

# Environmental Monitoring Plan

Permit Number: CAR/L/

Marine Pen Fish Farm: Billy Baa

Responsible company: Scottish Sea Farms

Version: 1

Date: 25/10/2023

The purpose of this EMP is to monitor seabed impacts from the marine fish farm in order to assess compliance with the seabed standards specified in schedule 4 of the permit.

This plan has been developed in accordance with SEPA guidance: "Version 1 May 2022 Seabed Environmental Standards - Demonstrating Compliance".

Two environmental monitoring survey designs are required:

1. Biological Sampling
2. Chemical Residues Sampling

## 1. Biological sampling

This sampling is designed to collect the required seabed data that will allow an assessment of compliance against schedule 4.1 of the permit.

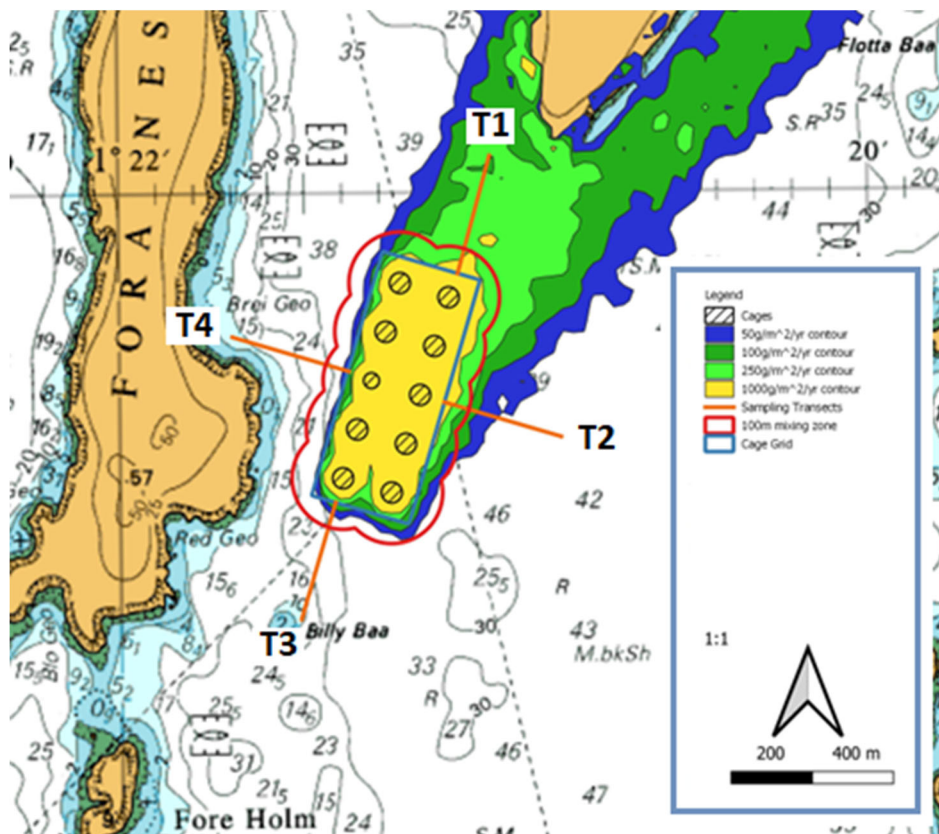
The default monitoring layout will be followed, with the direction of each transect as follows:

- Transect 1 - bearing 015 degrees (near-bed major axis).
- Transect 2 – bearing 105 degrees.
- Transect 3 - bearing 195 degrees.
- Transect 4 - bearing 285 degrees.

At each sample station samples of sediment will be collected and analysed for:

- benthic infauna
- particle size analysis (PSA).

**Figure 1 – Site map of Billy Baa with survey transects indicated**



Origins and directions for survey transects for Billy Baa (indicative).

If a suitable seabed sample cannot be collected at one or more monitoring stations on a transect:

- a) the collection of a suitable sample (or samples) will be attempted at different locations on the transect concerned.
- b) if sufficient suitable samples cannot be collected on the transect after trying to sample at different locations, the collection of samples along a replacement transect will be attempted.

If it is necessary to attempt collection of samples on a replacement transect, the identification of that transect will consider:

- (i) Any relevant information about the seabed to help choose a replacement that maximises the likelihood of being able to collect sufficient samples.
- (ii) In the light of (i) above, moving the origin for the transect on the pen group.
- (iii) In the light of (i) above, orienting the transect on a different bearing within  $\pm 5^\circ$  of the predominant direction of the bed current in the case of a replacement primary transect or, in the case of a replacement minor transect, within  $\pm 20^\circ$  of orthogonal to the direction of the predominant bed current.
- (iv) A combination of (ii) and (iii) above.

## **2. Chemical Residues Sampling**

At each sample station specified in the CAR licence, samples of sediment will be collected and analysed for:

- Enamectin benzoate
- Particle size
- Total organic carbon

Sampling and analyses, will be carried out in accordance with the following MACS documents:

- Performance Standard MACS-FFA-PSO1 - Version 2 July 2023
- Performance Standard MACS-FFA-PSO2 - Version 1 March 2022
- Performance Standard MACS-FFA-PSO3 - Version 1 March 2022