



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

Licence Application FORM C

Please fill in this form to discharge effluent from a fish farm

The Data Protection Act 1998

"The Scottish Environment Protection Agency is responsible for maintaining and improving the environment and regulating environmental emissions. It has a duty to discharge its functions to protect and enhance the environment and to promote conservation and recreation.

The information provided will be processed by the Scottish Environment Protection Agency to deal with your application, to monitor compliance with the licence/permit/registration conditions, to process renewals, and for maintaining the relevant public register(s).

We may also process and/or disclose it in connection with the following:

- offering/providing you with our literature/services relating to environmental affairs
- consulting with the public, public bodies and other organisations (e.g. Health and Safety Executive, Local Authorities, Emergency Services, Scottish Executive) on environmental issues
- carrying out statistical analysis, research and development on environmental issues
- providing public register information to enquirers
- investigating possible breaches of environmental law and taking any resulting action
- preventing breaches of environmental law
- assessing customer service satisfaction and improving our service.

We may pass it on to our agents/representatives to do these things on our behalf.

You should ensure that any persons named on this form are informed of the contents of this Data Protection Notice

ADDITIONAL INFORMATION

In addition to the application form some supporting information is required. You can discuss these requirements with the local SEPA office.

For land based fish farm or associated land based facilities:

- A drainage plan showing the drainage layout of the fish farm (e.g. discharge points, treatment facilities, inlets and outlets. Number, size and design of tanks/ponds)
- Design drawings/details of treatment facilities

For cage farms:

- A drawing showing the design, dimensions and layout of the cages
- A plan showing the area licensed by the Crown Estate or planning consent within which the cages will be confined (National Grid References (10 characters e.g. NT 1234 5678) should be identified on the map at four points around the perimeter of the area.
- Documentation on the chemicals to be used on site
- Environmental survey data provided to comply with any required specifications which define the requirements for pre-development hydro graphic, water chemistry and benthic biological surveys. Further details of these requirements are set out in the Marine Cage Fish Farm Procedures Manual available on the SEPA Website.

For marine cage fish farm sites, the outputs from the modelling package AutoDEPOMOD suggesting site biomass limits and limits for sea lice medicines. Further details of these requirements are set out in the Marine Cage Fish Farm Procedures Manual available on the SEPA Website.

SECTION 1: GENERAL INFORMATION**1.1 If not already included on your 'Site Plan' (see Form A), please provide a "Drainage Plan" showing:**

- The site drainage layout (if applicable)
- All discharge point(s) locations
- The layout of the cage fish farm (if applicable)
- Identify pollution risk areas/chemical and oil stores

Reference the Plan "Drainage Plan" and attach it to your application

1.2 About Site Development

Will the effluent come from (tick box)

an existing development or discharge?

a new development or discharge?

an alteration to an existing development or discharge?

Planning Permission ref no. (if applicable)

Building Warrant reference no. (if applicable)

Crown Estate Lease no (if applicable)

1.3 Receiving Environment

Where will the discharge be made to: (please tick)

River?

Freshwater loch?

Land via a soakaway?

Direct to groundwater?

Estuary (i.e. transitional waters) or coastal waters?

Land?

Is the discharge via a partial soakaway? YES NO

What is the name of the receiving water (if known)?

Open water off the east coast of South Uist, between Lochboisdale and Loch Aineort. Rubha Roiseal to Sgeir a Mhill coastal water body (ID: 200432)

1.4 About the outlet(s) (not applicable to discharges from cage sites)

1.4.1 Will the discharge be made through: (please tick)

*a new outlet?

*an alteration to an existing outlet?

an existing outlet?

1.4.2 *If a new outlet or alteration to existing outlet: submit outlet design so that SEPA can agree your engineering proposals, prior to licensing

1.4.3 National Grid Reference for Outlet(s) (at least 10 characters, format xx-xxxx-xxxx)

Outfall Internal diameter
mm
mm
mm

What provision will be made for samples to be taken of the effluent discharged? (e.g. sampling chamber, automatic sampler)

1.5 In the boxes provided please indicate which of the following discharges you will be applying for (give the number of each

discharge, scale of discharge (i.e. complex licence or simple licence) and whether any environmental service claim is being made)

Discharge	Description	Number of discharges applied for	Complex Licence (CL)	Simple Licence (SL)
		State Number	State Number	State Number
Fish Farm Effluent	Cage fish farm	1	1	
	Tank/hatchery Fish Farm			

Note- if you claim Environmental Service then your reasoning must be set out on a separate sheet referenced "Environmental Service Claims". Information on Environmental Service is available in the Charging Scheme guidance, please see the Environmental Regulation (Scotland) Charging Scheme 2016 found on the SEPA website. SEPA Website: <http://www.sepa.org.uk/regulations/authorisations-and-permits/charging-schemes/charging-schemes-and-summary-charging-booklets/>

SECTION 2: FARM DETAILS

2.1 The fish farm is, or shall be (please tick)

in the sea	<input checked="" type="checkbox"/>	in a sea loch or voe	<input type="checkbox"/>
on land with a marine intake	<input type="checkbox"/>	on land with a freshwater intake	<input type="checkbox"/>
in a freshwater loch	<input type="checkbox"/>	on land with a groundwater intake	<input type="checkbox"/>
Other (please specify)			

2.2 What species of fish do you rear or plan to rear?

Farmed - Atlantic salmon (*Salmo salar*)
Cleanerfish will be stocked at the site as a non-medicinal lice treatment tool (Wrasse & Lumpfish)

PRODUCTION

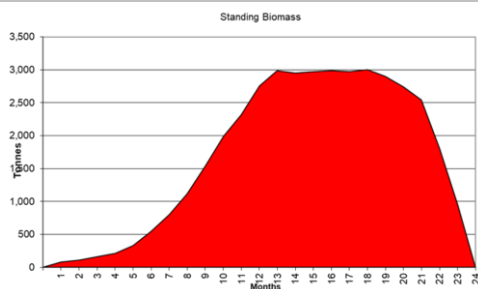
2.3 What is the planned maximum production? (in tonnes per year)

4,377 tonnes/year

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

3,000 tonnes/year

2.5 Please supply a stocking plan for the on-growing cycle based upon monthly projections. (Use a separate, referenced sheet if required.)



Full scale version provided in Fish Production Plan attached with the application

2.6 What is the planned maximum stocking density? (in kilograms per cubic metre)

9.8kg/m³ based on 16m side nets

FISH FOOD

2.7 What quantity of fish food do you plan to use? (in tonnes per year)

4,684 tonnes/year

2.8 What method is proposed to be used to feed the fish?	See Fish Production Plan attached with application - Automated feed barge
2.9 What food conversion ratio do you expect to achieve? (Kilograms of fish production (wet weight) against kilograms of food (wet weight))	1.07
Note: please provide supporting documentation.	
2.10 What will the phosphorus and nitrogen content of the food be? (% composition by weight)	Phosphorus 1.5-2% Nitrogen 6-7%

USE OF CHEMICALS

2.11 Please list all chemicals/medicines that you intend to use on the farm, which may end up entering the receiving waters (e.g. therapeutants, whether in-feed or bath treatments, anaesthetics, disinfectants, anti-fouling net coatings)	
<p><i>The following details should be provided.</i></p> <ul style="list-style-type: none"> the trade name of chemical and the manufacturer; the active ingredient a copy of the manufacturers data sheet for each chemical; a method statement, which explains in detail the procedure used to carry out the treatment including measures to minimise the release of chemicals to the environment. maximum treatment concentration (active ingredient) for each chemical (where applicable); the number of applications typically needed for each complete treatment; total quantity of neat chemical used for each application or the amount of active ingredient; an indication of the number of treatments which could be required over a year assuming (a) optimistic and (b) pessimistic conditions; details of storage arrangements for chemicals; For net anti-fouling coatings, information should be provided on the sites where coatings will be applied and nets washed <p>You should check product documentation (or if necessary, with the manufacturers) to establish if any of the chemicals listed in the annex to this form are present. If any of these chemicals are present, you must list them and estimate the quantities which will be used.</p>	<p>Please refer to the Medicine Use document attached as supporting information</p>

Note: You should be aware that the chemicals listed will be considered for inclusion within the licence which will authorise their subsequent use. The use of any other chemicals would be illegal and may make you liable to prosecution under the Water Environment (Controlled Activities) (Scotland) Regulations 2011.

SECTION 3: CAGE FISH FARMS

3.1 Please state the planned maximum number of cages on site and the proposed layout. (include a plan of the cage grid and moorings)	6
3.2 What are the proposed measurements of each cage? (including length, breadth and depth in metres or circumference, diameter and depth for circular cages)	200m circumference
3.3 What is the average water depth below the cages? (from bottom of the nets to loch bed in metres)	40-43m CD i.e. 9m from cone to seabed

<p>3.4 SEPA will normally expect sites to be left fallow following each production cycle. Please explain how this will be achieved. If the cages are to be moved on a rotational basis, you should provide a map showing the location of sites which will be used as part of the rotation.</p>	<p>The length of time the site will remain fallow will be 28 consecutive days at the end of the production cycle. Each cycle is typically 22.5 months long.</p>
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<p>3.5 Please state the type of mooring, e.g. single point or corner anchors. If single point mooring, what will be the radius of swing? (in metres)</p>	<p>Fixed side and corner anchors, see charts attached with the application</p>
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MINIMISING THE RELEASE OF POLLUTING MATTER

<p>3.6 How do you intend to minimise the deposition of food/fish faeces underneath the cages.</p>	<p>See Fish Production Plan attached with application - Fish will be fed according to feeding guides which are intended to optimise the use of feed and thereby minimise waste. Feed uptake is subject to continuous surveillance which in combination with an automated feeding system will further minimise waste feed.</p>
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<p>3.7 SEPA will require you to provide <u>full</u> containment during the bath treatment of fish with therapeutants. Please explain how this will be achieved. (e.g. <u>full</u> tarpaulins, well boats)</p>	<p>Full tarpaulins or well boats – well boats likely due to pen design and site conditions</p>
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<p>3.8 SEPA will expect you to minimise the treatment volume within each cage during bath treatments. What will be the treatment volume relative to the normal working cage volume? (either in cubic metres or % reduction)</p>	<p>Over 70% reduction</p>
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<p>3.9 Associated land based facilities: please describe any land based facilities which will be associated with the cages. This could include a shore base, staff facilities, net washing facilities or processing plants.</p>	<p>Existing shorebase - Mowi Scotland Limited, Stulaigh South Fish Farm, Gasaigh Island, Lochboisdale, Isle of South Uist HS8 5TH</p>
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SECTION 4: LAND BASED FISH FARMS (INCLUDING HATCHERIES)

<p>4.1 What is the planned average and maximum volume discharged in cubic metres per day?</p>	<p>Average Vol.</p>	<p>m³/day</p>
	<p>Maximum Vol.</p>	<p>m³/day</p>

<p>4.2 What is the planned maximum rate of flow of effluent in litres per second?</p>	<p>Maximum flow.</p>	<p>l/s</p>
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<p>4.3 How is the effluent to be treated before it is discharged? This should describe facilities such as settlement ponds or filters. (Should include dimensions of the pond or aperture size of the filter mesh).</p> <p>Provide expected quality of the discharge.</p> <p>Note: please submit design details of filter if available</p>	
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4.4 How will the solid waste arising from the treatment facilities be handled? *(This should cover aspects such as the frequency of settlement pond desludging, the treatment of backwash from filters and the disposal of the waste.)*

X ADDITIONAL INFORMATION SUBMITTED

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Please reference additional supporting documents submitted as part of this application

- CAR Licence Application Forms A, C, and C2
- Pre-Application Checks, Consultation Summary, and relevant EIA results
- Site Charts and Coordinates
- Fish Production Plan
- Medicine Use Statement
- Medicine Minimisation Statement
- 2019 Baseline Report and 2021 Baseline Report
- SEPA Baseline Survey Results Template
- Hydrographic Data Report ID208 & ID224 (and accompanying HG Sheets)
- Modelling Method Statement
- Waste Solids & In-feed Medicine Deposition Modelling Report
- Hydrodynamic Model Description Report
- BathAuto Report (and accompanying BathAuto file)
- Azamethiphos Bath Modelling Report
- Seabed Monitoring Plan

ANNEX: Substances

Table 1 below details substances which must be highlighted within your application if they are contained within your discharge.

Table 1 - Substances

Substance		Substance	
Alachlor	PS	Fluoranthene	PS
Aldrin	LIST I	Hexachlorobenzene	PHS, LIST I
Aluminium	SP	Hexachlorobutadiene	PHS, LIST I
Anthracene	PSR	Hexachlorocyclohexane (Lindane)	PHS, LIST I
Arsenic	SP, LIST II	Iron	SP, LIST II
Atrazine	PSR, LIST II	Isodrin	LIST I
Azinphos-methyl	LIST II	Isoproturon	PSR
Bentazone	LIST II	Lead and its compounds	PSR, LIST II
Benzene	PS, LIST II	Linuron	LIST II
Biphenyl	LIST II	Malathion	LIST II
Boron	LIST II	Manganese	SP
Brominated diphenylether (only)	PHS	Mecoprop	LIST II
Cadmium	PHS, LIST I	Mercury and its compounds	PHS, LIST I
Carbon tetrachloride	LIST I	Mevinphos	LIST II
Chlorfenvinphos	PS	Naphthalene	PSR, LIST II
Chlorine	SP	Nickel and its compounds	PS, LIST II
Chloroalkanes, (C10-13)	PHS	Nonylphenols	PHS
Chloroform	LIST I	Octylphenols	PSR
Chloronitrotoluenes	LIST II	Omethoate	LIST II
2-Chlorophenol	LIST II	PCSDS	LIST II
4-Chloro-3-methylphenol	LIST II	pentabromodiphenylether (PBDE))	PHS
Chlorpyrifos	PSR	Pentachlorobenzene	PHS
Chromium	SP, LIST II	Pentachlorophenol	PSR, LIST I
Copper	SP, LIST II	Perchloroethylene	LIST I
Cyanide	SP	Permethrin	SP, LIST II
Cyfluthrin	LIST II	Phenol	SP
2,4 -D (ester)	LIST II	Poly Aromatic Hydrocarbons	PHS
2,4-D (non-ester)	LIST II	pp-DDT	LIST I
DDT	LIST I	Simazine	PSR, LIST II
Demeton	LIST II	Sulcofuron	LIST II
Di(2-ethylhexyl)phthalate (DEHP)	PSR	Tetrachloroethane	SP
Diazinon	SP	Toluene	SP, LIST II
1, 2 Dichloroethane	PS, LIST I	Triazophos	LIST II
Dichloromethane	PS	Tributyltin compounds	PHS, LIST II
2,4-Dichlorophenol	LIST II	Trichlorobenzene	PSR, LIST I
Dichlorvos	LIST II	1,1,1-Trichloroethane	LIST II
Dieldrin	LIST I	1,1,2-Trichloroethane	LIST II
Dimethoate	LIST II	Trichloroethylene	LIST I
Diuron	PSR	Trichloromethane	PS
Endosulphan	PSR, LIST II	Trifluralin	PSR, LIST II
Endrin	LIST I	Triphenyltins	LIST II
Fenitrothion	LIST II	Vanadium	LIST II
Flucofuron	LIST II	Xylene	LIST II

KEY: PHS – Annex X priority hazardous substance
 PS – Annex X priority substance
 PSR – Priority Substance Review
 SP - Annex VIII substance covered by points 1 to 9 - termed as Specific Pollutant
 List I - Dangerous Substances Directive List I substance, also listed in annex IX of WFD
 List II - Dangerous Substances Directive List II substance (as agreed by UK, statutory EQS applies)