need protection or improvement in order to support fishlife.

The classifications SW ("salmonid waters") and CW ("cyprinid waters") reflect the mandatory values assigned by Directive 78/659/EEC (on the quality of fresh waters needing protection or improvement in order to support fishlife) to the parameters listed in the Schedule to these Regulations.

The Regulations also incorporate the reference methods of measurement, and the minimum frequency required for sampling and analysis, laid down in that Directive for those parameters.

The Regulations, together with the Surface Waters (Fishlife) (Scotland) Directions 1997, transpose Directive 78/659/EEC.

Copies of the Surface Waters (Fishlife) (Scotland) Directions 1997 may be obtained from the Environment Protection Unit, Scottish Office Agriculture, Environment and Fisheries Department, Victoria Quay, Edinburgh EH6 6QQ.

Document Generated: 2023-06-28

Status: This is the original version (as it was originally made). This item of legislation is currently only available in its original format.