

This draft permit template includes some of the conditions that will normally be included within a permit for a marine finfish aquaculture site. This is for illustrative purposes only and should not be relied upon as any licence or permit granted or varied by SEPA may include other or additional conditions. Some conditions have blank fields. These require the calculation of site specific figures. This draft is subject to review. If you have any concerns or comments about the template you should contact us at [aquaculture.regulation@sepa.org.uk](mailto:aquaculture.regulation@sepa.org.uk). Please note that we may make such changes as we consider appropriate to the wording in this draft at the end of June. We also plan to provide explanatory text on the permit conditions at the end of June. We will update the template from time to time as required after that date.

# Marine Pen Fish Farm Permit

## Site Name

## Authorisation Number

July 2019

## Introduction

This introduction does not form part of the permit.

### Authorisations

**Who we are:** The Scottish Environment Protection Agency (SEPA) is a non-departmental public body of the Scottish Government, established under the Environment Act 1995. Our purpose is to make sure the environment and human health are protected, and resources and services are used sustainably.

**Why we issue authorisations:** SEPA is responsible for preventing or controlling pollution and improving the quality of the environment. This responsibility includes regulating industrial and other processes that may be capable of causing pollution of the environment. One of the tools available to SEPA is the authorisation of certain activities that may present a risk to the environment.

Anyone who wishes to carry out one of these activities has to first apply to SEPA for an authorisation, be granted the authorisation, and thereafter carry out activities in line with conditions contained within the authorisation. It is an offence under the relevant legislation to breach a condition of an authorisation.

**When we issue authorisation:** SEPA will issue an authorisation when satisfied that an applicant has put in place measures to protect the environment and is capable of carrying out activities in line with the conditions of an authorisation. Authorisations allow activities to occur and set performance outcomes based on a site's environmental risk. SEPA can amend, suspend or revoke an authorisation in response to changes in legislation, site activities or authorisation holder performance. Sites that hold an authorisation may be monitored and inspected by SEPA Officers who assess compliance with the conditions of the authorisation. All authorisations and inspection reports are publicly available.

**Enforcement:** If an authorisation holder (or site operator) fails to comply with the conditions of the authorisation it may result in enforcement action being taken against it by SEPA in accordance with SEPA's enforcement policy and guidance.

### General site information:

<b>Site Name and Location</b>	Site name and water body name
<b>Description of Authorised Activity</b>	The discharge to the water environment of fish excreta, uneaten food and other substances as listed in this permit resulting from the operation of a marine pen fish farm.
<b>Environmental risks SEPA has regulatory powers to control</b>	The impact on the water environment due to the discharge of organic material and medicine residues from a pen fish farm.

<p>This Permit has been granted by the Scottish Environment Protection Agency (SEPA) in exercise of its powers under Regulation 8 of the Water Environment (Controlled Activities) (Scotland) Regulations 2011 ("the Regulations") subject to the conditions contained in the Schedules attached to and forming part of this Permit.</p>	
<b>Authorisation (Permit) Number:</b>	<<Enter Authorisation Number>>
<b>Permit Holder (Authorised Person):</b>	<<Enter Authorised Person>>
<b>Date of Authorisation (Permit):</b>	<<Enter Date of signature, DD-MM-YYYY>>
<b>Authorised Activities:</b>	The discharge to the water environment of fish excreta, uneaten food and other substances as listed in this permit resulting from the operation of a marine pen fish farm.
<b>Authorised Place:</b>	<<Enter site name>> <<Enter location within water body, e.g. Kames Bay, or off Strone Point, etc>> <<Enter waterbody name, e.g. Loch, Voe, Sound, etc>> <<Enter Location Code NGR >>
<b>Conditions applicable to this Authorisation (Permit):</b>	The conditions in Schedules 1 to <<Enter IoT Schedule number>> of this authorisation. Terms used in this authorisation are, unless otherwise specified, defined in Schedule <<Enter IoT Schedule number>>.

Signature: ..... Date: DD/MM/YYYY

Authorised to sign on behalf of the  
Scottish Environment Protection Agency

## Contents

Schedule 1: The Authorised Person and Activity .....	3
1.1 Authorised Activity .....	3
1.2 Duty of Authorised Person .....	3
Schedule 2: Marine Pen Fish Farm Description .....	4
2.1 Fish Species .....	4
2.2 Maximum Weight of Fish .....	4
2.3 Fallow Period .....	4
2.4 Pen Configuration .....	5
Schedule 3: Medicine Use.....	7
3.1 Medicine Minimisation.....	7
3.2 Medicines and Chemical Use .....	7
3.3 Permitted Substance List <b>OR</b> Permitted Substance Working Plan	7
3.4 Bath Sea Lice Medicines .....	7
3.5 In-feed Sea Lice Medicines.....	8
3.6 Notification of Medicines Use.....	9
Schedule 4: Seabed Standards.....	10
4.1 Biological Seabed Standards.....	10
4.2 Chemical Seabed Standards .....	10
Schedule 5: Environmental Monitoring.....	11
5.1 Seabed and Water Monitoring Plan .....	11
Schedule 6: Environmental Events.....	12
6.1 Notification of SEPA.....	12
6.2 Management of the Event.....	12
6.3 Report of the Event .....	12
Schedule 7: Record Keeping and Data Submission.....	13
7.1 Data Recording.....	13
7.2 Data Reporting.....	13
Schedule 8: Interpretation of Terms .....	15

## Schedule 1: The Authorised Person and Activity

*The purpose of Schedule 1: This section set outs what the authorised activity is and places responsibility on the Authorised Person for ensuring compliance with the permit conditions.*

### **1.1 Authorised Activity**

- 1.1.1 The Authorised Activity is the discharge to the water environment of fish excreta, uneaten food and other substances as listed in this permit resulting from the operation of a marine pen fish farm.

### **1.2 Duty of Authorised Person**

- 1.2.1 The Authorised Person must ensure compliance with all the conditions of the permit.

DRAFT - Do Not Publish

## Schedule 2: Marine Pen Fish Farm Description

*The purpose of Schedule 2: To limit the scale of the impact from the activity by controlling the maximum weight of fish, fallow periods and the specific location and layout of the fish farm.*

### 2.1 Fish Species

- 2.1.1 Only Atlantic Salmon (*Salmo salar*) OR Rainbow Trout (*Oncorhynchus mykiss*) may be farmed at the site.

### 2.2 Maximum Weight of Fish

- 2.2.1 The maximum weight of Atlantic Salmon OR Rainbow Trout held on site at any one time must not exceed <<Enter Value>>kg.

### 2.3 Fallow Period

- 2.3.1 There must be a minimum period of 42 consecutive days OR 6 consecutive weeks between every production cycle during which no Atlantic Salmon OR Rainbow Trout shall be kept on site.
- 2.3.2 SEPA must be notified in writing within 14 days of the site being stocked.
- 2.3.3 SEPA must be notified in writing within 14 days of the site being fallowed.
- 2.3.4 **OPTIONAL Delete if not required** The site must be operated in accordance with the Management Agreement concluded between <<Enter Party A>>, <<Enter Party B>> and <<Enter Party C (if applicable, else delete)>>, reference <<Enter Reference>> dated <<Enter Date>>.

## 2.4 Pen Configuration

2.4.1 The fish pens must be configured as set out in Table 1.

**Table 1 Pen Configuration**

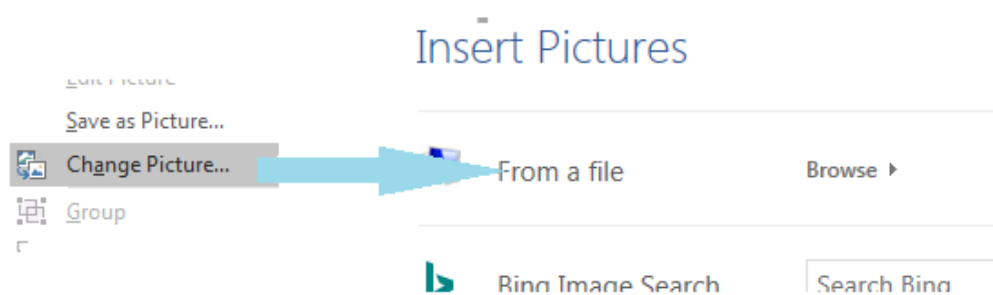
Number of pens	<<Enter Value>>	
Circumference of pens	<<Enter Value, in metres>> m	
Depth of nets	<<Enter Value, in metres>> m	
Number of different pens groups	<<Enter Value>>	
Number of pens in each group	<<Enter Value>>	
Number of pens in row 1	<<Enter Value>>	
Number of pens in row 2	<<Enter Value>>	
Gap between each pen	<<Enter Value, in metres>> m	
<b>OPTIONAL Delete if not required</b> Gap between pen groups	<<Enter Value, in metres>> m	
Pen Group 1 NGR at mooring buoys	<<Enter NGR 1>>	<<Enter NGR 2>>
	<<Enter NGR 3>>	<<Enter NGR 4>>
<b>OPTIONAL Delete if not required</b> Pen Group 2 NGR at mooring buoys	<<Enter NGR 5>>	<<Enter NGR 6>>
	<<Enter NGR 7>>	<<Enter NGR 8>>

2.4.2 The fish pens must be located within the area bounded by a line drawn from National Grid Reference (NGR) NGR <<Enter NGR 1>> then to NGR <<Enter NGR 2>> then to NGR <<Enter NGR 3>> then to NGR <<Enter NGR 4>> and then to NGR <<Enter NGR 1>> , as delineated in [colour] in Figure 1.

**Figure 1 Fish Pen Location**

Right-click and select 'Change Picture'

Then Browse to your file location





## Schedule 3: Medicine Use

*The purpose of Schedule 3: SEPA expects the Authorised Person to manage their site in such a way that it minimises the discharge of medicines into the water environment. Where it is necessary to use medicines the conditions control their use to meet environmental standards.*

### 3.1 Medicine Minimisation

- 3.1.1 All reasonable steps must be taken to minimise the discharge of medicines and medicine residues.

### 3.2 Medicines and Chemical Use

- 3.2.1 **OPTIONAL - Use ONLY if site has a new Permitted Substance List** Only those medicines and chemicals specifically authorised in this Permit or in the Permitted Substance List (the PSL) <<Enter the Document name, Reference number, Version number, Date of document>> may be discharged to the water environment.

- 3.2.2 **OPTIONAL - Use ONLY if site does NOT have a new Permitted Substance List** Only those medicines and chemicals specifically authorised in this Permit or in the Permitted Substance Working Plan (the PSWP) <<Enter the name, reference number, version number and date of the current PSWP>> may be discharged to the water environment.

### 3.3 Permitted Substance List **OR** Permitted Substance Working Plan

- 3.3.1 **OPTIONAL - Use ONLY if site has a new Permitted Substance List** All medicines and chemicals named in the Permitted Substances List (PSL) <<Enter the Document name, Reference number, Version number, Date of document>> must be used in accordance with the limits specified in the PSL.

- 3.3.2 **OPTIONAL - Use ONLY if site does NOT have a new Permitted Substance List** All medicines and chemicals named in the Permitted Substances working Plan (PSWP) <<Enter the name, reference number, version number and date of the current PSWP>> must be used in accordance with the limits specified in the PSWP.

### 3.4 Bath Sea Lice Medicines

- 3.4.1 The medicines in Table 2 must only be discharged following treatment of the fish within an enclosure fully separated from the water environment.

**Table 2 Permitted Medicine - Bath**

Medicine name	Active ingredient
Salmosan, Salmosan Vet or Azasure	Azamethiphos
AMX or ALPHAMAX	Deltamethrin

- 3.4.2 The enclosure in which fish are treated with <<Enter Medicine Name>> must be no more than <<Enter Value>>% of the full pen volume.

- 3.4.3 The enclosure in which fish are treated with <<Enter Medicine Name>> must be no more than <<Enter Value>>% of the full pen volume.
- 3.4.4 The quantity of medicines in Table 2 used must not exceed:
- a) <<Enter Value>> grams of azamethiphos in any 24 hour period.
  - b) **OPTIONAL Delete if not required** <<Enter Value>> grams of azamethiphos in any 3 hour period.
  - c) <<Enter Value>> grams of deltamethrin in any <<Enter value>> hour period.
- 3.4.5 The medicines in Table 2 must not be combined with each other or with any other substance or compound during any treatment in a single pen.
- 3.4.6 When multiple pens are being treated at the same time, only one of the medicines in Table 2 may be used at the site.
- 3.4.7 The medicines in Table 2 must not be discharged within 24 hours of the discharge of any bath treatment medicine from a wellboat at the site.

### 3.5 In-feed Sea Lice Medicines

**Table 3 Permitted Medicine – in-feed**

Medicine name	Active ingredient
Slice or Quinafish	Emamectin benzoate

- 3.5.1 Any treatment with the medicine in Table 3 must be carried out over a 7-day period.
- 3.5.2 Subject to 3.5.3 and 3.5.4, the total quantity of the medicine in Table 3 used in any treatment must not exceed 50 micrograms per kilogram of Atlantic Salmon **OR** Rainbow Trout treated per day.
- 3.5.3 Subject to 3.5.4, the total quantity of the medicine in Table 3 which may be used in any treatment may be increased to a maximum of 60 micrograms per kilogram of Atlantic Salmon **OR** Rainbow Trout treated per day, where it has been authorised in writing by a registered veterinarian.
- 3.5.4 **EXISTING SITES ONLY - Delete if not required** Any treatment of the medicine in Table 3 must not exceed the maximum environmental quantity of <<Enter Value>> grams.
- 3.5.5 **NEW SITES ONLY - Delete if not required** The maximum quantity of the medicine in Table 3 which can be used in a treatment must not exceed <<Enter Value>> grams.
- 3.5.6 **NEW SITES ONLY - Delete if not required** Following a treatment of the medicine in Table 3 as outlined in 3.5.5, no further treatments of the medicine in Table 3 may be carried out for 5 years.

### 3.6 Notification of Medicines Use

- 3.6.1 SEPA must be given the information required in Table 4 no fewer than 2 working days before using any medicine in Table 2.

**Table 4 Bath Medicine Notifications**

Medicine type	Information required
Bath medicines	Amount of medicine to be used
	Amount of active ingredient to be used
	Number of pens to be treated
	Proposed start and end date of treatment

- 3.6.2 SEPA must be given the information required in Table 5 no fewer than 5 working days before using any medicine in Table 3.

**Table 5 In-Feed Medicine Notifications**

Medicine type	Information required
In-feed medicines	Biomass at start of treatment
	Biomass at end of treatment
	Amount of medicine to be used
	Amount of active ingredient to be used
	Proposed start and end date of treatment

## Schedule 4: Seabed Standards

*The purpose of Schedule 4: This section details the minimum environmental standards that must be met.*

### 4.1 Biological Seabed Standards

- 4.1.1 The seabed at the edge of the area as described in 2.4.1 and delineated in <<Enter same colour as used in 2.4.1>> in Figure 1 must contain a minimum of 2 species of re-worker polychaete worms with a combined abundance of more than 1,000 individuals per square metre.
- 4.1.2 The seabed around the fish farm at the boundary of an area of <<Enter Value>>m<sup>2</sup> (the “mixing zone”) must meet as a minimum an Ecological Quality Ratio (EQR) of 0.64 IQI at any time.

### 4.2 Chemical Seabed Standards

- 4.2.1 Emamectin benzoate concentrations must not exceed 12ng/kg (dry weight) in the seabed at the boundary of the mixing zone.

## Schedule 5: Environmental Monitoring

*The purpose of Schedule 5: This schedule requires fish farm operators to carry out environmental monitoring in line with SEPA guidance.*

### 5.1 Seabed and Water Monitoring Plan

- 5.1.1 **OPTIONAL condition for existing sites - Delete if not required** A Seabed and Water Monitoring Plan (SWMP), written in accordance with <<Enter the Document name, Reference number, Version number, Date of document>> must be submitted to SEPA no later than <<Enter Date>>.
- 5.1.2 Monitoring must be carried out in accordance with the Seabed and Water Monitoring Plan (SWMP) <<Enter the Document name, Reference number, Version number, Date of document>>.
- 5.1.3 SEPA must be notified no fewer than 14 days before monitoring is undertaken.

## Schedule 6: Environmental Events

*The purpose of Schedule 6: This section requires the cessation, prevention and reporting of any potentially polluting event and/or breach of permit condition that may arise on the site.*

### 6.1 Notification of SEPA

6.1.1 SEPA must be notified via its pollution hotline contact telephone number as soon as reasonably practicable, and in any case within 24 hours of identification of the event, of the following:

- a) any event which has caused or could cause adverse impact to the water environment or harm to human health;
- b) any event that results or could result in an emission to the water environment that is not authorised by this permit;
- c) a breach of any condition of this permit.

### 6.2 Management of the Event

6.2.1 All measures that are reasonably practicable must be taken to stop an event, as described in 6.1.1, and to minimise and/or mitigate its effect on the environment.

### 6.3 Report of the Event

6.3.1 Within 14 days of an event as described in 6.1.1, a report must be submitted to SEPA detailing:

- a) the reason(s) for the event;
- b) the action(s) taken to stop the event and minimise and/or mitigate its impacts;
- c) the action(s) taken to prevent the event from recurring.

## Schedule 7: Record Keeping and Data Submission

*The purpose of Schedule 7: This schedule requires the Authorised Person to keep records of specific activities carried out on site and to provide SEPA with specified information at regular intervals, or upon request.*

### 7.1 Data Recording

7.1.1 All information recorded, kept, or submitted to SEPA in accordance with a condition of this Permit must be true and accurate.

7.1.2 Records must be kept of the following:

- a) all medicine use notifications;
- b) start and finish dates of each sea lice medicine treatment;
- c) quantities of medicine used during each sea lice medicine treatment (grams);
- d) weight of Atlantic Salmon **OR** Rainbow Trout at end of each sea lice medicine treatment (tonnes);
- e) veterinary prescription for each sea lice medicine treatment;
- f) veterinary authorisations in accordance with Condition 3.5.3;
- g) total weight of Atlantic Salmon **OR** Rainbow Trout harvested per month (tonnes).

7.1.3 Records must be kept for a minimum of 6 years and must be provided to SEPA upon request.

### 7.2 Data Reporting

7.2.1 The information specified in Table 6 must be submitted on a quarterly basis no later than the relevant submission deadline in Table 7 of every calendar year during which the site is operational.

**Table 6 Data Reporting Requirements**

Requirement number	Information to be Submitted
1	Maximum weight of Atlantic Salmon <b>OR</b> Rainbow Trout held on site during each month (tonnes)
2	Total amount of feed used per month (tonnes)
3	Total Salmosan and/or Salmosan Vet and/or Azasure use each month (g)
4	Total AMX and/or ALPHAMAX use each month (litres)
5	Total Slice and/or Quinafish use each month (g)
6	Total azamethiphos use each month (g)
7	Total deltamethrin use each month (g)
8	Total emamectin benzoate use each month (g)
9	Total use of each anti-parasiticide listed in the PSL <b>OR</b> PSWP each month (g)
10	Total use of each anti-microbial listed in the PSL <b>OR</b> PSWP each month (g)
11	Total weight of mortalities of Atlantic Salmon <b>OR</b> Rainbow Trout each month (kg)

**Table 7 Data Reporting Submission Deadline**

Quarter	Reporting Period	Submission Deadline
1	1 January – 31 March	28 April
2	1 April – 30 June	28 July
3	1 July – 30 September	28 October
4	1 October – 31 December	28 January

- 7.2.2 Results from the analysis of all samples collected in accordance with the SWMP <<Enter the Document name, Reference number, Version number, Date of document>> must be submitted to SEPA no later than <<Enter Number of weeks>> weeks from the final date of each survey period.
- 7.2.3 Within <<Enter Number of weeks>> weeks of the end of each growth cycle a description of each of the steps taken in accordance with 3.1.1 and the dates and/or time period(s) over which they were implemented must be submitted to SEPA.
- 7.2.4 The information must be submitted via email, in the Excel Spreadsheet supplied by SEPA, to [ffbiomass@sepa.org.uk](mailto:ffbiomass@sepa.org.uk).



## Schedule 8: Interpretation of Terms

For the purposes of this Permit, and unless the context requires otherwise, the following definitions shall apply.

Term	Definition
authorised activity	Means the controlled activity which is authorised under this permit and subject to the conditions of this permit.
authorised location	Means the geographic location or locations at which the Authorised Activity is carried on.
authorised person	Means the person who is responsible for securing compliance with the terms of this permit and has been identified as such by SEPA in accordance with regulations 8(6) of the Regulations.
controlled activity	Means an activity to which the regulations apply, in accordance with regulation 3(1) of the Regulations
environmental harm	Means: (a) Harm to the health of human beings or other living organisms, (b) Harm to the quality of the water environment, including: (i) harm to the quality of the water environment taken as a whole (ii) other impairment of, or interference with, the quality of aquatic ecosystems or terrestrial ecosystems directly depending on aquatic ecosystems, (c) offence to the sense of human beings, (d) damage to property, or (e) impairment of, or any interference with, amenities or other legitimate uses of the water environment.
maximum environmental quantity	Means the maximum environmental quantity is the maximum residual quantity of Emamectin Benzoate in the environment at any one time taking into account excretion and decay of all previous treatments which if complied with will meet the environmental quantity standard at the edge of the mixing zone.
mixing zone	Means the area of seabed, as defined by SEPA, immediately under and extending outwards from a fish farm in which the discharge from the fish farm is likely to have an adverse impact on the environment.
pen	Means an enclosed cage, net or other structure in which fish are kept.
permit	Means an authorisation under regulation 8 of the Water Environment (Controlled Activities) (Scotland) Regulations 2011.

production cycle	Means the period of time that fish are on-grown in pens at sea, from juveniles until they are removed for transfer and/or slaughter.
SEPA Officer	Means any person who is authorised by SEPA under <a href="#">regulation</a> 31(4) of the Regulations to exercise the powers specified in Part 1 of Schedule 6 of the Regulations for the purposes specified in Regulation 31(5) of the Regulations.
SEPA	Means the Scottish Environment Protection Agency
the water environment	Means all Surface Water, groundwater and wetlands
weight of fish	Means the weight of fish including stomach contents and body fluids. This shall not be after any period of starvation.

Except where specified otherwise, any reference to an enactment or statutory instrument includes a reference to it as amended (whether before or after the date of the permit) and to any other enactment, which may after the date of the permit replace or amend it.