

# MOWI<sup>®</sup>



**Marine Pen Fish Farm: Scalpay, Isle of Skye.**

**Licence Reference: CAR/L/1156482**

**Environmental Monitoring Plan**

**Mowi Scotland Limited**

**March 2024**

## Environmental Monitoring Plan

EMP/CAR/L/1156482

FOR

LICENCE REFERENCE NUMBER: CAR/L/1156482

ADDRESS OF PREMISES: Scalpay Fish Farm, Isle of Skye

Version: 4

Dated: 26/03/2024

### Aim

The aim of this Environmental Monitoring Plan (EMP) is to monitor seabed environmental impacts from the marine fish farm in order to assess compliance with the environmental quality standards that are specified in the licence.

### Scope of the Monitoring Plan

This plan outlines the environmental monitoring design, sampling methods, frequency, and requirements for reporting of data. The plan has been developed in accordance with the following guidance:

- Performance Standard MACS-FFA-PS-01: Sampling of Soft Sediment, SEPA 2022
- Performance Standard MACS-FFA-PS-02: Physical and chemical testing, SEPA 2022
- Performance Standard MACS-FFA-PS-03: Biological testing, SEPA 2022
- Seabed Environmental Standards - Demonstrating Compliance, SEPA 2022

### Monitoring Survey Design

Two monitoring survey designs are presented as part of this Plan:

- 1 Biological Sampling**
- 2 Medicinal Residues Sampling**

Any changes to these monitoring surveys will be agreed with SEPA prior to fieldwork commencing.

#### 1. Biological sampling

This survey is designed to collect the required environmental data that will allow an assessment of compliance against the two environmental standards for the biological condition of the seabed. The standard that must be met at the boundary of the permitted mixing zone, the maximum area of which is specified in the permit and the other standard which must be met within the mixing zone at the outer edges of the pens.

Monitoring will be undertaken along four directions (transects) on bearings running seaward from each side of the pen group. The direction of the primary transects and the sides of the pen group where they will originate are highlighted in Figure 1 below. Samples will be taken along each transect, with directions reflecting historical hydrographic data, and depth contours.

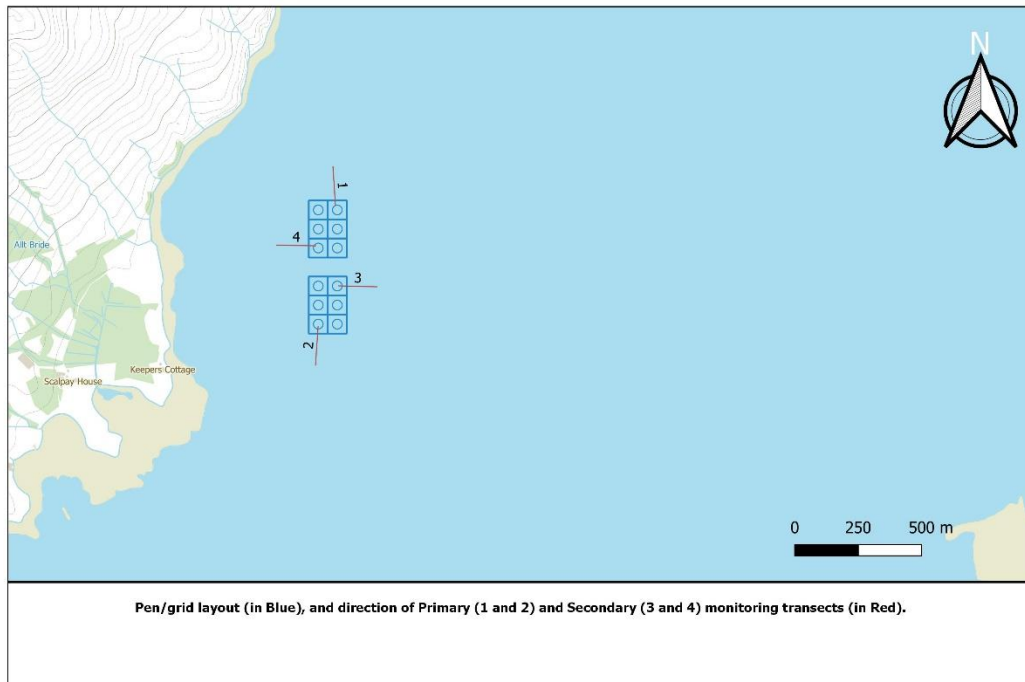


Figure 1: Biological Monitoring - Direction of Primary (T1, T2) and Secondary Transects (T3, T4)

The bearings for each of the primary transects are as follows:

- Transect 1 - bearing 198 degrees.
- Transect 4 - bearing 8 degrees.

As a caveat here, if difficulty is had gathering material along the transects detailed above, then the closed appropriate point where material can be gathered will be used instead.

To assess compliance with the environmental standard for the boundary of the mixing zone samples of sediment will be collected at each sample station across the four transects and analysed for the following parameters:

- Particle size analysis (PSA)
- Benthic infauna

## 2. Medicinal Residues Sampling

This survey is designed to collect the required environmental data that will allow an assessment of compliance against the environmental standards for Emamectin Benzoate concentrations in the seabed sediment.

Samples will be collected at the locations specified in the licence.

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

- Total Organic Carbon (TOC)
- Particle size analysis (PSA).
- Emamectin Benzoate.

### **Survey Timing**

During each production cycle seabed sampling will be undertaken in accordance with the periods specified in the licence. In the event of unforeseen circumstances impacting on survey timing notification will be provided to SEPA.

### **Data Reporting**

Results from the analysis of all samples collected in accordance with this plan will be submitted to SEPA using the required reporting template in accordance with licence requirements. In the event of unseen circumstances impacting on data reporting timelines notification will be provided to SEPA.

### **Quality Assurance**

Sample collection and laboratory analyses will be conducted in accordance with the relevant SEPA MACS Performance Standards by competent and authorised persons (with the necessary knowledge, training, and certifications) on behalf of the Responsible Person (Mowi Scotland Limited).