

Case No:	<input type="text" value="2022-0096"/>	Date of visit:	<input type="text" value="26/04/2022"/>			
Time spent on site:	<input type="text" value="5 hours"/>	Main Inspector:	<input type="text" value=""/>			
Site No:	<input type="text" value="FS1286"/>	Site Name:	<input type="text" value="Muck"/>			
Business No:	<input type="text" value="FB0119"/>	Business Name:	<input type="text" value="Mowi Scotland Ltd"/>			
Case Types:	1 <input type="text" value="ECI"/>	2 <input type="text" value="CNI"/>	3 <input type="text" value="SLI"/>	4 <input type="text" value="VMD"/>	5 <input type="text" value=""/>	6 <input type="text" value=""/>
Water Temp (°C):	<input type="text" value="9.25"/>	Thermometer No:	<input type="text" value="T310"/>	FHI 045 completed	<input type="text" value=""/>	
Observations:	Region:	HI	Water type:	S	CoGP MA	None
Dead/weak/abnormally behaving fish present?	<input type="text" value="N"/>	If yes, see additional information/clinical score sheet.				
Clinical signs of disease observed?	<input type="text" value="N"/>	If yes, see additional information/clinical score sheet.				
Gross pathology observed?	<input type="text" value="N"/>	If yes, see additional information/clinical score sheet.				
Diagnostic samples taken?	<input type="text" value="N"/>					

UNI/REG only - if unable to carry out intended visit detail reason below:

**Additional Case Information:**

Remote inspection carried out on 19/04/2022 by [REDACTED] supervised by [REDACTED]. Site inspection carried out on 26/04/2022 by [REDACTED] and [REDACTED]. VMD samples taken by [REDACTED].

Site has its own ROV for net inspections. There are regular dive checks. Seal PRO nets are to be installed for next cycle.

Fish observed all shoaling as in normal behaviour and fish sampled for VMD appeared in healthy upon closer examination both externally and internally with no signs of disease.

Site currently passive grading and harvesting almost every second day.

During inspection, 2 fish in pen 7 were seen to have possible seal damage and were caught and humanely killed.

Site currently stocked with fish moved from Cheesebay (moved onto site between 02/02/2022 - 19/03/22) due to fish welfare considerations and risk of biomass exceedance at their host site (Grey Horse Channel and Groatay). Muck was fallow for 17 days before Cheesebay fish arrived and will be fallow after Cheesebay stock are harvested in June until restocking at the end of August.

A seal was discovered in one pen on 22/10/2021, divers were called out same day and found a hole (122mm x 36mm) at a depth of 19m and repaired it. It was judged at the time that no escape or circumstances which gave rise to a significant risk of escape had occurred, therefore it was considered that the FHI was not required to be informed. Recommendations were made to review escapes reporting procedure including staff training, and a retrospective escapes notification has been submitted to the FHI.

Closing counts indicated that no escapes occurred as a result of this incident and the site now has double mesh nets on all pens along with seal blinds to aid containment.

Case No: **2022-0096** Site No: **FS1286**  
 Date of Visit: **26/04/2022** Inspector(s): **[REDACTED]**

**Registration/Authorisation Details**

- 1. Business/site details summary checked by site representative?  Y
- 2. Changes made to details?  Y

**Site Details (include cleaner fish for all sections)**

Total No facilities	12	Facilities stocked	8	No facilities inspected	12
Species	SAL				
Age group	Q2 2021				
No Fish	469,360				
Mean Fish Wt	3.9kg				
Next Fallow Date (Site)	June 2022	Next Input Date (Site)	End August 2022		
Recent (last 4 wks) disease problems?		Y	Any escapes (since last visit)?		N
If yes, detail:	Pen 4 Yersinia. No increase in mortalities and feeding well				

**Movement Records**

- 1. Movement records available for inspection?  Y
- 2. Date of last inspection: **19/10/2021**
- 3. Are records complete and correctly entered?  Y
- 4. Are movement records available for dead fish and waste?  Y
- 5. Are records complete and correctly entered?  Y
- 6. Are health certificates for introductions (outwith GB) available?  N/A

**Transport Records**

- 1. Are any movements carried out by (or on behalf) of the business (not using a STB)?  N
- If yes, is there a system in place for maintenance of transportation records?

**Mortality Records**

- 1. Mortality records available for inspection?  Y
- 2. How are mortalities disposed of? **Incinerated - on site**
- If other detail: **[REDACTED]**
- 3. Mortality records complete and correctly entered?  Y
- 4. Recent mortality (last 4 wks): **Wk 12 - 880 (0.17%), Wk 13 - 897 (0.17%), Wk 14 - 367 (0.07%), Wk 15 - 529 (0.1%)**
- 5. Evidence of recent increased/atypical mortalities?  N
- If yes, facility nos/no mortality per facility/no stock per facility/reason: **[REDACTED]**
- 6. Any other peaks in mortality during period checked?  N
- If yes, detail: **[REDACTED]**
- 7. Have increased (unexplained) mortalities been reported to vet or FHI?  N/A
- If yes, detail action: **[REDACTED]**
- 8. Have 'mortality events' been reported to FHI? If no, enter details on mortality events sheet.  Y

**Treatments and Medicines Records**

1. Recent treatments (see comment)?  Y  
 If yes, detail: T.M.S.  
 If other, detail:   
 2. Medicines records available for inspection?  Y  
 3. Are records complete and correctly entered?  Y  
 4. Are fish in a withdrawal period?  Y  
 5. If yes, what treatment(s)? T.M.S.  
 If other, detail:   
 6. Are medicines stored appropriately?  Y

**Biosecurity Records**

1. Biosecurity records available for inspection?  Y  
 2. Has the manner and frequency of mortality removal, recording and safe disposal been considered?  Y  
 3. Has the manner and period in which the APB will notify Scottish Ministers or veterinary professional of any *increased (unexplained)* mortality at the site been included?  Y  
 4. Has the action that will be taken in the event that the presence or suspicion of the presence of a listed disease is detected been included and *how* and *when* that will be notified to Scottish Ministers?  Y  
 5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or higher health status, certification if required)?  Y  
 6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minimise transmission of disease been covered (movement of staff, visitors, equipment, live or dead fish etc.)?  Y  
 7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals held on site?  Y  
 8. Have the biosecurity procedures been adequately implemented on site?  Y  
 If no, detail:

**Results of Surveillance**

1. Has any animal health surveillance been carried out by, or on behalf of, the business?  Y  
 2. If yes, are results available for inspection?  Y  
 3. Any significant results?  Y  
 If yes, detail (if not detailed under recent disease problems). See recent disease problems

Records checked between: 19/10/2021 - 19/04/2022

Case no:  Site No:  Date of visit/  
Sampling:

Priority samples: VI  BA  PA  MG  HI

Time sampling starts/ends:   Inspector:  VMD No.

Environmental conditions: 1  2  3  4  5

Summary samples HIST  BA  MG  VI  PA  Total Samples

**Add Fish/Pools - click**

Pool/Fish No	1	2	3	4								
Fish nos	1	2	3	4								
Pool Group												
Species	SAL	SAL	SAL	SAL								
Average weight	3.9kg	3.9kg	3.9kg	3.9kg								
Sex	N/A	N/A	N/A	N/A								
Water Type	SW	SW	SW	SW								
Stock Details		Grey Horse Channel	Grey Horse Channel	Groatay	Grey Horse Channel							
	Stock Origin											
Facility No	6	7	8	10								



Case Number:	2022-0096	Site No:	FS1286	Insp:		
Date of Visit	26/04/2022	No of movements/supp./dest.			Score	
Live fish movements		0	1-5	6-10	>10	
Movements on (from out with GB) of susceptible species	Frequency of movements on from equivalent MS	0	5	10	14	0
	Frequency of movements on from equivalent zone or compartment including third country	0	9	18	26	0
	Number of suppliers	0	5	10	14	0
Movements off	Frequency of movements off	0	3	6	10	10
	Number of destinations	0	3	6	10	3
Exposure via water	Site contacts	0	1-5	6-10		
Water contacts with other farms (holding species susceptible to same diseases)	Farm is protected (secure water supply through disinfection or borehole)	0				
	Farm is on-line or in a coastal zone with category I farms upstream or within 1 tidal excursion	1	2	4		1
	Farm is on-line or in a coastal zone with category III farms upstream or within 1 tidal excursion	1	3	6		
	Farm is on-line or in a coastal zone with category V farms upstream or within 1 tidal excursion	1	4	8		
Management practices		None	Secure	Unsecure		
Water contacts with processors	Any processing plant discharging into adjacent waters	0	1	2	0	
On farm processing within the rules of the directive	No on farm processing	0				0
	Processing own fish (re-cycling risk)	1				
	Processing fish from MS of equivalent status	2				
	Processing fish from zone or compartment of equivalent status	4				
	Processing fish from Category III farm	8				
	Processing fish from Category V farm	10				
Disposal of fish and fish by-products	Site's own waste only processed.	0				0
	Common processes with other farms	3				
	Collection point for waste from other farms	5				
Use of unpasteurised feeds	No feeding of unpasteurised feed	0				0
	Feeding unpasteurised feed	5				
Biosecurity	Number of sites	1	2 or 3	≥ 4		
Contacts with other sites	Sites operating from single shorebase	0	1	2	0	
	Sites sharing staff and equipment	0	1	2	0	
Disinfection of equipment between sites, use of footbaths etc	Yes	0				0
	No	1				
CoGP/Regulator						
Practices in accordance with regulator or industry code of practice	Yes	0				0
	No	3				
Platform access to cages	Yes	0				0
	No	2				
<b>Total Rank</b>					<b>14</b>	
<b>Rank</b>					<b>LOW</b>	



Case No: 2022-0096

Site No: FS1286

**Sea Lice Inspection (Seawater Sites Only)**

- |  |     |
|--|-----|
| 1. Has the site experienced sea lice problems in the previous 4 years?   | Y   |
| 2. Is the CoGP Farm Management Area (or equivalent) fallowed synchronously on a single year class basis?   | Y   |
| 3. Does the site have access to a range of licenced in-feed and bath sea lice medications (including deltamethrin, azamethiphos and emamectin benzoate) as well as access to suitable biological and/or mechanical control measures, and can these be deployed in a reasonable period of time? | Y   |
| 4. Is there a signed documented farm management agreement or statement relevant to the site and CoGP Farm Management Area (or equivalent)?   | N/A |
| 5. Are sea lice count records available for inspection? (Legal SSI, CoGP Annex 6)  | Y   |
| 6. Do records adequately reflect the required standard specified in the SSI and the CoGP? (Legal SSI, CoGP Annex 6)  | Y   |
| 7. Are sea lice ( <i>L. salmonis</i> ) record levels below the suggested criteria for treatment in the CoGP during the period that records are inspected? (CoGP Annex 6)   | N   |
| 8. Have average adult female sea lice ( <i>L. salmonis</i> ) numbers per fish been at a level of 3 or above (prior to w/b 10/6/19) or 2 or above (from w/b 10/6/19) during the period that records are inspected?  | Y   |
| If yes, have these been reported to the Fish Health Inspectorate? If no, FHI see comment.  | Y   |
| 9. Is <i>C. elongatus</i> infestation at a level which is considered to cause significant welfare problems? (CoGP 4.3.81, 5.3.50)  | N   |
| 10. Have therapeutic treatments been administered or other actions taken when <i>L. salmonis</i> levels have exceeded the suggested criteria for treatment or where <i>C. elongatus</i> is considered to have welfare implications? (CoGP 4.3.82, 5.3.51)                                      | Y   |
| 11. Has any other action been taken (where applicable)?  | N/A |
| 12. Have therapeutic treatments or the actions taken had a significant impact upon the lice levels recorded?   | Y   |
| 13. Are treatments, where conducted, carried out in cooperation between participating farms?   | N/A |
| 14. Is there a harvesting strategy for the site, where fewer populations or part populations are held without treatment for sea lice?  | Y   |
| 15. Is there a site specific written lice management procedure with waypoints describing set actions to deal with recognised scenarios during the escalation of a sea lice infestation?  | Y   |
| 16. Do the sea lice levels observed on stocks reflect sea lice count data? If no please detail reasons.  | Y   |

**Containment Inspection**

- |   |   |
|---|---|
| 1. Has the site experienced equipment damage due to predators in the current or previous production cycles? | Y |
| 2. Are measures in place to mitigate against the predation experienced on site? (Detail below)              | Y |

Double mesh,

If other, detail below:

- |  |   |
|--|---|
| 3. Have escape incidents or events been experienced on or in the vicinity of the site since the last FHI inspection?   | Y   |
| If Yes proceed with questions 4 – 9. If No skip to question 10   |   |
| 4. Have these been reported to Scottish Ministers?   | N   |
| 5. Have these been reported to local DSFB forthwith (where they exist)? (CoGP – 4.4.37, 5.4.17)  | N   |
| 6. Have these been reported to the SSPO and local fisheries trusts forthwith (where they exist)? (CoGP – 4.4.37, 5.4.17)   | N   |
| 7. Were methods (if any) used to recover escapees? If yes give detail  | N   |
| 8. If gill nets were deployed was this action agreed with local wild fish interests and was permission given by Scottish Ministers? (Legal, CoGP – 4.4.38, 5.4.18) | N/A                                       |
| 9. What action was taken to prevent and minimise the risk of further escapes? (Not covered in code but could be considered under satisfactory measures of the Act) | Double mesh nets installed for new cycle. |
| 10. Is the site inspected as satisfactory with regards to containment? If no, please detail reason(s)  | Y   |



Case No: 2022-0096

Site No: FS1286

Date of Visit: 26/04/2022

Inspector: [REDACTED]

**Point of Compliance**

1. Is the farm under inspection located within a farm management area?

N

If N, no further questions require completion.

**Points of Compliance for Both Farm Management Agreements and Statements**

2. Has a current farm management agreement or statement (FMAg/S) been prepared?

[REDACTED]

3. Is the current FMAg/S available for inspection?

[REDACTED]

4. Does the FMAg/S identify the relevant farm management area?

[REDACTED]

5. Does the FMAg/S identify the fish farm site(s) to which it applies?

[REDACTED]

6. Does the FMAg/S identify the date of commencement of the agreement or statement?

[REDACTED]

7. Does the FMAg/S identify the date of review?

[REDACTED]

**Arrangements for Fish Health Management**

8. Does the FMAg/S identify the minimum health standards for the stocks to be introduced to the area or farm?

[REDACTED]

9. Does the FMAg/S identify the vaccination requirements for stocks held in the area or farm?

[REDACTED]

10. Does the FMAg/S identify the species of fish which may be stocked into the area or farm?

[REDACTED]

11. Does the FMAg/S identify the maximum stocking density of any pen on any farm in the area or the individual farm?

[REDACTED]

12. Does the FMAg/S identify the arrangements for the storage and disposal of any dead fish from any fish farm in the area or the individual farm?

[REDACTED]

**Arrangements for The Management of Sea Lice**

13. Does the FMAg/S identify arrangements for the sharing of data on sea lice numbers and treatments?

[REDACTED]

14. Does the FMAg/S identify the availability and the use of medicines on farms covered by the agreement of statement?

[REDACTED]

15. Does the FMAg/S identify any requirements for the sensitivity testing of available treatments for sea lice on farms in the area or individual farms?

[REDACTED]

16. Does the FMAg/S identify the circumstances under which biological controls and cleaner fish are to be used on farms in the area or individual farms?

[REDACTED]

17. Does the FMAg/S identify the arrangements for synchronous treatments on farms within the area?

[REDACTED]

**Live Fish Movements**

18. Does the FMAg/S identify the circumstances when live fish may be introduced or removed from the area or farm?

[REDACTED]

19. Does the FMAg/S identify the arrangements for the movement of live fish on and off sites in the area or individual farms?

[REDACTED]

**Harvesting**

20. Does the FMAg/S identify acceptable harvest practices on farms in the area or individual farms?

**Fallowing**

21. Does the FMAg/S identify the dates by which the area or individual farm will be fallow and the earliest date when a farm or area may be restocked?

22. Does the FMAg/S identify whether one or more year classes may be stocked onto sites covered by the agreement or statement?

23. Does the FMAg/S identify whether broodstock or potential broodstock are to be kept on any site covered by the agreement or statement?

**Point of Compliance for Farm Management Agreements Only**

24. Does the farm management agreement include arrangements for persons to become, or cease to be, parties to the agreement?

**Management and operation**

25. Is the fish farm being managed and operated in accordance with the agreement or statement?

26. What is the version no/date of issue of the FMAg/S?

Site No: FS1286
Case No: 2022-0096
Nature of non-compliance:
Action taken (FHI):
Non-compliance relevant to (delete): VirologyMolGen/Bacteriology/Histology/Parasitology





# FISH HEALTH INSPECTORATE VISIT REPORT

## SUMMARY FOR INFORMATION OF SITE OPERATOR

<b>BUSINESS No</b>	FB0119	<b>DATE OF VISIT</b>	26/04/2022
<b>SITE No</b>	FS1286	<b>SITE NAME</b>	Muck
<b>CASE No</b>	20220096	<b>INSPECTOR</b>	[REDACTED]

### Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

The above site was inspected, in accordance with the Aquatic Animal Health (Scotland) Regulations 2009.

All epidemiological units were inspected. On this occasion no samples were taken for disease analysis. The Inspector did not observe any clinical signs associated with the listed diseases as described in the Aquatic Animal Health (Scotland) Regulations 2009.

#### Records

The surveillance frequency category of the site was assessed as low. An inspection under the Aquatic Animal Health (Scotland) Regulations 2009 will be conducted every third year. The category of the site will be reassessed on a routine basis and updated as required.

The information required for the public record of aquaculture production businesses regarding this site was verified and where necessary updated. The following records were also inspected to ensure that the conditions of authorisation for your Aquaculture Production Business (APB) are being met:

Aquaculture animal and aquaculture animal product movement records were inspected and appeared to be adequately maintained.

Mortality records were inspected and found to be adequately maintained.

No mortality levels exceeding the reporting criteria have been recorded since the last inspection.

Reports detailing the results of animal health surveillance carried out by or on behalf of the business and/or Marine Scotland were available for inspection.

The biosecurity measures plan for the site was inspected and found to be adequately maintained and implemented.

The following points were raised with the site representative during the inspection:

- It was noted during the inspection that on the morning of 22<sup>nd</sup> October 2021 that a hole had been repaired on one of the nets following observations of a seal being in the pen. This

R25

incident was not reported to the Fish Health Inspectorate. This matter was discussed with the site manager and business correspondent and an initial and final escapes notification was subsequently submitted prior to the issuing of this report.

### **Inspection under the Animals and Animal Products (Examination for Residues and Maximum Residue Limits) (England and Scotland) Regulations 2015**

Medicine records were inspected and found to be adequately maintained.

Samples were taken to be analysed for veterinary residues.

### **Inspection under the Aquaculture and Fisheries (Scotland) Act 2007**

The site was also inspected in accordance with the Aquaculture and Fisheries (Scotland) Act 2007, as amended, with respect to section 3 regarding parasites (sea lice) and section 5 regarding containment and escapes.

On this occasion the site was found to be satisfactory with regards to parasites.

Given that there had been an incident of seal interaction including a breach in containment with a seal accessing a pen, the following recommendations were made

- Review escapes reporting procedure including staff training.

Please contact myself or the duty inspector should you require any assistance or clarification in implementing any requirement or recommendation detailed in this report.

Signed:



Date: 07/06/2022

Fish Health Inspector

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Marine Scotland website at <https://www.gov.scot/publications/fish-health-inspectorate-service-charter/>