

The Water Environment (Controlled Activities) (Scotland) Regulations 2011

Licence Application FORM C2

Please fill in this form when applying to operate a new marine fish farm or for a technical variation to an existing marine fish farm permit.

How we use your personal information – Data Protection Act 2018 ('DPA 2018')

Under the Data Protection Act 2018 (DPA 2018), we must have a legal basis for processing your information – in this case, processing personal information is necessary to perform our statutory duties ('Public Task').

Some of the ways in which we collect and use the information may be through:

- granting and administering authorisations and maintaining registers
- investigating environmental complaints
- undertaking formal enforcement action
- maintaining our own accounts and records
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The personal information we collect and use may include the following: name; address, including postcode; email address and telephone number. SEPA is required, by law, to organise and maintain public registers, and make these registers available for public inspection. We do this by collecting and using the personal information that applicants (or their agents) share in their applications. After the application form has been processed, some of the information from the form is added to the public register and becomes available for public inspection. Personal email addresses, and telephone numbers are not published, unless publication is statutorily required.

There may be occasions when we are required by law to share your personal information with other organisations, e.g., for regulatory reasons, or because doing so is in the general public interest. Any sharing will be carried out lawfully and securely in accordance with the SEPA Data Protection Policy.

For more information on how SEPA handles personal information, please refer to our general Privacy Policy at <https://www.sepa.org.uk/help/privacy-policy/>

1. Type of development

1.1 Is the development a new farm or a change to an existing farm? (Please tick box below as applicable)

A new farm

A change to an existing farm

1.1.1 If the development is a change to an existing farm, what is the farm's licence number?

Licence number

1.1.2 If you have also applied for a planning consent relating to the proposed development, what is the planning application reference number issued by the local planning authority?

Planning application reference number, if applicable

Ref. No: 24/216/MAR (proposed/active application)

IF THE DEVELOPMENT IS A CHANGE TO AN EXISTING FARM, PLEASE COMPLETE FORM G AND THE FOLLOWING SECTIONS OF THIS FORM AS INDICATED BELOW:

CHANGE BEING PROPOSED TO EXISTING FARM LICENCE

FOR ALL CHANGES

IF CHANGE TO PEN CONFIGURATION/LOCATION CONDITIONS

IF CHANGE TO MAXIMUM WEIGHT OF FISH CONDITION (INCREASE IN LIMIT OR CHANGE OF SPECIES)

IF CHANGE TO FALLOW PERIOD AND RE-STOCKING CONDITIONS TO HELP MANAGE INTERACTIONS BETWEEN SEA LICE AND WILD SALMONIDS (i.e., NON-STANDARD FALLOW PERIOD PROPOSAL)

IF CHANGE TO ANTI-SEA LICE MEDICINE, OR OTHER PERMITTED SUBSTANCES, CONDITIONS

IF CHANGE TO THE OPERATION OF THE FARM TO HOLD A DIFFERENT MAXIMUM NUMBER OF FISH.

SECTIONS OF THIS FORM TO BE COMPLETED

SECTION 2

SECTION 3

SECTIONS 4 AND 5

SECTION 5

SECTION 6

SECTION 5

2. Location details

2.1 What is the name and location of the proposed farm development?

Farm name	Quanterness	Postal address of the shore base for the farm	Crowness Road, Hatston, Kirkwall, Orkney, KW15 1RG
Name of coastal water (As on Ordnance Survey 1:25,000)	Wide Firth	Farm centre (8-figure National Grid Reference¹)	HY42733 14921

3. Details of the farm layout

3.1 What pen configuration will the farm have?

Group 1	Number of pens in pen group 1	14
	Circumference of pens in pen group 1 (in metres)	120
	Length of pen sides (optional, for square pens, delete if not required)	
	Distance from the upper surface of the pens to the lowest part of the pens in pen group 1 (in metres)	8
	Number of pens in row 1 of pen group 1	7
	Number of pens in row 2 of pen group 1	7
	Number of pens in row 3 of pen group 1	
Group 2 (Please only complete if more than one Group)	Number of pens in pen group 2, if applicable	
	Circumference of pens in pen group 2 (in metres)	
	Length of pen sides (optional, for square pens, delete if not required) (in metres)	
	Distance from the upper surface of the pens to the lowest part of the pens in pen group 2 (in metres)	
	Number of pens in row 1 of pen group 2	
	Number of pens in row 2 of pen group 2	
	Number of pens in row 3 of pen group 2	
Group 3 (Please complete if relevant)	Number of pens in pen group 3, if applicable	
	Circumference of pens in pen group 3 (in metres)	
	Length of pen sides (optional, for square pens, delete if not required) (in metres)	
	Distance from the upper surface of the pens to the lowest part of the pens in pen group 3 (in metres)	
	Number of pens in row 1 of pen group 3	
	Number of pens in row 2 of pen group 3	
	Number of pens in row 3 of pen group 3	

¹ i.e., An 8 figure National Grid reference has two letters followed by a pair of 4-digit number strings identifying a 10 m by 10 m location on an Ordnance Survey map.

PLEASE MARK THE PEN GROUP NUMBER AND PEN ROW NUMBER AS REFERRED TO IN SECTION 3.1 IN THE DRAWING IN SECTION 3.2

3.2 Please insert (or attach) a drawing showing the proposed farm layout

Site layout attached.

3.3 What will be the locations of the pen corner buoys bounding the area or areas within which the pen group(s) will be located?

		8 figure National grid Reference
Pen group 1	Location of corner buoy 1	HY 42663 14676
	Location of corner buoy 2	HY 42663 15166
	Location of corner buoy 3	HY 42803 15166
	Location of corner buoy 4	HY 42803 14676
Pen group 2, if applicable	Location of corner buoy 1	
	Location of corner buoy 2	
	Location of corner buoy 3	
	Location of corner buoy 4	
Pen group 3, if applicable	Location of corner buoy 1	
	Location of corner buoy 2	
	Location of corner buoy 3	
	Location of corner buoy 4	

4. Information for assessing discharges of organic solids and nitrogen compounds

4.1 What species of fish will you be growing? (Please enter common name and scientific name, e.g. Atlantic salmon (*Salmo salar*))

Atlantic salmon (*Salmo salar*)

4.2 What is the planned maximum weight of fish to be held on the farm at any time (in tonnes)?

1925T

4.3 What is the maximum quantity of fish food you plan to use in a year (in tonnes)?

2,795 tonnes/year

4.4 What will be the average nitrogen content of the fish food (% composition by weight)?

Nitrogen = 6.30%

4.5 Will all fish faeces produced be discharged from the pens into the sea? (Please tick box relevant below)

Yes

No

4.5.1 If not all the fish faeces produced will be discharged from the pens, what proportion will be discharged?

Proportion that will be discharged (%)

Document reference for a separate document explaining what will happen to the proportion not discharged

PLEASE NOTE, YOU MAY NEED A PERMIT FROM US FOR THE MANAGEMENT OF THE WASTE

4.6 Please reference supporting information relevant to discharges of organic solids and nitrogen compounds?

Reference to required model calibration & validation data (e.g., current meter data):

5. Quanterness_HGReport
7. Quanterness_DyeandDroqueReport

Reference to information on deposition modelling of organic solids:

6. Quanterness_NDModellingReport
9. Quanterness_FarfieldBenthicModellingReport

Reference to information on nitrogen compound modelling, if required:

10. Quanterness_NutrientAssessmentReport

Reference to baseline information identifying any relevant protected species and habitats within the modelled deposition footprint of the farm:

11. Quanterness Visual Baseline Survey Report

Reference to any other uses of the coastal waters within the modelled deposition footprint of the farm (e.g., shellfish farming or fishing):

5. Information relevant to assessing sea lice interactions with wild salmon

ONLY COMPLETE THIS SECTION IF FARMING ATLANTIC SALMON OR RAINBOW TROUT

PLEASE NOTE, ALL WEEK NUMBERS REFERRED TO IN THE SECTION ARE AS DEFINED IN ISO 8601

5.1 What will be the maximum number of fish held on the farm at any time?

N/A proposed farm located in Orkney

5.2 What upper limit will you keep the rolling average of adult female sea lice per fish below over any period of 4 weeks between week 12 and week 22?

5.3 Will fallow periods be timed to help manage potential interactions between sea lice from the farm and wild Atlantic salmon? (Please tick the relevant box below)

Proposing fallow period timings to help manage interactions between sea lice and wild salmon	<input type="checkbox"/>	Not proposing specific fallow period timings	<input type="checkbox"/>
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5.3.1 If proposing fallow period timings to help manage interactions between sea lice and wild salmon, please describe below.

5.4 Between weeks 12 and 22, will the farm’s pens be wholly or partially enclosed such that sea lice exchanges between the farm and the surrounding coastal waters will be minimal? (Please tick box relevant below)

Wholly or partially enclosed	<input type="checkbox"/>	Not wholly or partially enclosed	<input type="checkbox"/>
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5.4.1 If the farm will be wholly or partially enclosed, please describe how below

5.5 Please reference supporting information relevant to assessing interactions between sea lice and wild salmon

Reference to information on sea lice modelling, if applicable

Reference to information on surveys to collect data for calibrating and validating sea lice dispersion modelling, if applicable

6. Information relevant to assessing discharges of medicines and other chemicals

IN COMPLETING THIS SECTION, YOU MUST INCLUDE INFORMATION ON DISCHARGES FROM THE FISH PENS AND FROM WELLBOATS OPERATING AT THE FARM.

6.1 Which of the following anti-sea lice medicines (active ingredients) will be discharged and what quantities will be used?

	Enter "Yes or "No"		Discharge from pens and/or wellboats
Azamethiphos	Yes	Maximum quantity of azamethiphos that will be used in any 24-hour period, if applicable (in grams)	575g
		Maximum quantity of azamethiphos that will be used in any 3-hour period, if applicable (in grams)	430g
Deltamethrin	Yes	Maximum quantity that will be used in any 3-hour period, if applicable (in grams)	40g
Emamectin benzoate	Yes	Maximum environmental quantity* that will not be exceeded, if applicable (in grams)	46.9g

* The maximum environmental quantity is the maximum residual quantity of emamectin benzoate in the environment at any one time which, if not exceeded, will meet the environmental quantity standard at the edge of the mixing zone. It must be derived using suitable modelling.

6.2 Will all anti-sea lice medicine used be discharged into the sea at the farm? (Please tick relevant box below)

Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
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6.2.1 If not all the anti-sea lice medicine used will be discharged, what proportion will be discharged?

Proportion of azamethiphos used that will be discharged (%)		Document reference for a separate document explaining what will happen to the proportion not discharged	
Proportion of deltamethrin used that will be discharged (%)		Document reference for a separate document explaining what will happen to the proportion not discharged	
Proportion of emamectin benzoate used that will be discharged (%)		Document reference for a separate document explaining what will happen to the proportion not discharged	

6.2.2 If discharging azamethiphos or deltamethrin from fish pens, what is the minimum proportion of the full pen volume to which the treatment enclosure will be reduced? (This should normally be 50% to 70%)

	Minimum proportion of the full pen volume to which the treatment enclosure will be reduced (%)
Azamethiphos	70%
Deltamethrin	70%

6.3 Please reference supporting information relevant to assessing discharges of anti-sea lice medicines

Reference to required model calibration & validation data (e.g., current meter data)	5. Quanterness_HGReport 7. Quanterness_DyeandDrogueReport
Reference to information on azamethiphos discharge modelling, if applicable	8. Quanterness_BathModellingReport
Reference to information on deltamethrin discharge modelling, if applicable	8. Quanterness_BathModellingReport
Reference to information on emamectin benzoate discharge modelling, if applicable	6. Quanterness_NDModellingReport
Reference to baseline information identifying any relevant protected species and habitats (including any priority marine features) within the modelled deposition footprint of the farm	11. Quanterness Visual Baseline Survey Report
Reference to any other uses of the coastal waters around the farm (e.g., shellfish farming or fishing)	

6.4 Will any medicines/chemicals be discharged other than those referred to in section 6.1 and covered by Annex 1? (Please tick relevant box below)

No	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>
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YOU MUST ANSWER "YES" IF YOU INTEND TO DISCHARGE ANY MEDICINE/CHEMICAL REFERRED TO IN ANNEX 1 BUT NOT IN ACCORDANCE WITH THE ASSOCIATED LIMIT FOR THAT MEDICINE/CHEMICAL AS ALSO DESCRIBED IN ANNEX 1.

IF YOUR ANSWER IN SECTION 6.4 WAS "YES", IF YOU HAVE NOT DONE SO ALREADY, YOU ARE STRONGLY ADVISED TO SPEAK TO US AS SOON AS POSSIBLE SO WE CAN ADVISE YOU ON THE DETAIL OF THE SCIENTIFIC INFORMATION YOU WILL NEED TO PROVIDE.

6.5 If other medicines/chemicals will be discharged, please provide details below	
Product trade name	Excis: Novartis Animal Vaccines Ltd
Chemicals in product and their proportions	Active ingredient: 1% cypermethrin (cis 40: trans 60) in an ethanolic base
Quantity of each product that will be discharged per use	0.112g
Number of uses of the product expected per year	0
Purpose for which product will be used	Sea lice control

6.6 Please reference supporting information relevant to assessing discharges of the medicines/chemicals referenced in section 6.5.	
Reference to information on the fate and behaviour in coastal waters of the medicines/chemicals, if applicable (partitioning - water vs sediment; persistence; bioaccumulation risk)	
Reference to ecotoxicity information about the medicines/chemicals including a calculated predicted no effects concentration, if applicable	13. Chemical Data Sheets
Reference to information on dispersion modelling of discharges of the medicines/chemicals, if applicable	8. Quanterness_BathModellingReport
Reference to required model calibration & validation data (e.g., current meter data), if applicable	7. Quanterness_DyeandDrogueReport

Annex 1: Permitted substances list

Category	Limits
Anaesthetics Antifoulants	<p>Prior to discharge, anaesthetics must be diluted to an appropriate working strength.</p> <p>Where the quantity of dilute anaesthetics is greater than 150 litres, it must be discharged over a minimum period of 15 minutes.</p>
Antifoulants	<p>Antifoulants must only be used for the purposes of protecting fish farm infrastructure and equipment from excessive growth of marine flora and fauna.</p> <p>Discharge of antifoulants to the water environment must only be because of leaching or erosion from previously treated surfaces.</p> <p>Removal of antifoulants must not be carried out at the authorised place.</p> <p>Application of antifoulants must not be carried out at the authorised place.</p>
Anti-microbials	<p>Anti-microbials must only be discharged to the water environment following treatment of fish with an in-feed formulation of the medicine.</p>
Anti-parasitics	<p>Must only contain hydrogen peroxide as the active ingredient.</p> <p>Must only be discharged following treatment of fish within an enclosure fully separated from the water environment or following treatment of fish within a vessel.</p> <p>When carrying out treatments in a pen, the enclosure in which fish are treated must be reduced by a minimum of 70 % of the full pen volume.</p>
Detergents	<p>Discharge of detergents to the water environment must only be as a result of wash off from treated surfaces.</p>
Disinfectants	<p>Discharge of disinfectants to the water environment must only be as a result of wash off from treated surfaces.</p>
Lubricants of fish contact surfaces	<p>Must only contain tetrasodium EDTA as the active ingredient.</p> <p>Prior to discharge, products containing tetrasodium EDTA must be diluted to 0.2 mg/l.</p>