

Case No:	<input type="text" value="2021-0051"/>	Date of visit:	<input type="text" value="18/05/2021"/>			
Time spent on site:	<input type="text" value="8 Hrs"/>	Main Inspector:	<input type="text" value=""/>			
Site No:	<input type="text" value="FS0247"/>	Site Name:	<input type="text" value="Loch Harport"/>			
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="10.6"/>	Thermometer No:	<input type="text" value="T153"/>	FHI 045 completed	<input type="text" value=""/>	
Observations:	Region:	HI	Water type:	S	CoGP MA	M-27
Dead/weak/abnormally behaving fish present?	<input type="text" value="Y"/>	If yes, see additional information/clinical score sheet.				
Clinical signs of disease observed?	<input type="text" value="Y"/>	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:

Paperwork completed remotely on 14/05/21 by [REDACTED]

Site inspection by [REDACTED], shadowed by [REDACTED], VMD sampling by [REDACTED]

Site uses Environets, changing approximately every 14 days, with the net hanging out of water, this was reported to be effective at eliminating the requirement for net wash on site although more labour intensive during the changing process. Nets were very clean, visibility very good, approx. 40 lethargic fish across site observed deeper in the water. Site has had CMS, but not losing high numbers.

Site currently undergoing FW treatments, reported to be giving very good clearances, this was clearly observed in cages already treated, where shoaling fish had no visible sea lice. Have two tarps within Loch Harport, but also have access to fresh water tarps further north in Skye maintained by another operator. FW treatments are being administered for 12 hours, so only treating one cage per day.

One fish removed from cage 6, hanging vertically. One fish observed nearer the centre of cage 10 below the surface spiralling.

Fish sampled for VMD appeared in very good condition.

Site stocked with Lumpfish, and both farmed and wild wrasse. Site undertook a trial where three cages were stocked with only wild wrasse, with the remaining 9 being stocked with farmed wrasse (4,440 Ballan (Farmed and Wild) and 4,368 Corkwing Wrasse(Wild)) , those stocked with wild wrasse were reported to have had fewer sea lice interventions. Site recently completed their Organic audit and are now operating under the Organic standard.

Case No: Site No:

Date of Visit: Inspector(s):

Registration/Authorisation Details

1. Business/site details summary checked by site representative?

2. Changes made to details?

Site Details (include cleaner fish for all sections)

Total No facilities	<input type="text" value="14"/>	Facilities stocked	<input type="text" value="12"/>	No facilities inspected	<input type="text" value="14"/>
Species	<input type="text" value="SAL WRA"/>	LUM			
Age group	<input type="text" value="2020 Q2"/>	<input type="text" value="Mixed"/>	<input type="text" value="2020"/>		
No Fish	<input type="text" value="275,263"/>	<input type="text" value="8,808"/>	<input type="text" value="25,655"/>		
Mean Fish Wt	<input type="text" value="4.558 kg"/>	<input type="text" value="Mix"/>	<input type="text" value="Mix"/>		
Next Fallow Date (Site)	<input type="text" value="Nov 2021"/>		Next Input Date (Site)	<input type="text" value="Mar 2022"/>	
Recent (last 4 wks) disease problems?	<input type="text" value="N"/>		Any escapes (since last visit)?	<input type="text" value="N"/>	
If yes, detail:	<input type="text" value=""/>				

Movement Records

1. Movement records available for inspection?

2. Date of last inspection:

3. Are records complete and correctly entered?

4. Are movement records available for dead fish and waste?

5. Are records complete and correctly entered?

6. Are health certificates for introductions (outwith GB) available?

Transport Records

1. Are any movements carried out by (or on behalf) of the business (not using a STB)?

If yes, is there a system in place for maintenance of transportation records?

Mortality Records

1. Mortality records available for inspection?

2. How are mortalities disposed of?

If other detail:

3. Mortality records complete and correctly entered?

4. Recent mortality (last 4 wks):

5. Evidence of recent increased/atypical mortalities?

If yes, facility nos/no mortality per facility/no stock per facility/reason:

6. Any other peaks in mortality during period checked?

If yes, detail:

7. Have increased (unexplained) mortalities been reported to vet or FHI?

If yes, detail action:

8. Have 'mortality events' been reported to FHI? If no, enter details on mortality events sheet.

Treatments and Medicines Records

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

Biosecurity Records

1. Biosecurity records available for inspection?	<input type="checkbox"/>	Y
2. Has the manner and frequency of mortality removal, recording and safe disposal been considered?	<input type="checkbox"/>	Y
3. Has the manner and period in which the APB will notify Scottish Ministers or veterinary professional of any <i>increased (unexplained)</i> mortality at the site been included?	<input type="checkbox"/>	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 <i>how</i> and <i>when</i> that will be notified to Scottish Ministers?	<input type="checkbox"/>	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)?	<input type="checkbox"/>	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.)?	<input type="checkbox"/>	Y
7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals held on site?	<input type="checkbox"/>	Y
8. Have the biosecurity procedures been adequately implemented on site?	<input type="checkbox"/>	Y
If no, detail:		

Results of Surveillance

1. Has any animal health surveillance been carried out by, or on behalf of, the business?	<input type="checkbox"/>	Y
2. If yes, are results available for inspection?	<input type="checkbox"/>	Y
3. Any significant results?	<input type="checkbox"/>	N/A
If yes, detail (if not detailed under recent disease problems).		

Records checked between:	01/06/18 to 14/05/21
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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												
Fish nos	1	2	3	4								
Pool Group												
Species	SAL	SAL	SAL	SAL								
Average weight	4 kg	4 kg	4 kg	4 kg								
Sex												
Water Type	SW	SW	SW	SW								
Stock Details		Loch Arkaig	Loch Arkaig	Fanad	Fanad							
	Stock Origin											
Facility No	6	7	10	12								

05/2021 Additional Sample Information:

0

Total Tests assigned

0

Case Number:	2021-0051	Site No:	FS0247	Insp:		
Date of Visit	18/05/2021	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	5
	Frequency of movements on from equivalent zone or compartment including third country	0	9	18	26	0
	Number of suppliers	0	5	10	14	5
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				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		0
	Farm is on-line or in a coastal zone with category V farms upstream or within 1 tidal excursion	1	4	8		0
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				0
	Processing fish from MS of equivalent status	2				0
	Processing fish from zone or compartment of equivalent status	4				0
	Processing fish from Category III farm	8				0
	Processing fish from Category V farm	10				0
Disposal of fish and fish by-products	Site's own waste only processed.	0				0
	Common processes with other farms	3				0
	Collection point for waste from other farms	5				0
Use of unpasteurised feeds	No feeding of unpasteurised feed	0				0
	Feeding unpasteurised feed	5				0
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				0
CoGP/Regulator						
Practices in accordance with regulator or industry code of practice	Yes	0				0
	No	3				0
Platform access to cages	Yes	0				0
	No	2				0
Total Rank					24	MEDIUM

Case No: **2021-0051**

Site No: **FS0247**

Sea Lice Inspection (Seawater Sites Only)

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

Containment Inspection

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

Top net, tensioned nets

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?
If Yes proceed with questions 4 – 9. If No skip to question 10
- 4. Have these been reported to Scottish Ministers?
- 5. Have these been reported to local DSFB forthwith (where they exist)? (CoGP – 4.4.37, 5.4.17)
- 6. Have these been reported to the SSPO and local fisheries trusts forthwith (where they exist)? (CoGP – 4.4.37, 5.4.17)
- 7. Were methods (if any) used to recover escapees? If yes give detail
- 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)
- 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)
- 10. Is the site inspected as satisfactory with regards to containment? If no, please detail reason(s)

Case No: 2021-0051

Site No: FS0247

Date of Visit: 18/05/2021

Inspector: [REDACTED]

Point of Compliance

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

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?

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

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

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

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

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

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?

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

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

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

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?

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?

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

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?

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?

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

Live Fish Movements

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

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

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: FS0247
Case No: 2021-0051
Nature of non-compliance:
Action taken (FHI):
Non-compliance relevant to (delete): VirologyMolGen/Bacteriology/Histology/Parasitology



Case No: **2021-0051** Date of visit: **18/05/2021**
 Site No: **FS0247** Inspector: **[REDACTED]**

Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp

Report Summary			
Case Type	Date	Insp	2 nd Insp
ECI, CNI, SLI, VMD	26/05/2021		

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0119	DATE OF VISIT	18/05/2021
SITE No	FS0247	SITE NAME	Loch Harport
CASE No	20210051	INSPECTORS	[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 medium. An inspection under the Aquatic Animal Health (Scotland) Regulations 2009 will be conducted every second 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.

Records in relation to aquaculture animals transported by the business were inspected and found to be adequately maintained.

Mortality records were inspected and found to be adequately maintained.

Mortality levels had exceeded the reporting criteria since the last inspection and had been reported to the Fish Health Inspectorate as required.

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.

R25

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), section 4A regarding fish farm management agreements and statements and section 5 regarding containment and escapes.

On this occasion the site was found to be satisfactory with regards to parasites, fish farm management agreements and statements and containment and escapes.

Please contact myself or the duty inspector should you require any further information or have any queries regarding this report.



Signed:

Date: 26/05/21

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/>

Case No:	<input type="text" value="2021-0055"/>	Date of visit:	<input type="text" value="20/05/2021"/>			
Time spent on site:	<input type="text" value="5 hrs"/>	Main Inspector:	<input type="text" value=""/>			
Site No:	<input type="text" value="FS1338"/>	Site Name:	<input type="text" value="Scalpay"/>			
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="9.9"/>	Thermometer No:	<input type="text" value="T153"/>	FHI 045 completed	<input type="text" value=""/>	
Observations:	Region:	HI	Water type:	S	CoGP MA	M-28
Dead/weak/abnormally behaving fish present?	<input type="text" value="Y"/>	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:

Paperwork conducted remotely 13/05/21 by [REDACTED], observed by [REDACTED]. Site inspection by [REDACTED], shadowed by [REDACTED]. VMD sampling by [REDACTED]

Site is very exposed, especially from northerly. A lot of movement reportedly goes through the site.

2 fish sampled for VMD, both appeared healthy, site is due to undergo freshwater treatments as sea lice numbers have increased. Site has been harvesting, with the pens worst affected by CMS being targeted) and were thinning down cages during the site inspection using the Inter Caledonia.

Site manager reported that the seal pro nets have been very effective mitigation measure against seal predation, with no seal damage noted on any fish (incl mortalities) since input.

Fish were sitting deeper in the water and visibility was poor at time of inspection.

10-15 mortalities observed across site at time of inspection, these were to be removed, a team was working round the pens, but there were multiple operations on-going including net washing.

One pen unable to inspect fully due to net washing operations and one pen where wellboat operations were on-going where the fish were being crowded to be split to an empty pen.

Case No: Site No:

Date of Visit: Inspector(s):

Registration/Authorisation Details

1. Business/site details summary checked by site representative?

2. Changes made to details?

Site Details (include cleaner fish for all sections)

Total No facilities	<input type="text" value="12"/>	Facilities stocked	<input type="text" value="10"/>	No facilities inspected	<input type="text" value="12"/>
Species	<input type="text" value="SAL"/>	<input type="text" value="LUM"/>	<input type="text" value="WRA"/>		
Age group	<input type="text" value="2020 Q1"/>	<input type="text" value="2020"/>	<input type="text" value="Wild"/>		
No Fish	<input type="text" value="~400,000"/>	<input type="text" value="~35,000"/>	<input type="text" value="~19,000"/>		
Mean Fish Wt	<input type="text" value="4.6 kg"/>	<input type="text" value="Mixed"/>	<input type="text" value="Mixed"/>		
Next Fallow Date (Site)	<input type="text" value="August 2021"/>		Next Input Date (Site)	<input type="text" value="Feb 2020"/>	
Recent (last 4 wks) disease problems?	<input type="text" value="N"/>		Any escapes (since last visit)?	<input type="text" value="N"/>	
If yes, detail:	<input type="text"/>				

Movement Records

1. Movement records available for inspection?

2. Date of last inspection:

3. Are records complete and correctly entered?

4. Are movement records available for dead fish and waste?

5. Are records complete and correctly entered?

6. Are health certificates for introductions (outwith GB) available?

Transport Records

1. Are any movements carried out by (or on behalf) of the business (not using a STB)?

If yes, is there a system in place for maintenance of transportation records?

Mortality Records

1. Mortality records available for inspection?

2. How are mortalities disposed of?

If other detail:

3. Mortality records complete and correctly entered?

4. Recent mortality (last 4 wks):

5. Evidence of recent increased/atypical mortalities?

If yes, facility nos/no mortality per facility/no stock per facility/reason:

6. Any other peaks in mortality during period checked?

If yes, detail:

7. Have increased (unexplained) mortalities been reported to vet or FHI?

If yes, detail action:

8. Have 'mortality events' been reported to FHI? If no, enter details on mortality events sheet.

Treatments and Medicines Records

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

Biosecurity Records

1. Biosecurity records available for inspection?	<input type="checkbox"/>	Y
2. Has the manner and frequency of mortality removal, recording and safe disposal been considered?	<input type="checkbox"/>	Y
3. Has the manner and period in which the APB will notify Scottish Ministers or veterinary professional of any <i>increased (unexplained)</i> mortality at the site been included?	<input type="checkbox"/>	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 <i>how</i> and <i>when</i> that will be notified to Scottish Ministers?	<input type="checkbox"/>	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)?	<input type="checkbox"/>	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.)?	<input type="checkbox"/>	Y
7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals held on site?	<input type="checkbox"/>	Y
8. Have the biosecurity procedures been adequately implemented on site?	<input type="checkbox"/>	Y
If no, detail:		

Results of Surveillance

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

Records checked between:	Input (1st cycle) to 13/05/21
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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													
Fish nos	1	2											
Pool Group													
Species	SAL	SAL											
Average weight	5 kg	5 kg											
Sex													
Water Type	SW	SW											
Stock Details		Sconser Quarry	Sconser Quarry										
	Stock Origin												
Facility No	9	10											

05/2021 Additional Sample Information:

Empty rectangular box for additional sample information.

0 Total Tests assigned 0

Case Number:	2021-0055	Site No:	FS1338	Insp:		
Date of Visit	20/05/2021	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				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		0
	Farm is on-line or in a coastal zone with category V farms upstream or within 1 tidal excursion	1	4	8		0
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				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				0
	Collection point for waste from other farms	5				0
Use of unpasteurised feeds	No feeding of unpasteurised feed	0				0
	Feeding unpasteurised feed	5				0
Biosecurity	Number of sites	1	2 or 3	≥ 4		
Contacts with other sites	Sites operating from single shorebase	0	1	2		1
	Sites sharing staff and equipment	0	1	2		
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				
Total Rank					16	MEDIUM

Case No: **2021-0055**

Site No: **FS1338**

Sea Lice Inspection (Seawater Sites Only)

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

Containment Inspection

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

Top Nets, tensioned nets, Seal Pro Nets,
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?
If Yes proceed with questions 4 – 9. If No skip to question 10
- 4. Have these been reported to Scottish Ministers?
- 5. Have these been reported to local DSFB forthwith (where they exist)? (CoGP – 4.4.37, 5.4.17)
- 6. Have these been reported to the SSPO and local fisheries trusts forthwith (where they exist)? (CoGP – 4.4.37, 5.4.17)
- 7. Were methods (if any) used to recover escapees? If yes give detail
- 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)
- 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)
- 10. Is the site inspected as satisfactory with regards to containment? If no, please detail reason(s)

Case No: 2021-0055

Site No: FS1338

Date of Visit: 20/05/2021

Inspector: [REDACTED]

Point of Compliance

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

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?

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

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

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

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

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

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?

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

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

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

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?

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?

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

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?

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?

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

Live Fish Movements

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

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

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: FS1338
Case No: 2021-0055
Nature of non-compliance:
Action taken (FHI):
Non-compliance relevant to (delete): VirologyMolGen/Bacteriology/Histology/Parasitology

Case No: **2021-0055**

Date of visit: **20/05/2021**

Site No: **FS1338**

Inspector: **[REDACTED]**

Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp

Report Summary			
Case Type	Date	Insp	2 nd Insp
ECl, CNI, SLI, VMD	26/05/2021		

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0119	DATE OF VISIT	20/05/2021
SITE No	FS1338	SITE NAME	Scalpay
CASE No	20210055	INSPECTORS	[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 medium. An inspection under the Aquatic Animal Health (Scotland) Regulations 2009 will be conducted every second 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.

Records in relation to aquaculture animals transported by the business were inspected and found to be adequately / inadequately maintained.

Mortality records were inspected and found to be adequately maintained.

Mortality levels had exceeded the reporting criteria since the last inspection and had been reported to the Fish Health Inspectorate as required.

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.

R25

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), section 4A regarding fish farm management agreements and statements and section 5 regarding containment and escapes.

Please contact myself or the duty inspector should you require any further information or have any queries regarding this report.



Signed:

Date: 26/05/21

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/>

Case No: 2021-0081 Date of visit: 24/05/2021

Time spent on site: 1 hour Main Inspector: [REDACTED]

Site No: SS0354 Site Name: Kyle of Tongue Oysters
Business No: SB0525 Business Name: Kyle of Tongue Oysters Ltd

Case Types: 1 MOV 2 [] 3 [] 4 [] 5 [] 6 []

Water Temp (°C): [] Thermometer No: [] FHI 045 completed []

Observations: Region: HI Water type: S CoGP MA: []

Dead/weak/abnormally behaving fish present? [N] If yes, see additional information/clinical score sheet.
Clinical signs of disease observed? [N] If yes, see additional information/clinical score sheet.
Gross pathology observed? [N] If yes, see additional information/clinical score sheet.
Diagnostic samples taken? [N]

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

Additional Case Information:

~7500/15000. Site stocked with: 2,000,000 2018 CGI @ 80g, 1,600,000 2019 CGI @ 25g, 1,600,000 2020 CGI @ 12.5g, 40 bags ~2013 OED @ ~50g.

Export of live pacific oysters for France -22 pallets - 550,000 - 22000kg - full load. Going via Calais. Details included trailer number, vehicle reg and security tag provided by lorry driver. Observed in stacks at lorry packing area. Seaweed fouling but oysters looked healthy

Certificate MS/2021/0005 issued

No observed mortalities since last inspection or health surveillance.

Case No: 2021-0081

Date of visit: 24/05/2021

Site No: SS0354

Inspector: [Redacted]

Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp

Report Summary			
Case Type	Date	Insp	2 nd Insp
MOV	16/06/2021		

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	SB0525	DATE OF VISIT	24/05/2021
SITE No	SS0354	SITE NAME	Kyle of Tongue Oysters
CASE No	20210081	INSPECTOR	[REDACTED]

Inspection for export

The above site was visited and a consignment of Pacific oysters, grower stage, for export to France was inspected. A health certificate was issued which must travel with the consignment to the destination.

Please contact myself or the duty inspector should you require any further information or have any queries regarding this report.

Signed:



Date: 16/06/2021

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/>

Case No: 2021-0091 Date of visit: 26/05/2021

Time spent on site: 3 hours Main Inspector: [Redacted]

Site No: SS0354 Site Name: Kyle of Tongue Oysters
Business No: SB0525 Business Name: Kyle of Tongue Oysters Ltd

Case Types: 1 MOV 2 [] 3 [] 4 [] 5 [] 6 []

Water Temp (°C): [] Thermometer No: [] FHI 045 completed []

Observations: Region: HI Water type: S CoGP MA: []

Dead/weak/abnormally behaving fish present? [N] If yes, see additional information/clinical score sheet.
Clinical signs of disease observed? [N] If yes, see additional information/clinical score sheet.
Gross pathology observed? [N] If yes, see additional information/clinical score sheet.
Diagnostic samples taken? [N]

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

Additional Case Information:

Export of live pacific oysters for France -22 pallets - 550,000 - 22000kg - full load times two. Going via Calais. Details included trailer number, vehicle reg and security tag provided by lorry driver. Observed in stacks at lorry packing area and on site inspection of oysters in the trestles. Seaweed fouling but oysters looked healthy

~7500/15000. Site stocked with: 1,500,000 2018 CGI @ 80g, 1,600,000 2019 CGI @ 25g, 1,600,000 2020 CGI @ 12.5g, 40 bags ~2013 OED @ ~50g.

Certificate MS/2021/0006 and MS/2021/0007 issued

No observed mortalities since last inspection or health surveillance.

Case No: 2021-0091 Date of visit: 26/05/2021
 Site No: SS0354 Inspector: XXXXXXXXXX

Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp

Report Summary			
Case Type	Date	Insp	2 nd Insp
MOV	16/06/2021		

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	SB0525	DATE OF VISIT	26/05/2021
SITE No	SS0354	SITE NAME	Kyle of Tongue Oysters
CASE No	20210091	INSPECTOR	[REDACTED]

Inspection for export

The above site was visited and two consignments of Pacific oyster, grower stage, for export to France was inspected. A health certificate was issued which must travel with the consignment to the destination.

Please contact myself or the duty inspector should you require any further information or have any queries regarding this report.

Signed:



Date: 16/06/2021

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/>

Case No: Date of visit:

Time spent on site: Main Inspector:

Site No: Site Name:
 Business No: Business Name:

Case Types: 1 2 3 4 5 6

Water Temp (°C): Thermometer No: FHI 045 completed

Observations: Region: ST Water type: S CoGP MA M-42

Dead/weak/abnormally behaving fish present? If yes, see additional information/clinical score sheet.
 Clinical signs of disease observed? If yes, see additional information/clinical score sheet.
 Gross pathology observed? If yes, see additional information/clinical score sheet.
 Diagnostic samples taken?

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

Additional Case Information:

Some increases in mortality, above the 1% mortality threshold. These have been reported to the FHI.

Hydrolicer Treatment is taking place this week due to an increased number of juveniles. Some fish observed with physical damage in cages most recently treated with Hydrolicer. Most fish that were attempted to be removed swam away strongly and very few fish with physical damage in pens not treated/treated previously.

Sea lice figures above CoGP suggested levels for treatment:

30/07/2020 - 1.28 AF

12/03/2020 - 1.01 AF

15/03/2020 - 3.01 AF

Company hydrolicer is now stationed within Loch Fyne and is used whenever lice numbers begin to rise.

VMD fish looked healthy when opened.

Due to Covid-19 paperwork was completed remotely on the 07/05/2021 and a physical inspection of the site took place on the 12/05/2021. Paperwork and inspection completed by [REDACTED], observed by [REDACTED]

Case No: **2021-0115** Site No: **FS1019**

Date of Visit: **12/05/2021**

Registration/Authorisation Details

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

Site Details (include cleaner fish for all sections)

Total No facilities	10	Facilities stocked	
Species	SAL	LUM	
Age group	19 S0	Mix	
No Fish	183,280	~2000	
Mean Fish Wt	6.387 Kg	Mix	
Next Fallow Date (Site)	June 2021	Next Input Date	
Recent (last 4 wks) disease problems?			N
If yes, detail:			

Movement Records

1. Movement records available for inspection?
2. Date of last inspection:
3. Are records complete and correctly entered?
4. Are movement records available for dead fish and waste?
5. Are records complete and correctly entered?
6. Are health certificates for introductions (outwith GB) available?

Transport Records

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

Mortality Records

1. Mortality records available for inspection?
 2. How are mortalities disposed of?
- If other detail:
3. Mortality records complete and correctly entered?
 4. Recent mortality (last 4 wks): **2021 WK15 325 0.18%, 2021 WK16 325 0.18%**
 5. Evidence of recent increased/atypical mortalities?
- If yes, facility nos/no mortality per facility/no stock per facility/reason:
6. Any other peaks in mortality during period checked?
- If yes, detail: **See additional comments.**
7. Have increased (unexplained) mortalities been reported to vet or FHI?
- If yes, detail action:
8. Have 'mortality events' been reported to FHI? If no, enter details on mortality events sheet.

Treatments and Medicines Records

1. Recent treatments (see comment)?

If yes, detail:

T.M.S.

If other, detail:

2. Medicines records available for inspection?

3. Are records complete and correctly entered?

4. Are fish in a withdrawal period?

5. If yes, what treatment(s)?

T.M.S.

If other, detail:

6. Are medicines stored appropriately?

Biosecurity Records

1. Biosecurity records available for inspection?

2. Has the manner and frequency of mortality removal, recording and safe disposal been considered?

3. Has the manner and period in which the APB will notify Scottish Ministers or veterinary professional of any *intra* site been included?

4. Has the action that will be taken in the event that the presence or suspicion of the presence of a listed disease is *intra* and *when* that will be notified to Scottish Ministers?

5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or higher health status)?

6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minimise transmission (movement of staff, visitors, equipment, live or dead fish etc.)?

7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals?

8. Have the biosecurity procedures been adequately implemented on site?

If no, detail:

Results of Surveillance

1. Has any animal health surveillance been carried out by, or on behalf of, the business?

2. If yes, are results available for inspection?

3. Any significant results?

If yes, detail (if not detailed under recent disease problems).

Records checked between:

06/02/2019 - 06/02/2019

Inspector(s): [Redacted]

Y
N

10	No facilities inspected	10
te (Site)	September 2021	
Any escapes (since last visit)?		N

	Y
06/02/2019	
	Y
	Y
	Y
	N/A

	Y
	Y

	Y
Whole fish - Dundas Chemicals	
	Y
21 WK16 250 0.14%; 2021 WK17 349 0.19%;	
	N
	Y
	N/A
	Y

	<input type="checkbox"/>	Y
	<input type="checkbox"/>	Y
	<input type="checkbox"/>	Y
	<input type="checkbox"/>	Y
	<input type="checkbox"/>	Y
	<input type="checkbox"/>	Y
	<input type="checkbox"/>	Y
ased (<i>unexplained</i>) mortality at the	<input type="checkbox"/>	Y
s detected been included and <i>how</i>	<input type="checkbox"/>	Y
th status, certification if required)?	<input type="checkbox"/>	Y
mission of disease been covered	<input type="checkbox"/>	Y
e animals held on site?	<input type="checkbox"/>	Y
	<input type="checkbox"/>	Y
	<input type="checkbox"/>	Y
	<input type="checkbox"/>	N
07/05/2021		

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												
Fish nos	F1	F2										
Pool Group												
Species	SAL	SAL										
Average weight	6.3 Kg	6.3 Kg										
Sex	N/A	N/A										
Water Type	SW	SW										
Stock Details												
		Russelburn	Russelburn									
Stock Origin												
Facility No	3	4										

05/2021 Additional Sample Information:

Empty rectangular box for additional sample information.

0 Total Tests assigned 0

Case Number:	2021-0115	Site No:	FS1019	Insp:		
Date of Visit	12/05/2021	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	
	Number of suppliers	0	5	10	14	
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		2
	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		1
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				
	Common processes with other farms	3				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		2
	Sites sharing staff and equipment	0	1	2		2
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				
Total Rank					23	MEDIUM

Case No: **2021-0115**

Site No: **FS1019**

Sea Lice Inspection (Seawater Sites Only)

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

Containment Inspection

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

ADD Seal Blinds Tensioned nets Top nets

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?
If Yes proceed with questions 4 – 9. If No skip to question 10
- 4. Have these been reported to Scottish Ministers?
- 5. Have these been reported to local DSFB forthwith (where they exist)? (CoGP – 4.4.37, 5.4.17)
- 6. Have these been reported to the SSPO and local fisheries trusts forthwith (where they exist)? (CoGP – 4.4.37, 5.4.17)
- 7. Were methods (if any) used to recover escapees? If yes give detail
- 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)
- 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)
- 10. Is the site inspected as satisfactory with regards to containment? If no, please detail reason(s)

Case No: 2021-0115

Site No: FS1019

Date of Visit: 12/05/2021

Inspector: [REDACTED]

Point of Compliance

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

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?

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

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

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

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

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

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?

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

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

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

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?

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?

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

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?

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?

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

Live Fish Movements

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

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

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?

Case No:	2021-0115	Date of visit:	12/05/2021
Site No:	FS1019	Inspector:	[REDACTED]

Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp

Report Summary			
Case Type	Date	Insp	2 nd Insp
ECI, SLI, CNI, VMD	25/05/2021		

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0169	DATE OF VISIT	12/05/2021
SITE No	FS1019	SITE NAME	Strondoir Bay
CASE No	20210115	INSPECTOR	[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 medium. An inspection under the Aquatic Animal Health (Scotland) Regulations 2009 will be conducted every second 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.

Records in relation to aquaculture animals transported by the business were inspected and found to be adequately maintained.

Mortality records were inspected and found to be adequately maintained.

Mortality levels had exceeded the reporting criteria since the last inspection and had been reported to the Fish Health Inspectorate as required.

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.

R25

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), section 4A regarding fish farm management agreements and statements and section 5 regarding containment and escapes.

On this occasion the site was found to be satisfactory with regards to parasites, fish farm management agreements and statements and containment and escapes.

Please contact myself or the duty inspector should you require any further information or have any queries regarding this report.

Signed:



Date: 25/05/2021

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/>

Case No:	<input type="text" value="2021-0118"/>	Date of visit:	<input type="text" value="13/05/2021"/>			
Time spent on site:	<input type="text" value="4 Hours"/>	Main Inspector:	<input type="text" value=""/>			
Site No:	<input type="text" value="FS0575"/>	Site Name:	<input type="text" value="Ormsary Smolt Unit"/>			
Business No:	<input type="text" value="FB0061"/>	Business Name:	<input type="text" value="Landcatch Natural Selection Ltd"/>			
Case Types:	1 <input type="text" value="ECI"/>	2 <input type="text" value="CNI"/>	3 <input type="text" value="MIX"/>	4 <input type="text" value=""/>	5 <input type="text" value=""/>	6 <input type="text" value=""/>
Water Temp (°C):	<input type="text" value="11.1"/>	Thermometer No:	<input type="text" value="Site"/>	FHI 045 completed	<input type="text" value="Y"/>	
Observations:	Region:	ST	Water type:	F	CoGP MA	
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:

Site thermometer used for biosecurity reasons

Due to ongoing covid-19 situation paperwork was completed remotely on the 19/05/2021 and the physical inspection took place on the 13/05/21. Both were conducted by [REDACTED] and observed by [REDACTED].

Mortality -

WK18 - 22S0 - 3510 (0.45%), 21S1 2219 (0.06%)

WK17 - 21S0 - 3049 (0.08%)

WK16 - 21S1 - 1232 (0.29%), 21S0 - 3011 (0.08%)

WK15 - 21S1 - 467 (0.11%), 21S0 - 4604 (0.12%)

Case No: **2021-0118** Site No: **FS0575**
 Date of Visit: **13/05/2021** Inspector(s): **[REDACTED]**

Registration/Authorisation Details

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

Site Details (include cleaner fish for all sections)

Total No facilities	109	Facilities stocked	64	No facilities inspected	109
Species	SAL	SAL			
Age group	21 S0	22 S1			
No Fish	3,112,958	2,195,942			
Mean Fish Wt	6g	0.5g			
Next Fallow Date (Site)	No plans		Next Input Date (Site)	No plans	
Recent (last 4 wks) disease problems?			N	Any escapes (since last visit)?	N
If yes, detail:	[REDACTED]				

Movement Records

- 1. Movement records available for inspection? **Y**
- 2. Date of last inspection: **25/02/2019**
- 3. Are records complete and correctly entered? **Y**
- 4. Are movement records available for dead fish and waste? **N/A**
- 5. Are records complete and correctly entered? **N/A**
- 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? **[REDACTED]**

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): **See additional information**
- 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. **N/A**

Treatments and Medicines Records

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

Biosecurity Records

1. Biosecurity records available for inspection?	<input type="checkbox"/>	Y
2. Has the manner and frequency of mortality removal, recording and safe disposal been considered?	<input type="checkbox"/>	Y
3. Has the manner and period in which the APB will notify Scottish Ministers or veterinary professional of any <i>increased (unexplained)</i> mortality at the site been included?	<input type="checkbox"/>	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 <i>how</i> and <i>when</i> that will be notified to Scottish Ministers?	<input type="checkbox"/>	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)?	<input type="checkbox"/>	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.)?	<input type="checkbox"/>	Y
7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals held on site?	<input type="checkbox"/>	Y
8. Have the biosecurity procedures been adequately implemented on site?	<input type="checkbox"/>	Y
If no, detail:		

Results of Surveillance

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

Records checked between:	25/02/2019 - 19/05/2021
--------------------------	-------------------------

Case Number:	2021-0118	Site No:	FS0575	Insp:		
Date of Visit	13/05/2021	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	
	Number of suppliers	0	5	10	14	
Movements off	Frequency of movements off	0	3	6	10	10
	Number of destinations	0	3	6	10	6
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				
	Common processes with other farms	3				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		1
	Sites sharing staff and equipment	0	1	2		1
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				
Total Rank					22	MEDIUM

Case No: **2021-0118**

Site No: **FS0575**

Sea Lice Inspection (Seawater Sites Only)

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

Containment Inspection

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

Ren-to-kil Bird Nets Electric Fence

If other, detail below:

Tank lids/cover, some tanks inside

3. Have escape incidents or events been experienced on or in the vicinity of the site since the last FHI inspection? N
If Yes proceed with questions 4 – 9. If No skip to question 10
4. Have these been reported to Scottish Ministers?
5. Have these been reported to local DSFB forthwith (where they exist)? (CoGP – 4.4.37, 5.4.17)
6. Have these been reported to the SSPO and local fisheries trusts forthwith (where they exist)? (CoGP – 4.4.37, 5.4.17)
7. Were methods (if any) used to recover escapees? If yes give detail
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)
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)
10. Is the site inspected as satisfactory with regards to containment? If no, please detail reason(s) Y

Case No: **2021-0118** Date of visit: **13/05/2021**
 Site No: **FS0575** Inspector: **[REDACTED]**

Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp

Report Summary			
Case Type	Date	Insp	2 nd Insp
ECl, CNI	26/05/2021		
MIX	27/05/2021		

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0061	DATE OF VISIT	13/05/2021
SITE No	FS0575	SITE NAME	Ormsary Smolt Unit
CASE No	20210118	INSPECTOR	[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 medium. An inspection under the Aquatic Animal Health (Scotland) Regulations 2009 will be conducted every second 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.

Inspection under the Aquaculture and Fisheries (Scotland) Act 2007

The site was also inspected in accordance with the Aquaculture and Fisheries (Scotland) Act 2007 with respect to section 5 regarding containment and escapes.

On this occasion the site was found to be satisfactory.

R04

Please contact myself or the duty inspector should you require any further information or have any queries regarding this report.

Signed:

A black rectangular box redacting the signature of the Fish Health Inspector.

Fish Health Inspector

Date: 26/05/2021

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/>

Case No: 2021-0119 Date of visit: 04/05/2021

Time spent on site: 30m Main Inspector: [Redacted]

Site No: FS1239 Site Name: Grampian
Business No: FB0544 Business Name: Scotland

Case Types: 1 DIA 2 REP 3 [] 4 [] 5 [] 6 []

Water Temp (°C): N/A Thermometer No: [] FHI 045 completed []

Observations: Region: GR Water type: B CoGP MA: []

Dead/weak/abnormally behaving fish present? N/A If yes, see additional information/clinical score sheet.
Clinical signs of disease observed? N/A If yes, see additional information/clinical score sheet.
Gross pathology observed? N/A If yes, see additional information/clinical score sheet.
Diagnostic samples taken? N/A

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

Additional Case Information:

Notification was received from the Findhorn and Lossie Rivers Trust of a dead eel with suspected fungal infection around the head being found in a smolt trap on the River Findhorn (300803E 857138N). The eel was reported to be 59cm in length and had some small bite marks towards the rear of the fish.

The eel was sampled for screening of known eel pathogens.

Paperwork and sampling completed by [REDACTED] observed by [REDACTED]

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												
Fish nos	1	1										
Pool Group												
Species	EEL	EEL										
Average weight	N/A	N/A										
Sex	N/A	N/A										
Water Type	FW	FW										
Stock Details		Findhorn	Findhorn									
	Stock Origin											
Facility No	N/A	N/A										

Additional Sample Information:

0

Total Tests assigned

6

Case no: 2021-0119 Site No: FS1239 Method of killing: Unknown
 Date of visit: 04/05/2021 Inspector(s): Sheet Relevant: Y

S for strong presence: M for medium presence: W for weak presence

Fish Number								
Time sampled after death (if > 45 minutes)								
External Signs								
Behaviour	Moribund							
	Lethargic							
	Hanging vertical							
	Spiralling							
	Flashing							
	Loss of equilibrium							
Body	Dark							
	Distended abdomen							
	Anorexic							
	Scale Oedema							
Opercula	Shortened							
	Flared							
Haemorrhaging	Throat							
	Ventrum							
	Base of fins							
	Elsewhere							
Eyes	Exophthalmic							
	Enophthalmic (sunken)							
	Cataract							
	Haemorrhagic							
Gills	Pale							
	Zoned							
	Necrotic							
Lesions	Flank							
	Elsewhere							
Vent	Inflamed							
	Trailing faeces							
Lice Load	Estimate numbers							
Internal Signs								
Ascites	Clear							
	Bloody							
Oedema	In tissues							
Heart	Pale/anaemic							
	Granulomas							
	Deformed							
Liver	Petechial haem							
	Gross haem							
	Tissue breakdown							
	Enlarged							
	Colour number(s)							
	Granulomas							
	Lesions							
Pyloric caeca	Petechial haem							
	Tubules mauve							
	Lack of fat							
Spleen	Enlarged							
	Granulomas							
Gut	No food present							
	Yellow pseudo-faeces							
	External haem							
	Internal haem							
Body wall	Haemorrhaging							
Swim bladder	Haemorrhaging							
	Fluid filled							
Kidney	Swollen							
	Grey							
	Granular							
	Liquefied							
General	Parasites present							
	Anaemia							

Additional comments:

Eel had been frozen for storage. Fungal infection evident around the head.

Case No: **2021-0119** Date of visit: **04/05/2021**
 Site No: **FS1239** Inspector: **[REDACTED]**

Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp
MG ANHVQ	0/1	18/05/2021		18/05/2021		04/06/2021		
MG EVEXQ	0/1	18/05/2021		18/05/2021		04/06/2021		
MG FPSY	0/1	18/05/2021		18/05/2021		04/06/2021		
MG IPNP	0/1	18/05/2021		18/05/2021		04/06/2021		
SAPROLEGNIA SP	1/1	18/05/2021		18/05/2021		04/06/2021		
GYRODACTYLUS SP	0/1	18/05/2021		18/05/2021		04/06/2021		

Report Summary			
Case Type	Date	Insp	2 nd Insp
DIA, REP	04/06/2021		

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No FB0544 **DATE OF VISIT** 04/05/2021
SITE No FS1239 **SITE NAME** Grampian
CASE No 20210119 **INSPECTOR** ██████████

Section 1: Summary

The Fish health Inspectorate was notified by the Findhorn, Nairn and Lossie Rivers Trust, that a dead eel had been removed from the Findhorn Red Craig smolt trap with an apparent Saprolegnia infection around the head. The eel was sampled for diagnostic purposes, from the samples taken infection with *Saprolegnia* spp. was identified, no parasites were observed or known eel pathogens detected.

Please contact myself or the duty inspector should you require any further information, have any queries regarding this report or if any problems develop.

Section 2: Case Detail

Observations

The Fish health Inspectorate was notified on the 23rd April 2021 by the Findhorn, Nairn and Lossie Rivers Trust, that a dead eel had been removed from the Findhorn Red Craig smolt trap with an apparent Saprolegnia infection around the head. The eel had been placed in a freezer for storage, following discussions with diagnostic lab staff it was agreed that limited samples for known eel pathogens should be taken. A meeting was arranged with the Director of the Trust to collect, examine and sample the eel on the 4th May 2021.

The eel was 59cm in length and had what appeared to be a significant Saprolegnia infection around the head, there were also what appeared to be small bite marks towards the rear of the fish, these were thought to be from another eel. Internally no gross pathology was observed.

Samples

Samples were collected from one fish according to the table below:

Fish number	Pool number	Species	Stage	Origin
1	1	European Eel (<i>Anguilla Anguilla</i>)	N/A wild	River Findhorn

Results

Bacteriology: Kidney material was tested for segments of nucleic acid indicative of the presence of *Flavobacterium psychrophilum* using real-time PCR (qPCR), the result of this test was negative.

Virology: Tissue samples were tested for segments of nucleic acid indicative of the presence of the pathogens specified below using real-time PCR (qPCR).

The samples tested negative for anguillid herpesvirus 1 (AngHV1), eel virus European (EVE), Eel Virus European X(EVEX).

Parasitology: Fins were collected to determine the presence of parasites using light microscopy and molecular techniques (PCR).

No parasites were detected in the samples examined.

Fungal mycelium was visible covering the skin surface. Mats consisted of grey/beige non-branching aseptate hyphae with sporangia, consistent with *Saprolegnia* spp.

Signed:



Fish Health Inspector

Date: 04/06/2021

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/>

Case No: 2021-0125 Date of visit: 07/05/2021

Time spent on site: 0 min Main Inspector:

Site No: FS1218 Site Name: Callop Fish Rearing Site
Business No: FB0538 Business Name: Broadland Properties Ltd

Case Types: 1 PSI 2 3 4 5 6

Water Temp (°C): Thermometer No: FHI 045 completed

Observations: Region: HI Water type: F CoGP MA:

Dead/weak/abnormally behaving fish present? If yes, see additional information/clinical score sheet.
Clinical signs of disease observed? If yes, see additional information/clinical score sheet.
Gross pathology observed? If yes, see additional information/clinical score sheet.
Diagnostic samples taken?

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

Additional Case Information:

Site fallow since 2015. Site was used in the past to hold hatched wild fish for release into local rivers, with broodstock stripped and removed from the river the fish were released back into for stock improvement purposes.

Tank gets water from different river than the broodfish would come from. Preferred plan would be to have broodfish held at Drimsally Mill, then eggs moved to Conaglen hatchery and then fish onto Callop and released from there. However manager is unsure this would be allowed now. Currently in the process to try and establish how the operation could be picked up again.

Case Number:	2021-0125	Site No:	FS1218	Insp:		
Date of Visit	07/05/2021	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	6
	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		1
	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				
	No	3				3
Platform access to cages	Yes	0				0
	No	2				
Total Rank					14	LOW

Case No: Site No:

Date of case: Inspector(s):

Registration/Authorisation Details

Business/site contacts correct? (if no update site summary sheet)

Site Details

Total No facilities	<input type="text" value="3"/>	No facilities stocked	<input type="text" value="0"/>
Species	<input type="text" value="fallow"/>		
Age group	<input type="text" value=""/>		
No Fish	<input type="text" value=""/>		
Mean Fish Wt	<input type="text" value=""/>		
Next Fallow Date (Site)	<input type="text" value="N/A"/>	Next Input Date (Site)	<input type="text" value="Winter 2022 or Spring 2023"/>

Date of last inspection: (ECI or PSI)

Mortality Information

- Any recent increased or atypical mortalities? (last 4 weeks).
If yes, detail:
- Any increased mortalities? (since last inspection.)
If yes, detail:
- How are mortalities disposed of?
If other detail:

Treatments and Medicines

- Any treatments? (since last inspection)
If yes, detail:
- Other:

Health status and Results of Surveillance

- Any disease on site? (since last inspection)
If yes, detail:
- Has any animal health surveillance been carried out by, or on behalf of, the business?
- Any significant results?
If yes, detail:

Sea lice

- Has the site experienced sea lice problems in the previous 4 years?
If yes, detail:
- Have lice levels stayed below the suggested criteria for treatment in the CoGP since the last inspection?
If no, detail:
- Have average adult female sea lice (*L. salmonis*) 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) since the last inspection?
- If yes to 3, have these been reported to the Fish Health Inspectorate? If no, see comment.
- Does the site have treatment discharge consents relevant to sea lice?
If yes, detail:
- Have therapeutic treatments or the actions taken had a significant impact upon the lice levels recorded?
If no, detail:
- Is there a signed documented farm management agreement or statement relevant to the site and CoGP Farm Management Area (or equivalent)?
- Is the CoGP Farm Management Area (or equivalent) fallowed synchronously on a single year class basis?

Escapes/Containment

1. Any reported escapes? (check prior to phone call)

	N
	N

2. Any escapes? (since last inspection)

If yes, detail:
(include date)

--

Biosecurity Records

1. Any significant changes to your biosecurity procedures since previous visit?

	Y
--	---

If yes, detail:

New plan to be developed prior to stocking.

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0538	DATE OF VISIT	07/05/2021
SITE No	FS1218	SITE NAME	Callop Fish Rearing Site
CASE No	20210125	INSPECTOR	[REDACTED]

Routine surveillance frequency assessment under the Aquatic Animal Health (Scotland) Regulations 2009

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

The information required for the public record of aquaculture production businesses regarding this site was verified and where necessary updated.

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.

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

Please contact myself or the duty inspector should you require any further information or have any queries regarding this report.

Signed:



Fish Health Inspector

Date: 10/05/2021

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/>

Case No:	<input type="text" value="2021-0132"/>	Date of visit:	<input type="text" value="14/05/2021"/>			
Time spent on site:	<input type="text" value="5.5 hours"/>	Main Inspector:	<input type="text" value=""/>			
Site No:	<input type="text" value="FS0253"/>	Site Name:	<input type="text" value="Loch Spelve (B)"/>			
Business No:	<input type="text" value="FB0125"/>	Business Name:	<input type="text" value="Scottish Sea Farms Ltd"/>			
Case Types:	1 <input type="text" value="REP"/>	2 <input type="text" value="WEL"/>	3 <input type="text" value="DIA"/>	4 <input type="text" value=""/>	5 <input type="text" value=""/>	6 <input type="text" value=""/>
Water Temp (°C):	<input type="text" value="9"/>	Thermometer No:	<input type="text" value="T172"/>	FHI 045 completed	<input type="text" value=""/>	
Observations:	Region:	ST	Water type:	S	CoGP MA	M-39
Dead/weak/abnormally behaving fish present?	<input type="text" value="Y"/>	If yes, see additional information/clinical score sheet.				
Clinical signs of disease observed?	<input type="text" value="Y"/>	If yes, see additional information/clinical score sheet.				
Gross pathology observed?	<input type="text" value="Y"/>	If yes, see additional information/clinical score sheet.				
Diagnostic samples taken?	<input type="text" value="Y"/>					

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

Additional Case Information:

Site paperwork inspected remotely by [REDACTED] on 12/05/2021. Physical inspection done by [REDACTED] on 14/05/2021. During physical inspection site inspection conducted due to a complaint from Scottish salmon watch. Whilst group were on site they filmed some moribund fish and fish with lesions that appear to be winter ulcers. The complaint was that a breach of the Animal Welfare Act 2006 had occurred.

WRS caught from wild. Caught in west coast of Scotland.

25/03 - 28/03 Paramove for AGD

28/04 - 30/04 Paramove for AGD

Lice levels low since start of cycle and two prophylactic treatments using azamethiphos (Salmosan)

Wk 9 mortality threshold exceeded to 1.29% 5,155 fish. Associated with a azamethiphos treatment combined with higher than average levels AGD and PGD.

Billy Bowie called onto site during peak in mortality to remove excess mortality that could not be incinerated. Fish disposed of at Barkip Biogas plant.

Ulcers first observed in end of March once fish were crowded for treatment

Some deformities observed by sites staff in February in stock, specifically a compressed head. Other deformities observed during site inspection including shortened snouts, shortened opercular, deformed fins and deformed spines.

Sub-population of runt fish developed, formed predominantly of deformed fish. Planned to bring runt fish off site using a grader on board a well boat that will visit on 17/05/2021. Fish taken off live and will be harvested. Larger fish will be left on site. Two particular cages affected are 12 and 7. Worst cages will be graded first on Monday.

Divers on site on Friday before inspection (07/05/2021) asked to look for deformities during a routine net inspection.

Deformities were observed and communicated to site manager.

Deformities not observed by site staff in all cages.

Proactively been removing runts and moribund fish since April using a hand net.

Complex gill issues diagnosed by FVG on 10/03/2021. FVG called onto site following mortality event. AGD diagnosed by FVG via swabs.

AGD scores improving since mid-April

Fish on site positive for salmonid gill pox, branchiomonas cysticola, piscine reovirus and AGD. Histo results from 13/05/2021, from Pharmaq Analytiq Ltd. Also tested for CMS, HSML, IPNV but not detected.

ADD was removed from the site after the a change in policy that required a license before using an ADD. Site in the process of Feed called "Assist-Skin" (from Biomar) has been used on site since the observation of lesions at the end of March this report. Thermolicer visits: 02/04/2021: cages 3 and 6 treated. 14/04/2021 - 16/04/2021 cages 1, 4, 7, 10, 11 and 12 treated.

During site inspection, 31 moribund fish were removed from the site using a hand net

Case No: **2021-0132** Site No: **FS0253**
 Date of Visit: **14/05/2021** Inspector(s): **[REDACTED]**

Registration/Authorisation Details

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

Site Details (include cleaner fish for all sections)

Total No facilities	12	Facilities stocked	12	No facilities inspected	12
Species	SAL	WRS			
Age group	2020 S1	Mixed			
No Fish	369,195	8,792			
Mean Fish Wt	1.8kg	0.2kg			
Next Fallow Date (Site)	Sept 2021 approx.		Next Input Date (Site)	Undetermined at present	
Recent (last 4 wks) disease problems?				Y	Any escapes (since last visit)? N
If yes, detail:	Two treatments for AGD, paramove used.				

Movement Records

1. Movement records available for inspection? **Y**
 2. Date of last inspection: **09/12/2021**
 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)? **[REDACTED]**
 If yes, is there a system in place for maintenance of transportation records? **[REDACTED]**

Mortality Records

1. Mortality records available for inspection? **Y**
 2. How are mortalities disposed of? **Incinerated - on site**
 If other detail: **Mortalities were removed by Billy Bowie after an increase in mortality in wk 9**
 3. Mortality records complete and correctly entered? **Y**
 4. Recent mortality (last 4 wks): **wk 18: 0.76% 2,835 fish, wk 17: 0.86% 3,268 fish, wk 16: 0.43% 1,633 fish, wk 15: 0.43% 1,633 fish**
 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? **Y**
 If yes, detail: **Mortality at 1.29% reported to FHI in March attributed to complex gill issues and a bath treatment. Mortality returned to below threshold the following week.**
 7. Have increased (unexplained) mortalities been reported to vet or FHI? **Y**
 If yes, detail action: **FHI contacted to report mortality over 1%**
 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:

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)?

If other, detail:

6. Are medicines stored appropriately? Y

Biosecurity Records

1. Biosecurity records available for inspection?

2. Has the manner and frequency of mortality removal, recording and safe disposal been considered?

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?

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?

5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or higher health status, certification if required)?

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.)?

7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals held on site?

8. Have the biosecurity procedures been adequately implemented on site?

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).

Records checked between:

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	F1	F2	F3	F4	F5	P1						
	Fish nos	1	2	3	4	5	1-5						
	Pool Group	P1	P1	P1	P1	P1							
	Species	SAL	SAL	SAL	SAL	SAL	SAL						
	Average weight	1.5000	1.5000	1.5000	1.5000	1.5000	1.5000						
	Sex	N/A	N/A	N/A	N/A	N/A	N/A						
	Water Type	SW	SW	SW	SW	SW	SW						
Stock Details		Barcaldine smolt unit	Barcaldine smolt unit	Barcaldine smolt unit	Barcaldine smolt unit	Barcaldine smolt unit	Barcaldine smolt unit						
	Stock Origin												
	Facility No	3	5	7	7	12							

05/2021	Additional Sample Information: Extra lesion sample in each of the hitology pots. Due to lack of labels, DNA tubes labelled with permanent marker, extra care was taken to ensure lids were secure.
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Total Tests assigned

Case no: 2021-0132

Site No: FS0253

Method of killing: Percussive

Date of visit: 14/05/2021

Inspector(s):

Sheet Relevant: Y

S for strong presence: M for medium presence: W for weak presence

Fish Number		1	2	3	4	5				
Time sampled after death (if > 45 minutes)		2 hours	2 hours	2 hours	2 hours	1 hour				
External Signs										
Behaviour	Moribund	M	M	S	M	M				
	Lethargic	M	M	S	M	M				
	Hanging vertical									
	Spiralling									
	Flashing									
	Loss of equilibrium			S						
Body	Dark									
	Distended abdomen			W						
	Anorexic									
	Scale Oedema									
Opercula	Shortened			W						
	Flared									
Haemorrhaging	Throat									
	Ventrum									
	Base of fins									
	Elsewhere									
Eyes	Exophthalmic									
	Enophthalmic (sunken)									
	Cataract									
	Haemorrhagic									
Gills	Pale	S	M	M	S	M				
	Zoned									
	Necrotic	S								
Lesions	Flank	M				M				
	Elsewhere		M	M	M					
Vent	Inflamed									
	Trailing faeces									
Lice Load	Estimate numbers			2						
Internal Signs										
Ascites	Clear									
	Bloody									
Oedema	In tissues									
Heart	Pale/anaemic									
	Granulomas									
	Deformed									
Liver	Petechial haem	M								
	Gross haem									
	Tissue breakdown									
	Enlarged									
	Colour number(s)									
	Granulomas									
	Lesions									
Pyloric caeca	Petechial haem									
	Tubules mauve									
	Lack of fat		W	W	W	W				
Spleen	Enlarged									
	Granulomas									
Gut	No food present	M	M	M	M	M				
	Yellow pseudo-faeces		W	W						
	External haem									
	Internal haem									
Body wall	Haemorrhaging	W								
Swim bladder	Haemorrhaging									
	Fluid filled									
Kidney	Swollen									
	Grey	M	M	M	M	M				
	Granular	M	M	M						
	Liquefied									
General	Parasites present									
	Anaemia									

Case no: Date of visit:

S for strong presence: M for medium presence: W for weak presence

Fish Number																						
Time sampled after death (if > 45 minutes)																						
External Signs																						
Behaviour	Moribund																					
	Lethargic																					
	Hanging vertical																					
	Spiralling																					
	Flashing																					
	Loss of equilibrium																					
Body	Dark																					
	Distended abdomen																					
	Anorexic																					
	Scale Oedema																					
Opercula	Shortened																					
	Flared																					
Haemorrhaging	Throat																					
	Ventrum																					
	Base of fins																					
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	Cataract																					
	Haemorrhagic																					
Gills	Pale																					
	Zoned																					
	Necrotic																					
Lesions	Flank																					
	Elsewhere																					
Vent	Inflamed																					
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Lice Load	Estimate numbers																					
Internal Signs																						
Ascites	Clear																					
	Bloody																					
Oedema	In tissues																					
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	Granulomas																					
	Deformed																					
Liver	Petechial haem																					
	Gross haem																					
	Tissue breakdown																					
	Enlarged																					
	Colour number(s)																					
	Granulomas																					
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Pyloric caeca	Petechial haem																					
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	Lack of fat																					
Spleen	Enlarged																					
	Granulomas																					
Gut	No food present																					
	Yellow pseudo-faeces																					
	External haem																					
	Internal haem																					
Body wall	Haemorrhaging																					
Swim bladder	Haemorrhaging																					
	Fluid filled																					
Kidney	Swollen																					
	Grey																					
	Granular																					
	Liquefied																					
General	Parasites present																					
	Anaemia																					

Additional comments:

Lesions: F2 lesion on tail, F3 lesion on opercular valve, F4 lesion on opercular valve. Head of F2 and F5 were slightly deformed, opercular valve of F3 was shortened, snout of F5 and F2 were shortened. F3 lost an eye but this was post mortem. Deposit (appears to be fat) on the spleen of F5 (see photos)

Site No: FS0253

Case No: 2021-0132

Nature of non-compliance:

Action taken (FHI):

Non-compliance relevant to (delete): VirologyMolGen/Bacteriology/Histology/Parasitology

Case No: **2021-0132** Date of visit: **14/05/2021**
 Site No: **FS0253** Inspector: **[REDACTED]**

Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp
AGD	5/5	19/05/2021		18/05/2021		03/06/2021		
ISA	1/1	19/05/2021		18/05/2021		03/06/2021		
SAV	0/1	19/05/2021		18/05/2021		03/06/2021		
IPN	0/1	19/05/2021		18/05/2021		03/06/2021		
IHN	0/1	19/05/2021		18/05/2021		03/06/2021		
VHS	0/1	19/05/2021		18/05/2021		03/06/2021		
CGDH	4/5	01/06/2021		28/05/2021		03/06/2021		
EPIT	5/5	01/06/2021		28/05/2021		03/06/2021		
GPAT	5/5	01/06/2021		28/05/2021		03/06/2021		
SULC	5/5	01/06/2021		28/05/2021		03/06/2021		
LPAT	1/5	01/06/2021		28/05/2021		03/06/2021		
KPAT	1/5	01/06/2021		28/05/2021		03/06/2021		
MPAT	4/5	01/06/2021		28/05/2021		03/06/2021		
PMCH	4/5	01/06/2021		28/05/2021		03/06/2021		
PNST	5/5	01/06/2021		28/05/2021		03/06/2021		
SPVP	5/5	01/06/2021		28/05/2021		03/06/2021		
VSPE	5/5	01/06/2021		28/05/2021		03/06/2021		
PHOT	5/5	01/06/2021		28/05/2021		03/06/2021		
VVIS	2/5	01/06/2021		28/05/2021		03/06/2021		

Report Summary			
Case Type	Date	Insp	2 nd Insp
DIA	03/06/2021		

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0125	DATE OF VISIT	14/05/2021
SITE No	FS0253	SITE NAME	Loch Spelve (B)
CASE No	20210132	INSPECTOR	██████████

Section 1: Summary

The site was visited following a welfare complaint. During the physical inspection five fish were removed for diagnostic sampling.

Histopathology examination revealed mixed pathology. Integument displayed ulcerative bacterial dermatitis and the gill displayed complex gill pathology, although the reading of the gill, gut and pyloric caeca of some fish was compromised by autolysis artefacts. Liver of F1 displayed mild zonal haemorrhagic hepatocellular necrosis and glomerular necrosis, potentially linked to *Moritella* infection.

Due to gill health issues observed on site samples were screened for *Neoparamoeba perurans*, salmon gill poxvirus (SPGV) & *Paranucleospora theridion* (syn. *Desmozoon lepeophtherii*) by QPCR and tested positive for all three pathogens.

Samples were screened for infectious salmon anaemia virus (ISAV) by QPCR as part of surveillance program for control of listed diseases. The samples tested positive for infectious salmon anaemia virus (ISAV) by QPCR and the sequence data confirmed to be ISAV HPR0, the non-pathogenic form of the virus. Additionally, an ISAV immunochemistry (IHC) assay that target against the pathogenic form of the virus (ISA-deleted nucleoprotein) was performed and confirmed to be negative for the pathogenic form.

Vibrio sp. *Photobacterium* sp. and *Moritella viscosa* were identified, these can be pathogenic however the level and purity would not suggest they are implicated in current morbidity.

Please contact myself or the duty inspector should you require any further information, have any queries regarding this report or if any problems develop.

Section 2: Case Detail

Observations

The site was visited following a complaint. Whilst the complainant was on site they filmed some moribund fish and fish with lesions that appeared to be winter ulcers. The complaint was that a breach of the Animal Welfare Act 2006 had occurred.

During the inspection of paperwork (that was undertaken remotely with a member of Animal and Plant Health Agency (APHA) present) it was observed that mortality levels were not significantly

R09

elevated and sea lice levels remained low. Veterinary advice had been sought after lesions were observed on the fish in March 2021. The fish were fed on an enriched food to increase the rate of healing in the fish population. A number of deformities were also notified by site staff in February 2021, specifically a compressed head. The business correspondent explained that a sub-population of runt fish had developed during the current cycle, and a well boat visited has been planned to remove this sub-population on 17/05/2021, after the physical inspection of the site. The site staff were also aware of amoebic gill disease and proliferative gill disease in the population. Two treatments using Paramove were conducted in March and April to try to alleviate this issue.

During the physical inspection, members of staff from APHA, Argyll and Bute Council and the Royal Society of the Prevention of Cruelty to Animals (RSPCA) were present. Whilst the physical inspection took place it was clear that there were moribund fish on site. Some fish had lesions and others had deformities. During the physical inspection, 31 moribund fish were removed from the site using a hand net. From these fish, 5 were selected for internal examination and sampling.

Clinical signs of disease included morbidity and lethargy present in all 5 fish sampled. Fish 3 also had a loss of equilibrium, a distended abdomen and a shortened opercula. All fish had pale gills and the gills of fish 1 were also necrotic. All fish had lesions, some on the flank, opercular valve and tail. Fish three also had 2 sea lice present.

Internally, petechial haemorrhaging of the liver and haemorrhaging in the body wall was exhibited in fish 1. There was a lack of fat associated with the pyloric caeca in fish 2-5 and no food was present in the gut of any fish. Pseudo-faeces were present in the gut of fish 2 and 3. The kidney in all fish appeared grey and the kidney of fish 1-3 were also granular.

Samples

Samples were collected from five fish according to the table below:

Fish number	Pool number	Facility number	Species	Stage	Origin
1	1	3	Atlantic salmon (<i>Salmo salar</i>)	Grower 2020 S1 ~1.8kg	Barcaldine Smolt Unit
2	1	5	Atlantic salmon (<i>Salmo salar</i>)	Grower 2020 S1 ~1.2kg	Barcaldine Smolt Unit
3 and 4	1	7	Atlantic salmon (<i>Salmo salar</i>)	Grower 2020 S1 ~1.5kg	Barcaldine Smolt Unit
5	1	12	Atlantic salmon (<i>Salmo salar</i>)	Grower 2020 S1 ~1.5kg	Barcaldine Smolt Unit

Results

Bacteriology: Kidney, gill and lesion material from fish 1 – 5 were inoculated onto appropriate media for the isolation of bacteria.

The following bacteria were isolated.

Vibrio sp. was identified on plates taken from kidney and lesion material of 5/5 fish and gill material of 3/5 fish. The level and purity of growth would not suggest it would be implicated in current

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morbidity, however, on the plates taken from lesion material of fish 4 and 1, the level and purity would suggest it may be the primary source of the lesion sampled. In fish 1 this *Vibrio* sp. was the predominant colony observed in heavy mixed growth and in fish 4 it was observed as almost pure heavy growth.

Photobacterium sp. was identified on plates taken from kidney material of 3/5 fish and lesion material of 5/5 fish.

Moritella viscosa was identified on plates taken from lesion material of fish 1.

The level and purity would not suggest these bacteria would be implicated in current morbidity.

Virology: Tissue samples were tested for segments of nucleic acid indicative of the presence of the pathogens specified below using real-time PCR (qPCR).

ISAV

Pool Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
P1	15.18	35.23	37.01	36.63	POSITIVE

Salmon gill poxvirus

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	17.92	28.36	28.34	28.48	POSITIVE
F2	18.84	32.94	33.58	32.90	POSITIVE
F3	18.79	26.77	26.73	26.82	POSITIVE
F4	19.05	31.32	31.34	31.24	POSITIVE
F5	18.64	27.83	28.07	27.66	POSITIVE

The samples tested negative for infectious haematopoietic necrosis virus (IHNV), infectious pancreatic necrosis virus (IPNV), salmonid alphavirus (SAV) and viral haemorrhagic septicemia virus (VHSV).

Parasitology: Tissue samples were tested for segments of nucleic acid indicative of the presence of the parasites specified below using real-time PCR (qPCR).

Neoparamoeba perurans (AGD)

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	17.92	34.51	34.77	34.10	POSITIVE
F2	18.84	35.37	35.07	34.68	POSITIVE
F3	18.79	33.01	33.50	32.52	POSITIVE
F4	19.05	33.02	32.50	32.26	POSITIVE
F5	18.64	30.60	30.68	30.53	POSITIVE

Paranucleospora theridion

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	17.92	24.58	24.75	24.64	POSITIVE
F2	18.84	22.86	22.87	22.85	POSITIVE
F3	18.79	22.15	22.15	22.22	POSITIVE
F4	19.05	23.33	23.37	23.37	POSITIVE
F5	18.64	21.46	21.70	21.49	POSITIVE

Histology: Tissue samples of gill, skin and skeletal muscle, heart, pyloric caeca, pancreas, hind gut, liver, spleen and kidney were taken from five fish. The tissue samples were fixed in 10% neutral buffered formalin.

Histopathological examination revealed the following:

Gill: Mild interlamellar epithelial hyperplasia and lamellar fusion, observed mainly at the tips of the gill filaments (F1-F3, F5). Few scatter lamellar vessels displaying necrosis (F1). Several basophilic epithelial inclusions (likely epitheliocystis) also noted in all fish. Several scattered aneurysmal dilation/telangiectasia, lamellar congestion and freed blood among gill filaments (F1-F5). Autolytic artefacts noted on F1-F4. F4, gill reading hindered by autolytic artefacts.

Skin & Muscle: Absence of epidermal, mild dermal oedema and presence of rod-shaped Gram-negative bacteria noted in F1-F2, F4 exhibited moderate, multifocal, skeletal muscle necrosis and degeneration. The red muscle displayed mild haemorrhage and some leucocyte cell infiltration.

Gut and pyloric caeca: Some to marked cell sloughing, likely associated with post-mortem artefacts (F1, F2, F3, F4, F5).

Pancreas: Within the normal range. F2 exhibited some autolytic artefacts.

Liver: Random, mild, multifocal hepatocellular cell degeneration and necrosis, multifocal congestion and dilation of the hepatic sinusoids and foci of sinusoidal haemorrhage with several cells exhibiting granules of melanin. A varied number of hepatocytes exhibited cytoplasmic inclusions roughly spherical of varied size (ranging from 9.8 to 17.8 µm), some being brightly eosinophilic but the majority presented more basophilic properties, potentially linked to erythrocyte degradation..

Kidney: Several glomeruli displayed shrunken appearance, congested vessels and proteinaceous material with in Bowman capsule (F1). F2 and F3 also exhibited within the glomeruli eosinophilic material, potentially linked with erythrocyte degradation.

Spleen: Within the normal range

Signed:



Fish Health Inspector

Date: 03/06/2021

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/>

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Website - www.gov.scot/Topics/marine/science



Image 1: Fish with lesions



Image 2: Fish 1 on deck of boat



Image 3: Fish 2 on deck of boat



Image 4: Fish 1 – 5 before sampling



Image 5: Fish 1 (from cage 3)



Image 6: Fish 2 (from cage 5)



Image 7: Fish 3 (from cage 7)



Image 8: fish 3 and 4 (both from cage 7)



Image 9: Fish 5 (from cage 12)

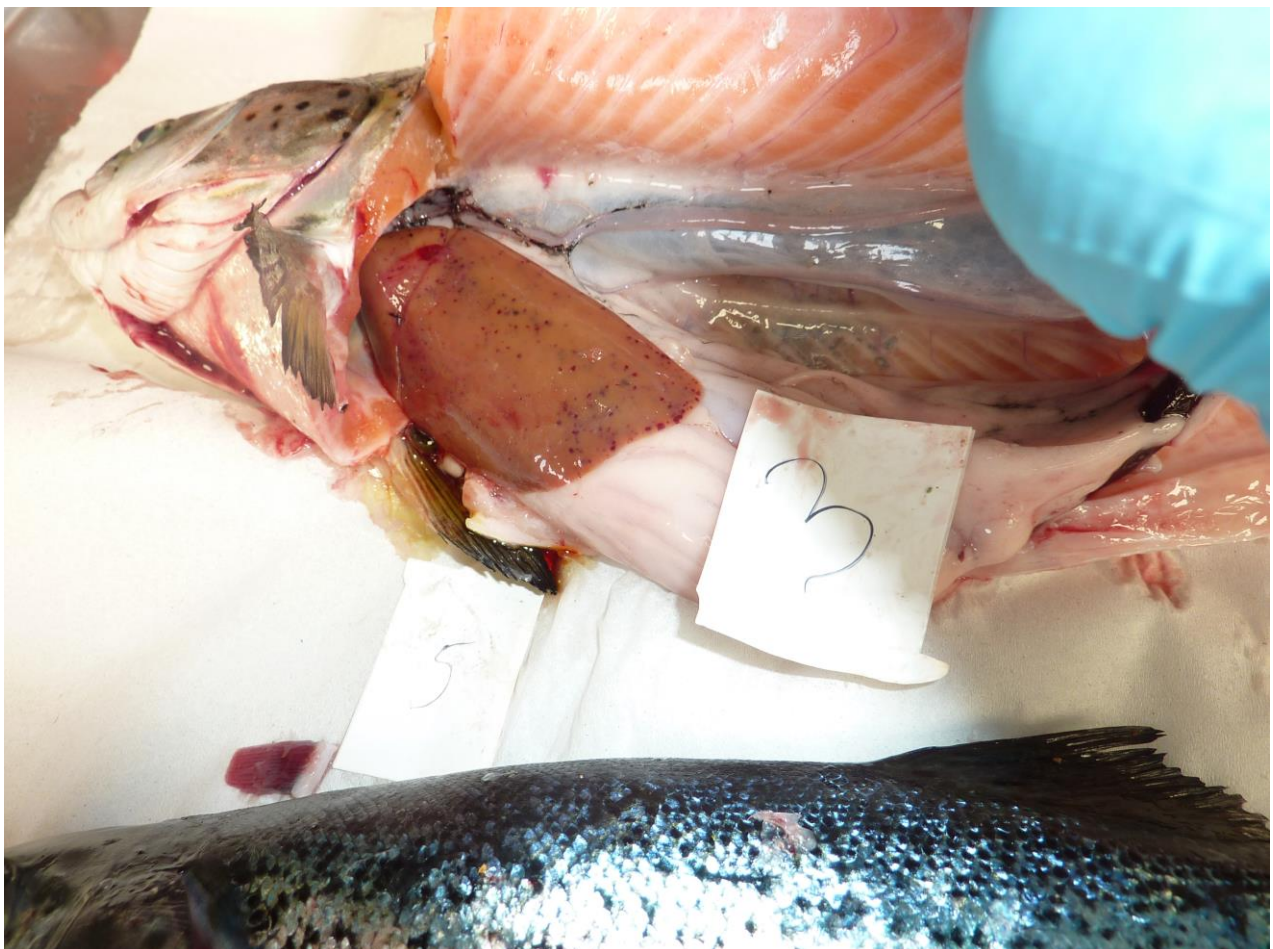


Image 10: petechial haemorrhaging of the liver (fish 1 from cage 3)

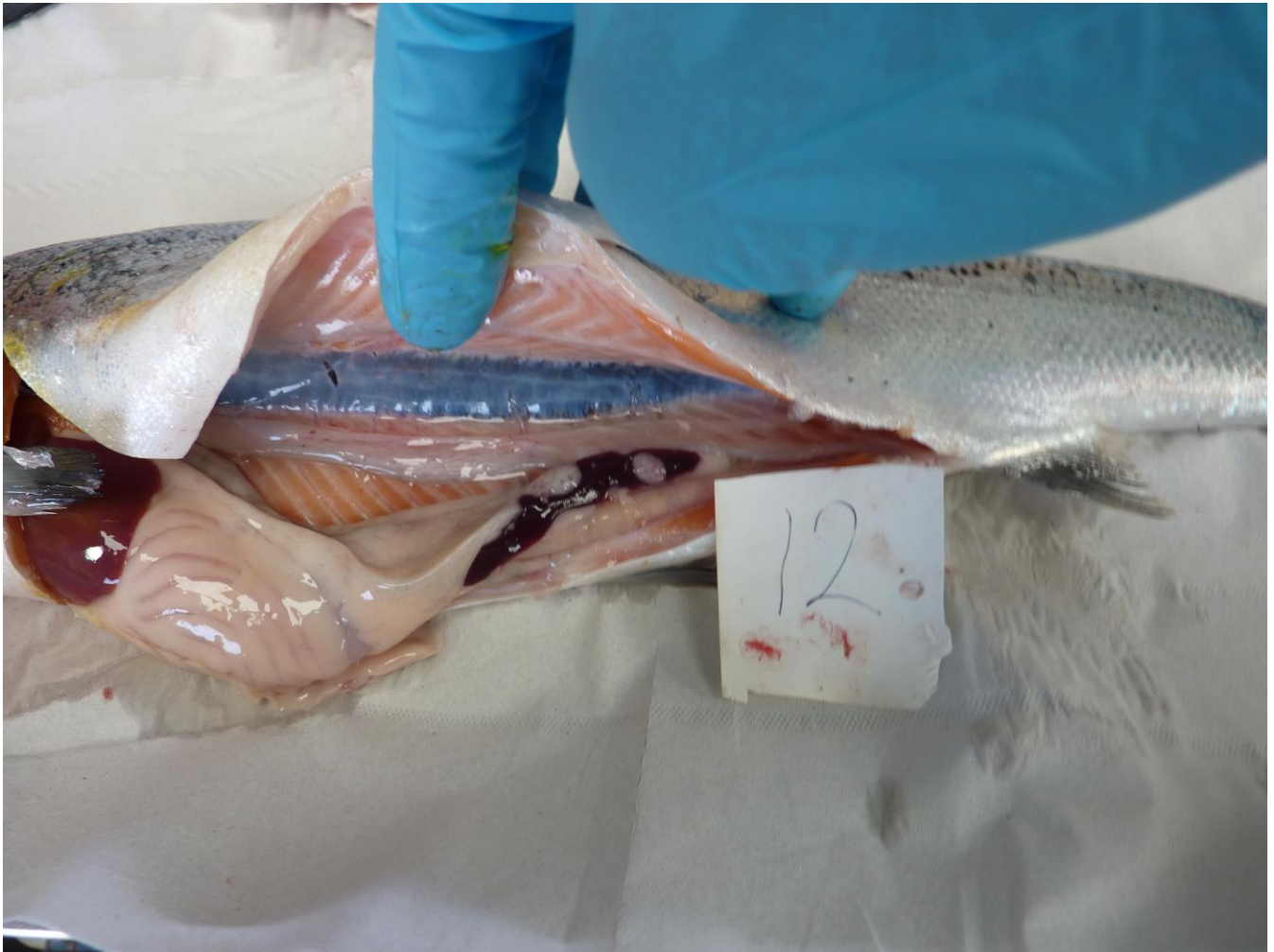


Image 11: spots (possibly fat) on the spleen (fish 5, from cage 12)