

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: WI Water type: S CoGP MA W-3

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:

Follow-up visit with inspector from APHA after concerns about welfare raised during case 2019-0647.

Disease issues - PD, Anaemia, Yersinia ruckeri, one case of CMS and recently algal bloom AGD.

No PD vaccine in this cycle, which has impacted cycle. Mortality losses as a consequence of PD and loss of conditioning.

Fish ensiled on site, any mass mortality event the fish are sent to landfill (white shore cockles and Deer dykes (ensiled waste) biogen, whole fish gogar).

Most issues with plankton bloom and AGD, freshwater treatment planned for next week. Potential for an intensive freshwater treatment which lasts for between 10-16 hours. Fish seem to come out of freshwater treatment in better condition.

pen two and four have the highest levels of mortalities, suffering from gill issues and treatment losses.

Lumpfish mortalities- 72% (115,314) lumpfish mortalities over the cycle across the site. This has been caused by mechanical and freshwater treatments, as well as disease issues. Health specialists had been on site in October and prescribed an in-feed florfenicol treatment and mortalities dropped. All other mortalities explained/action taken.

Diagnostic samples not taken, as these were previously taken on the 29/10/2019 during case 20190647.

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

Total No facilities	<input type="text" value="17"/>	Facilities stocked	<input type="text" value="6"/>	No facilities inspected	<input type="text" value="17"/>
Species	<input type="text" value="SAL LUM"/>				
Age group	<input type="text" value="q4 2018"/>	<input type="text" value="Mix"/>			
No Fish	<input type="text" value="311,458"/>	<input type="text" value="43,876"/>			
Mean Fish Wt	<input type="text" value="3.2 Kg"/>	<input type="text" value="Mix"/>			
Next Fallow Date (Site)	<input type="text" value="June/July 2020"/>		Next Input Date (Site)	<input type="text" value="November 2020"/>	

Recent (last 4 wks) disease problems? Any escapes (since last visit)?
 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):
 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, add MRT case and enter on mortality events sheet.

1. Recent treatments (last 4 wks)?	<input type="checkbox"/>	Y
If yes, detail:	T.M.S., Salmosan	
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., Salmosan	
If other, detail:		
6. Are medicines stored appropriately?	<input type="checkbox"/>	N/A

Biosecurity Records

1. Biosecurity records available for inspection?	<input type="checkbox"/>
2. Has the manner and frequency of mortality removal, recording and safe disposal been considered?	<input type="checkbox"/>
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"/>
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"/>
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"/>
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"/>
7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals held on site?	<input type="checkbox"/>
8. Have the biosecurity procedures been adequately implemented on site?	<input type="checkbox"/>
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"/>
2. If yes, are results available for inspection?	<input type="checkbox"/>
3. Any significant results?	<input type="checkbox"/>
If yes, detail (if not detailed under recent disease problems).	

Records checked between: 29/10/2019 - 13/11/2019

Case No: 2019-0300

Date of visit: 12/11/2019

Site No: FS1033

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
WEL	18/11/2019	[Redacted]	[Redacted]



[REDACTED]
Mowi Scotland Ltd
Stob Ban House
Glen Nevis Business Park
Fort William
PH33 6RX
[REDACTED]

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0119	DATE OF VISIT	12/11/2019
SITE No	FS1033	SITE NAME	North Shore
INSPECTOR	[REDACTED]	CASE No	20190300

The fish health inspectorate accompanied an inspector from the Animal and Plant Health Agency during a visit to the above site.

Records

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.

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

Signed: [REDACTED]

Date: 18/11/2019

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Marine Scotland website at www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter

Case No:	<input type="text" value="2019-0394"/>	Date of visit:	<input type="text" value="25/11/2019"/>			
Time spent on site:	<input type="text" value="6hrs"/>	Main Inspector:	<input type="text" value=""/>			
Site No:	<input type="text" value="SS0901"/>	Site Name:	<input type="text" value="Dornoch Firth West"/>			
Business No:	<input type="text" value="SB0544"/>	Business Name:	<input type="text" value="Heriot Watt University"/>			
Case Types:	1 <input type="text" value="STS"/>	2 <input type="text" value=""/>	3 <input type="text" value=""/>	4 <input type="text" value=""/>	5 <input type="text" value=""/>	6 <input type="text" value=""/>
Water Temp (°C):	<input type="text" value="6.8"/>	Thermometer No:	<input type="text" value="T153"/>	FHI 045 completed	<input type="text" value=""/>	
Observations:	Region:	HI	Water type:	S	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 visited following positive QPCR/sequencing for *Bonamia ostrea*, site was screening shells before relaying for restoration project. Site visited on 23/11/19, however due to conditions experienced on site, unable to collect the 150 shell sample, therefore follow-up visit scheduled for 25/11/19, 164 shells collected - both stocks on site (10 Loch Ryan and 154 Sgeir Liath).

Site had been due to input next batch 23 & 24th Nov, however, these plans were delayed until spring and until results known from statutory sample. Next batch of 8,000 OED were due to come from Leac Nan Sgarbh Little Loch Broom (SS0877). Small window for conducting dive at site, ~1hr during slack tide, divers reported that visibility was worst they had encountered on site.

It was reported that growth is better at the Dornoch Firth East (FS0900) site.

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

Total No facilities	<input type="text" value="15"/>	Facilities stocked	<input type="text" value="15"/>	No facilities inspected	<input type="text" value="0"/>
Species	<input type="text" value="OED"/>				
Age group	<input type="text" value="MIXED"/>				
No Fish	<input type="text" value="~6,000"/>				
Mean Fish Wt	<input type="text" value="MIXED"/>				
Next Fallow Date (Site)	<input type="text" value="N/A"/>	Next Input Date (Site)	<input type="text" value="Spring?"/>		

Recent (last 4 wks) disease problems? Any escapes (since last visit)?
 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):
- 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, add MRT case and enter on mortality events sheet.

1. Recent treatments (last 4 wks)?	
If yes, detail:	
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)?	
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 <i>increased (unexplained)</i> 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 <i>how</i> and <i>when</i> 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).	Bonamia ostrea - commercial sample.	

Records checked between:	N/A - University, not required to records
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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	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12
Fish nos	1	2	3	4	5	6	7	8	9	10	11	12
Pool Group												
Species	OED	OED	OED	OED	OED	OED	OED	OED	OED	OED	OED	OED
Average weight	40g	40g	40g	40g	40g	40g	40g	40g	40g	20g	20g	20g
Sex	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Water Type	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW
Stock Origin	Loch Ryan, Shore Site and Buildings	Loch Ryan, Shore Site and Buildings	Loch Ryan, Shore Site and Buildings	Loch Ryan, Shore Site and Buildings	Loch Ryan, Shore Site and Buildings	Loch Ryan, Shore Site and Buildings	Loch Ryan, Shore Site and Buildings	Loch Ryan, Shore Site and Buildings	Loch Ryan, Shore Site and Buildings	Sgeir Liath	Sgeir Liath	Sgeir Liath
Facility No	Seabed	Seabed	Seabed	Seabed	Seabed	Seabed	Seabed	Seabed	Seabed	Seabed	Seabed	Seabed

11/2019 Additional Sample Information:
 Oysters sampled in lab. F8 - pale DG, F34 - small tissue to shell, pale gills, F40 bubbles in shell, F51 pale DG, F53 pale DG. F1-F55 sampled by [REDACTED] F67-F150 sampled by [REDACTED]

139 Total Tests assigned 3

F13	F14	F15	F16	F17	F18	F19	F20	F21	F22	F23	F24	F25	F26	F27	F28
13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
OED	OED	OED	OED	OED	OED	OED	OED	OED	OED	OED	OED	OED	OED	OED	OED
20g	20g	20g	20g	20g	20g	20g	20g	20g	20g	20g	20g	20g	20g	20g	20g
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW
Sgeir Liath	Sgeir Liath	Sgeir Liath	Sgeir Liath	Sgeir Liath	Sgeir Liath	Sgeir Liath	Sgeir Liath	Sgeir Liath	Sgeir Liath	Sgeir Liath	Sgeir Liath	Sgeir Liath	Sgeir Liath	Sgeir Liath	Sgeir Liath
Seabed	Seabed	Seabed	Seabed	Seabed	Seabed	Seabed	Seabed	Seabed	Seabed	Seabed	Seabed	Seabed	Seabed	Seabed	Seabed

Case No: 2019-0394

Date of visit: 25/11/2019

Site No: SS0901

Inspector: [REDACTED]

Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp
MG Bon sp.	6/139	09/12/2019	[REDACTED]			23/11/2019	[REDACTED]	
MG Bon PCR	8/8	09/12/2019	[REDACTED]			23/11/2019	[REDACTED]	
BOST	3/3	09/12/2019	[REDACTED]			23/11/2019	[REDACTED]	
MG Sequencing Bon	1/1	09/12/2019	[REDACTED]			23/11/2019	[REDACTED]	

Report Summary			
Case Type	Date	Insp	2 nd Insp
STS	23/11/2019	[REDACTED]	[REDACTED]

Heriot Watt University
John Muir Building
Heriot Watt University
Riccarton Campus, Edinburgh
EH14 4AS

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	SB0544	DATE OF VISIT	25/11/2019
SITE No	SS0901	SITE NAME	Dornoch Firth West
INSPECTOR		CASE No	20190394

Statutory test

The above site was inspected and samples collected to be screened for the presence of *Bonamia ostreae*. From the 164 samples collected only 139 were viable at time of sampling. The site was placed under suspicion for the presence of *Bonamia ostreae* as it had received native oysters (*Ostrea edulis*) from a site confirmed as positive for *Bonamia ostreae*.

Samples

139 *Ostrea edulis* were tested for the presence of *Bonamia ostreae*. Samples were collected according to the table below:

Fish number	Facility Number	Stage	Origin
1 - 9	Seabed	~40g	Loch Ryan, Shore Site & Buildings
10 - 55	Seabed	~20g	Sgeir Liath
67 - 150	Seabed	~20g	Sgeir Liath

Results

Molecular genetics: Tissue samples were tested for a segment of DNA indicative of the presence of the *Bonamia* sp. using real-time PCR (QPCR).

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (QPCR)
F44	11.47	27.74	27.71	27.97	POSITIVE
F50	12.40	24.26	24.13	24.28	POSITIVE
F53	10.72	31.89	31.76	31.99	POSITIVE
F109	13.20	28.60	28.72	28.58	POSITIVE
F110	12.28	17.98	17.90	17.90	POSITIVE
F147	13.84	17.63	17.67	17.63	POSITIVE

F110 was sequenced and confirmed to be *Bonamia ostreae*.

Histology: Tissue samples of gill, mantle and digestive gland were taken from F1 – 59 and 67 - 150. The tissue samples were fixed in Davidson's fixative.

Histological examination of F110 & F147 displayed high numbers of microcells consistent with *Bonamia* sp. and F109 had very, very light parasite intensity.

Appraisal

One sample (F110) was sequenced and *Bonamia ostreae* was confirmed.

The movement restrictions placed on the site will remain in force. You must continue to apply for permission to move live or dead fish onto or off the site. Please submit applications at least five working days prior to the movement.

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



Signed:

Date: 23/12/19

Fish Health Inspector

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Marine Scotland website at www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter

Case 2019-0394 (Dornoch Firth West)



Image 1: F51 (pale digestive gland)

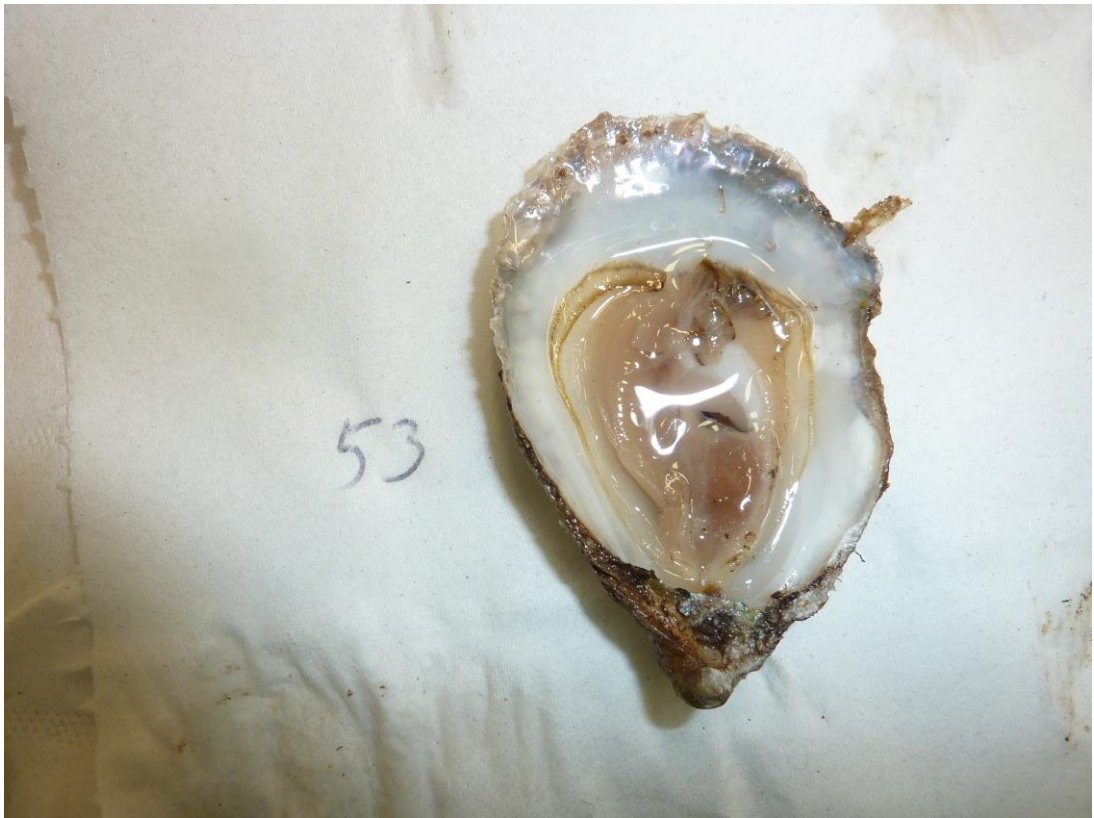


Image 2: F53 (pale digestive gland)



Image 3: F8 (pale digestive gland)



Image 4: F34 (small volume of tissue compared to shell size and pale gills)

Case No:	<input type="text" value="2019-0559"/>	Date of visit:	<input type="text" value="13/11/2019"/>			
Time spent on site:	<input type="text" value="4 hours"/>	Main Inspector:	<input type="text" value=""/>			
Site No:	<input type="text" value="FS1297"/>	Site Name:	<input type="text" value="Tabhaigh"/>			
Business No:	<input type="text" value="FB0119"/>	Business Name:	<input type="text" value="Mowi Scotland Ltd"/>			
Case Types:	1 <input type="text" value="REG"/>	2 <input type="text" value="REP"/>	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="11.4"/>	Thermometer No:	<input type="text" value="T275"/>	FHI 045 completed	<input type="text" value=""/>	
Observations:	Region:	WI	Water type:	S	CoGP MA	W-3
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:

Post treatment losses - salmosan and thermolicing (26/10)

Initially losses occurred before treatment - However from 26/10 treatment losses have also been a factor in increased mortalities.

Health report 15/10/2019 - Mortalities have increased during treatments which has exacerbated problems on site. There have been issues with compromised gills, gill bleeding and anaemia. Gill damage is suspected to be caused by an environmental irritant, however a definitive cause has still to be found. Dissolved oxygen has been low in pens with lice skirts, and these have been removed to increase flow through.

There were around 25 morts removed from pen that was being treated with the hydrolicer while on site, site representative said that fish tend to recover well after the treatment. It was noted that several untreated cages had a high number of lethargic (but not necessarily moribund) fish hanging around the edges of the cage, but many of these scattered when approached.

Lumpfish records were available for movements onto site, however not for movements off site. Manager reminded of obligation to keep movement records for cleanerfish offsite.

Case No: **2019-0559** Site No: **FS1297**
 Date of Visit: **13/11/2019** Inspector(s): **[REDACTED]**

Registration/Authorisation Details

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

Site Details

Total No facilities	10		Facilities stocked	3		No facilities inspected	10	
Species	SAL	LUM	WRA					
Age group	2018 q4		Mix	Mix				
No Fish	128,254		24,589	5,542				
Mean Fish Wt	3.587 Kg		Mix	Mix				
Next Fallow Date (Site)	November 2019			Next Input Date (Site)	November 2020			

Recent (last 4 wks) disease problems? **Y** Any escapes (since last visit)? **N**
 If yes, detail: **Anaemia**

Movement Records

- 1. Movement records available for inspection? **Y**
- 2. Date of last inspection: **28/05/2019**
- 3. Are records complete and correctly entered? **N**
- 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? **Ensiled - on site**
- If other detail: **[REDACTED]**
- 3. Mortality records complete and correctly entered? **Y**
- 4. Recent mortality (last 4 wks): **Oct 12 - 1.17% (8898) 19/10 2.69% (6269) 26/10 - 3.95% (8967) 02/11 - 3.17% (6901)**
- 5. Evidence of recent increased/atypical mortalities? **Y**
- If yes, facility nos/no mortality per facility/no stock per facility/reason: **Pen 23/25 443/274 per day**

- 6. Any other peaks in mortality during period checked? **Y**
- If yes, detail: **Aug - Salmosan treatment, anaemia. 39,575 over the month**
- 7. Have increased (unexplained) mortalities been reported to vet or FHI? **Y**
- If yes, detail action: **FVG and Health specialists called onto site. See additional comments for report**
- 8. Have 'mortality events' been reported to FHI? If no, add MRT case and enter on mortality events sheet. **Y**

1. Recent treatments (last 4 wks)?	<input type="checkbox"/>	Y
If yes, detail:	T.M.S., Salmosan	
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., Salmosan	
If other, detail:		
6. Are medicines stored appropriately?	<input type="checkbox"/>	Y

Biosecurity Records

1. Biosecurity records available for inspection?	<input type="checkbox"/>
2. Has the manner and frequency of mortality removal, recording and safe disposal been considered?	<input type="checkbox"/>
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"/>
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"/>
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"/>
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"/>
7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals held on site?	<input type="checkbox"/>
8. Have the biosecurity procedures been adequately implemented on site?	<input type="checkbox"/>
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"/>	Y
If yes, detail (if not detailed under recent disease problems).	See additional comments	

Records checked between: 28/05/2019 - 13/11/2019

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	3.587 K	3.587 K	3.587 K	3.587 K	3.587 K	3.587 Kg						
Sex	N/A	N/A	N/A	N/A	N/A	N/A						
Water Type	SW	SW	SW	SW	SW	SW						
Stock Details		Loch Lochy	Loch Lochy	Loch Lochy	Loch Lochy	Loch Lochy						
	Stock Origin											
Facility No	4	4	5	5	5							

11/2019 Additional Sample Information:

Total Tests assigned

Case no: 2019-0559

Site No: FS1297

Method of killing: Percussive

Date of visit: 13/11/2019

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

Additional comments:

Site No: FS1297
Case No: 2019-0559
Nature of non-compliance:
Action taken (FHI):
Non-compliance relevant to (delete): VirologyMolGen/Bacteriology/Histology/Parasitology



Case No: 2019-0559

Date of visit: 13/11/2019

Site No: FS1297

Inspector: [Redacted]

Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp
AGDQ	5/5	20/11/2019	[Redacted]	20/11/2019	[Redacted]	19/12/2019	[Redacted]	[Redacted]
PNST	5/5	20/11/2019	[Redacted]	20/11/2019	[Redacted]	19/12/2019	[Redacted]	[Redacted]
SPVP	5/5	20/11/2019	[Redacted]	20/11/2019	[Redacted]	19/12/2019	[Redacted]	[Redacted]
IHNP	0/1	20/11/2019	[Redacted]	20/11/2019	[Redacted]	19/12/2019	[Redacted]	[Redacted]
IPNP	0/1	20/11/2019	[Redacted]	20/11/2019	[Redacted]	19/12/2019	[Redacted]	[Redacted]
IPNM	0/1	20/11/2019	[Redacted]	20/11/2019	[Redacted]	19/12/2019	[Redacted]	[Redacted]
ISAQ	0/1	20/11/2019	[Redacted]	20/11/2019	[Redacted]	19/12/2019	[Redacted]	[Redacted]
SALP	0/1	20/11/2019	[Redacted]	20/11/2019	[Redacted]	19/12/2019	[Redacted]	[Redacted]
VHSP	0/1	20/11/2019	[Redacted]	20/11/2019	[Redacted]	19/12/2019	[Redacted]	[Redacted]
GPAT	2/5	13/12/2019	[Redacted]	13/12/2019	[Redacted]	19/12/2019	[Redacted]	[Redacted]
CGDH	2/5	13/12/2019	[Redacted]	13/12/2019	[Redacted]	19/12/2019	[Redacted]	[Redacted]
LPAT	1/5	13/12/2019	[Redacted]	13/12/2019	[Redacted]	19/12/2019	[Redacted]	[Redacted]
SKIN	2/5	13/12/2019	[Redacted]	13/12/2019	[Redacted]	19/12/2019	[Redacted]	[Redacted]
CMPS	5/5	13/12/2019	[Redacted]	13/12/2019	[Redacted]	19/12/2019	[Redacted]	[Redacted]
PMCH	1/5	13/12/2019	[Redacted]	13/12/2019	[Redacted]	19/12/2019	[Redacted]	[Redacted]
EPIT	1/5	13/12/2019	[Redacted]	13/12/2019	[Redacted]	19/12/2019	[Redacted]	[Redacted]
ADHE	1/5	13/12/2019	[Redacted]	13/12/2019	[Redacted]	19/12/2019	[Redacted]	[Redacted]
VSPE	5/5	13/12/2019	[Redacted]	13/12/2019	[Redacted]	19/12/2019	[Redacted]	[Redacted]
VVIS	1/5	13/12/2019	[Redacted]	13/12/2019	[Redacted]	19/12/2019	[Redacted]	[Redacted]
NSIG	1/5	13/12/2019	[Redacted]	13/12/2019	[Redacted]	19/12/2019	[Redacted]	[Redacted]
PMCV	1/1	13/12/2019	[Redacted]	13/12/2019	[Redacted]	19/12/2019	[Redacted]	[Redacted]
VSPE	1/5	13/12/2019	[Redacted]	13/12/2019	[Redacted]	19/12/2019	[Redacted]	[Redacted]

Report Summary			
Case Type	Date	Insp	2 nd Insp
REP, DIA	17/12/2019	[Redacted]	[Redacted]



Note - attachments file must be saved to ARC folder as PDF with correct name format e.g. 2012-0123-attach or 2012-0123-attach2 etc.



Fish 1



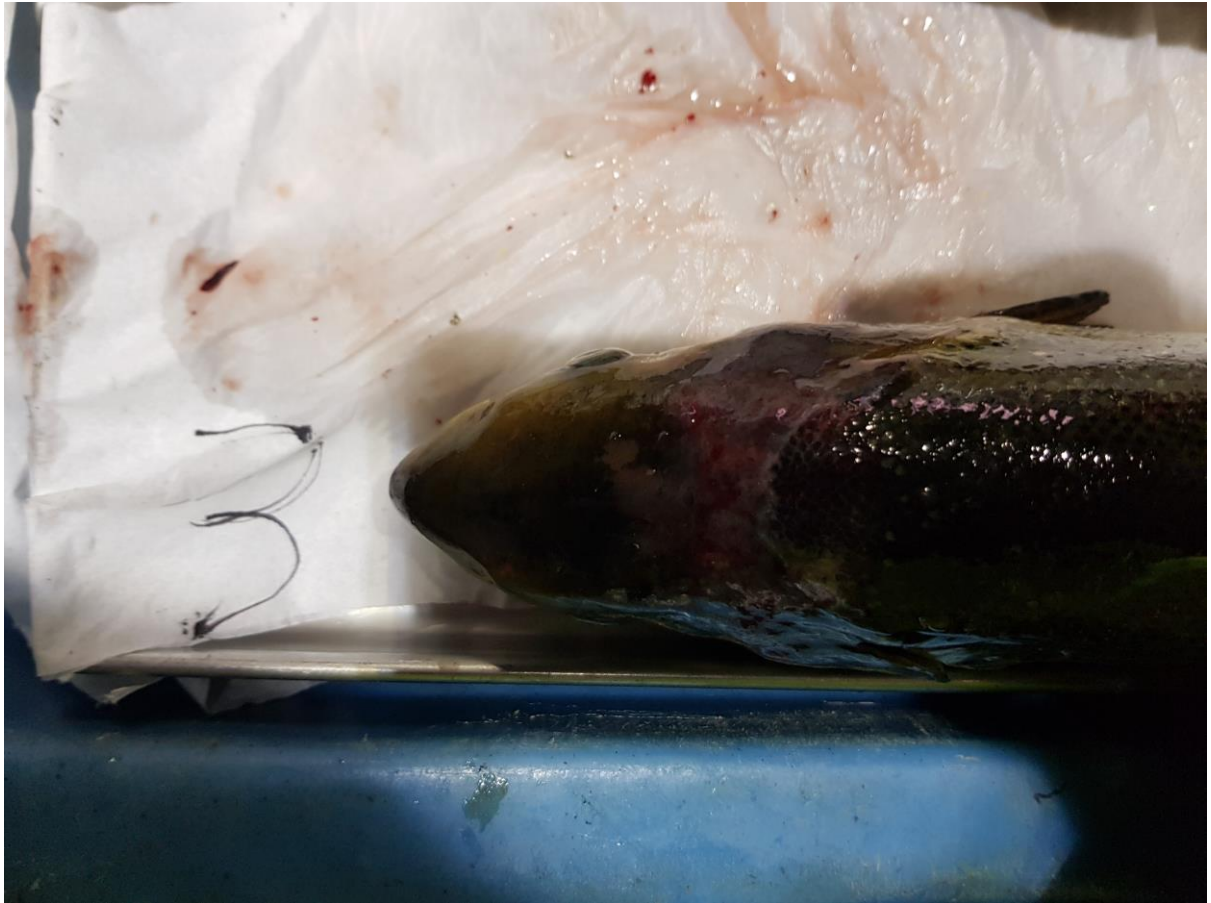


Fish 2



Fish 3





Fish 4





Fish 5





██████████
Mowi Scotland Ltd
Stob Ban House
Glen Nevis Business Park
Fort William
PH33 6RX
██████████

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0119	DATE OF VISIT	12/11/2019
SITE No	FS1297	SITE NAME	Tabhaigh
INSPECTOR	David Bradley	CASE No	20190559

Section 1: Summary

The above site was inspected following a report of increased mortality by the business. During the inspection a number of lethargic fish were observed in all cages on site. Five fish were removed for further examination and subsequent sampling.

Histopathology examination revealed moderate to marked diffuse myoendocarditis with features consistent with cardiomyopathy syndrome (CMS). The causative agent of CMS (PMCV) was confirmed by qPCR. Mild multifactorial gill pathology and some skin lesions which may impact on the osmotic balance, were also present

Due to gill health issues observed on site, samples were screened for amoebic gill disease, salmon gill poxvirus and *Paranucleospora theridion* (syn, *Desmozoon lepeophtherii*). Samples tested positive for all three pathogens.

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 inspected following a report of increased mortality by the business. Records on site showed that mortality for the four weeks before the inspection was 1.17% (8898 fish), 2.69% (6269 fish), 3.95% (8967 fish), and 3.17% (6901 fish) respectively. The company attributed increased mortality to treatment complications arising from gill issues which were being experienced on site, as well as anaemia.

R09

A thermolizer treatment was ongoing during the inspection and around 25 mortalities were removed from the most recently treated pen. There were lethargic and moribund fish observed in all cages and five fish were removed for further examination and subsequent sampling.

Externally all fish had pale and zoned gills, as well as skin lesions. F5 had haemorrhaging on the throat and shortened opercula.

Internal examination showed enlarged spleens in F1, F2, and F5. Petechial haemorrhaging was observed in the pyloric caeca of Fish 3 and bloody ascites were present in the body cavity of F3 and F5. The kidney of F4 was also grey.

Samples

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

Fish number	Pool number	Facility number	Species	Stage	Origin
F1-2	P1	4	Atlantic Salmon (<i>Salmo salar</i>)	3.587 Kg 2018 Q4	Loch Lochy (FS0150)
F3-5	P1	5	Atlantic Salmon (<i>Salmo salar</i>)	3.587 Kg 2018 Q4	Loch Lochy (FS0150)

Results

Bacteriology: Kidney, gill, and lesion material from F1-5 were inoculated onto appropriate media for the isolation of bacteria.

The following bacteria were isolated:

Vibrio sp (A) - F1-4 gill, F2-4 kidney, F1, and F3-5 lesion.

Vibrio sp (B) – F2 kidney, lesion.

The level of growth observed on plates taken from lesion material was significant however the level of growth observed on plates taken from kidney material was low.

Moritella viscosa – F2 gill.

The mixed nature of growth would not suggest it would be the primary source of 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).

Piscine myocarditis virus (PMCV)

Pool Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
P1	15.14	15.52	15.67	15.92	POSITIVE

Salmon gillpox virus (SGVP)

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	18.45	26.65	26.44	26.69	POSITIVE
F2	18.56	27.62	27.61	27.69	POSITIVE
F3	18.40	23.94	23.95	24.04	POSITIVE
F4	18.71	23.70	23.64	23.56	POSITIVE
F5	18.19	26.76	26.86	26.86	POSITIVE

The samples tested negative for infectious haematopoietic necrosis virus (IHNV), infectious pancreatic necrosis virus (IPNV), infectious salmon anaemia virus (ISAV), 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	18.45	32.88	33.75	33.44	POSITIVE
F2	18.56	34.62	35.78	35.02	POSITIVE
F3	18.40	32.96	33.00	32.72	POSITIVE
F4	18.71	33.72	33.05	32.70	POSITIVE
F5	18.19	33.99	33.51	33.52	POSITIVE

Paranucleospora theridion

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	18.45	23.39	23.40	23.57	POSITIVE
F2	18.56	28.26	28.37	28.29	POSITIVE
F3	18.40	28.76	28.81	28.87	POSITIVE
F4	18.71	24.13	24.08	24.24	POSITIVE
F5	18.19	29.38	29.42	29.43	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: Few scattered lamellae displaying aggregates of rod-shaped Gram-negative bacteria (F1). Mild multifocal interlamellar hyperplasia and lamellar fusion (F3) and few single lamellae with epithelial thickness (F3). Occasional basophilic epithelial inclusions (likely epitheliocystis) (F1). Scattered aneurysmal dilation/telangiectasia and lamellar thrombosis. Free blood among gill filament (likely associated with percussive stunning). Generalized epithelial lifting likely associated with post-mortem artefact.

Skin & Muscle: Lesion: Absence of epidermal layer, marked inflammatory cell infiltration at stratum spongiosus of dermis (F3). F5 also displayed with presence of high numbers of rod-shape bacteria and haemorrhage in the hypodermis.

Heart: Moderate to marked diffuse endocarditis and myocardial fibre necrosis at the spongy layer of atrium and ventricle chamber. Mild pericarditis (F1-F5)

Gut and pyloric caeca: Few fibrous adhesions associated with vaccine administration noted in F1. F3 displayed some cell sloughing and Gram-negative bacteria within the gut lumen.

Pancreas: Within normal range.

Liver: Mild diffuse hepatic necrosis (F2).

Kidney: Within normal range.

Spleen: Mild focal splenic necrosis and depletion of white pulp (F2).

Signed:



Fish Health Inspector

Date: 17/12/2019

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Marine Scotland website at www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter

[REDACTED]
Mowi Scotland Ltd
Stob Ban House
Glen Nevis Business Park
Fort William
PH33 6RX
[REDACTED]

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0119	DATE OF VISIT	12/11/2019
SITE No	FS1297	SITE NAME	Tabhaigh
INSPECTOR	[REDACTED]	CASE No	20190559

The above site was inspected, following a report of increased mortality by the business.

All epidemiological units were inspected and samples were taken for diagnostic purposes. A separate report will be issued detailing the results of these tests.

Records

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 found to be 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.

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

- Records for cleaner fish movements offsite were not being recorded. This was discussed with the site representative who agreed to record these in future. No further action.

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

R10

Signed:



Fish Health Inspector

Date: 18/12/2019

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Marine Scotland website at www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter

R10

Marine Laboratory, 375 Victoria Road, Aberdeen, AB11 9DB
Tel - 0131 244 3498 Fax - 01224 295620 Email - ms.fishhealth@gov.scot
Website - www.gov.scot/Topics/marine/science

Case No:	<input type="text" value="2019-0561"/>	Date of visit:	<input type="text" value="13/11/2019"/>			
Time spent on site:	<input type="text" value="9 hours"/>	Main Inspector:	<input type="text" value=""/>			
Site No:	<input type="text" value="FS1291"/>	Site Name:	<input type="text" value="Caolas A Deas"/>			
Business No:	<input type="text" value="FB0119"/>	Business Name:	<input type="text" value="Mowi Scotland Ltd"/>			
Case Types:	1 <input type="text" value="REP"/>	2 <input type="text" value="DIA"/>	3 <input type="text" value=""/>	4 <input type="text" value=""/>	5 <input type="text" value=""/>	6 <input type="text" value=""/>
Water Temp (°C):	<input type="text" value="11.3"/>	Thermometer No:	<input type="text" value="T275"/>	FHI 045 completed	<input type="text" value=""/>	
Observations:	Region:	WI	Water type:	S	CoGP MA	W-5
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:

Mortality disposal usually to Energen Cumbernauld - Fish during mass mortality go to landfill, white shore cockles on Uist.

Vet report from 23rd of October -

Gill issues, positive AGD swabs, so the site was treated with freshwater on October 11th , Hydrolicer 1 November.

Peroxide treatment - 11-14 Oct, thermolicer treatment 28th Oct

Lice figures low throughout the site - treating to keep numbers low.

Report from FVG 07/11/2019 - site reported higher mortalities and bleeding fish bleeding in aesthetic baths. High number of moribund fish seen in cages and were visually examined. Fish examined had severe anaemia, with severely pale gills and organs. No evidence of Haemorrhages in internal organs or obvious systemic infectious disease detected while on site. Clinically normal fish assessed showed multifocal chronic flat AGD lesions and occasional petechial haemorrhages along the filaments. Histology revealed mild to moderate vascular damage and AGD lesions in the gills of the fish sampled. Observed gill damage and bleeding suspected to be of an environmental origin, but exact cause yet to be determined.

Mortality onsite attributed to complications in treatment, arising from gill health issues and anaemia.

Case No: **2019-0561** Site No: **FS1291**
 Date of Visit: **13/11/2019** Inspector(s): **[Redacted]**

Registration/Authorisation Details

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

Site Details

Total No facilities	20		Facilities stocked	20		No facilities inspected	20	
Species	SAL	LUM	WRA					
Age group	2018 q4		MIX		MIX			
No Fish	929,258		65,970		12,692			
Mean Fish Wt	2.56 Kg		MIX		MIX			
Next Fallow Date (Site)	June 2020			Next Input Date (Site)	December 2020			

Recent (last 4 wks) disease problems? **Y** Any escapes (since last visit)? **N**
 If yes, detail: **Anaemia, CMS, HSMI**

Movement Records

1. Movement records available for inspection? **Y**
 2. Date of last inspection: **07/11/2017**
 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? **Ensiled - on site**
 If other detail: **[Redacted]**
 3. Mortality records complete and correctly entered? **Y**
 4. Recent mortality (last 4 wks): **14/10 - 6185 (0.59%) 21/10 - 9993 (0.97%) 28/10 57,089 (5.5%) 04/11 - 43,499 (4.45%)**
 5. Evidence of recent increased/atypical mortalities? **Y**
 If yes, facility nos/no mortality per facility/no stock per facility/reason: **[Redacted]**

Post treatment losses, as well as anaemia throughout the site.
 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, add MRT case and enter on mortality events sheet. **Y**

1. Recent treatments (last 4 wks)?	<input type="checkbox"/>	Y
If yes, detail:	H2O2, 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"/>
2. Has the manner and frequency of mortality removal, recording and safe disposal been considered?	<input type="checkbox"/>
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"/>
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"/>
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"/>
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"/>
7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals held on site?	<input type="checkbox"/>
8. Have the biosecurity procedures been adequately implemented on site?	<input type="checkbox"/>
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"/>	Y
If yes, detail (if not detailed under recent disease problems).	See additional comments	

Records checked between: 07/11/2017 - 13/11/2019

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	2.56 Kg	2.56 Kg	2.56 Kg	2.56 Kg	2.56 Kg	2.56 Kg						
Sex	N/A	N/A	N/A	N/A	N/A	N/A						
Water Type	SW	SW	SW	SW	SW	SW						
Stock Details		Loch Ailort	Loch Ailort	Loch Ailort	Loch Ailort	Loch Ailort	Loch Ailort					
	Stock Origin											
Facility No	14	14	14	17	17							

Case no: 2019-0561

Site No: FS1291

Method of killing: Percussive

Date of visit: 13/11/2019

Inspector(s):

Sheet Relevant: Y

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

Fish Number		F1	F2	F3	F4	F5						
Time sampled after death (if > 45 minutes)												
External Signs												
Behaviour	Moribund	S	S	S	M	S						
	Lethargic	S	S	S	S	S						
	Hanging vertical											
	Spiralling											
	Flashing											
	Loss of equilibrium											
Body	Dark											
	Distended abdomen											
	Anorexic											
	Scale Oedema											
Opercula	Shortened											
	Flared											
Haemorrhaging	Throat					M						
	Ventrum											
	Base of fins				S	M						
	Elsewhere											
Eyes	Exophthalmic											
	Enophthalmic (sunken)											
	Cataract											
	Haemorrhagic											
Gills	Pale		M	M	M	M						
	Zoned	W		M	M	M						
	Necrotic				W							
Lesions	Flank											
	Elsewhere											
Vent	Inflamed											
	Trailing faeces											
Lice Load	Estimate numbers		0	0	0	0	0					
Internal Signs												
Ascites	Clear		W									
	Bloody					W						
Oedema	In tissues											
Heart	Pale/anaemic		M	M	M	M						
	Granulomas											
	Deformed											
Liver	Petechial haem											
	Gross haem											
	Tissue breakdown											
	Enlarged											
	Colour number(s)		5	2	2	5	2					
	Granulomas											
	Lesions											
Pyloric caeca	Petechial haem		S									
	Tubules mauve											
	Lack of fat											
Spleen	Enlarged	M	W	S	S	M						
	Granulomas											
Gut	No food present											
	Yellow pseudo-faeces	S				S						
	External haem											
	Internal haem											
Body wall	Haemorrhaging											
Swim bladder	Haemorrhaging											
	Fluid filled											
Kidney	Swollen											
	Grey				W							
	Granular											
	Liquefied											
General	Parasites present											
	Anaemia											

Additional comments:

Site No: FS1291

Case No: 2019-0561

Nature of non-compliance:

Action taken (FHI):

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



Case No: 2019-0561 Date of visit: 13/11/2019
 Site No: FS1291 Inspector: ██████████

Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp
VSPE	1/5	28/11/2019	████	28/11/2019		24/12/2019	████	████
AGDQ	5/5	28/11/2019	████	28/11/2019		24/12/2019	████	████
PNST	5/5	28/11/2019	████	28/11/2019		24/12/2019	████	████
SPVP	5/5	28/11/2019	████	28/11/2019		24/12/2019	████	████
IHNP	0/1	28/11/2019	████	28/11/2019		24/12/2019	████	████
IPNM	0/1	28/11/2019	████	28/11/2019		24/12/2019	████	████
ISAQ	0/1	28/11/2019	████	28/11/2019		24/12/2019	████	████
SALP	0/1	28/11/2019	████	28/11/2019		24/12/2019	████	████
AMGD	4/5	13/12/2019	████	13/12/2019		24/12/2019	████	████
CGDH	5/5	13/12/2019	████	13/12/2019		24/12/2019	████	████
EPIT	3/5	13/12/2019	████	13/12/2019		24/12/2019	████	████
GPAT	5/5	13/12/2019	████	13/12/2019		24/12/2019	████	████

Report Summary			
Case Type	Date	Insp	2 nd Insp
DIAG, REP	24/12/2019	████	████



Note - attachments file must be saved to ARC folder as PDF with correct name format e.g. 2012-0123-attach or 2012-0123-attach2 etc.



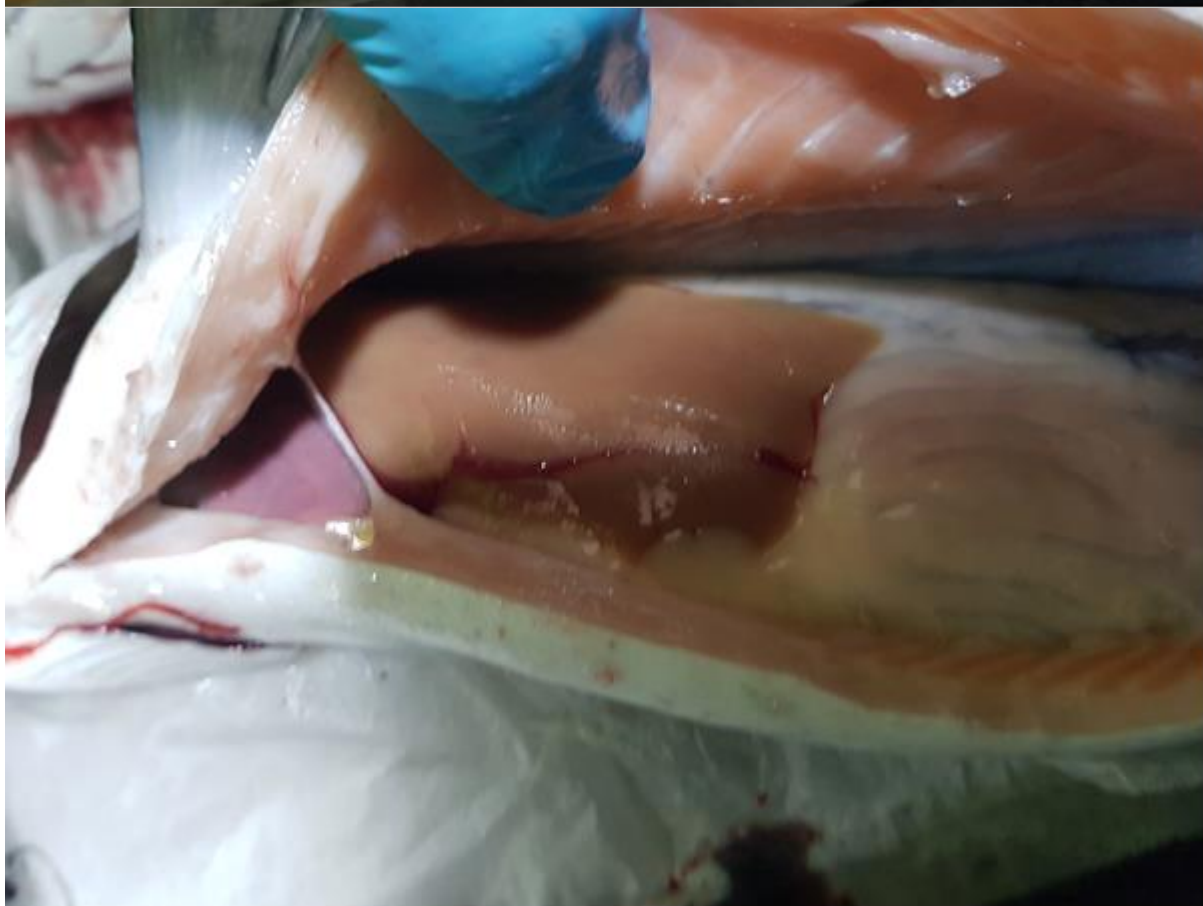
Fish 1





Fish 2





Fish 3





Fish 4







Fish 5





[REDACTED]
Mowi Scotland Ltd
Stob Ban House
Glen Nevis Business Park
Fort William
PH33 6RX
[REDACTED]

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0119	DATE OF VISIT	13/11/2019
SITE No	FS1291	SITE NAME	Caolas A Deas
INSPECTOR	[REDACTED]	CASE No	20190561

Section 1: Summary

Caolas A Deas was inspected following a report of increased mortality by the business. During the inspection a number of moribund fish were observed in all cages on site. Five fish were removed for further examination and subsequent sampling.

Histopathology examination revealed multifactorial gill pathology which included presence of amoebic cells suggestive of amoebic gill disease (AGD), epitheliocystis, some vascular damage and some Gram-negative bacteria.

Due to gill health issues observed on site, samples were screened for amoebic gill disease, salmon gill poxvirus and *Paranucleospora theridion* (syn, *Desmozoon lepeophtherii*). Samples tested positive for all three pathogens.

Vibrio sp was identified from gill material taken from one fish. The level and purity of which would suggest it may be implicated in 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 inspected following a report of increased mortality by the business. Records on site showed that mortality for the 4 weeks before the inspection was 0.59% (6185 fish), 0.97% (9993 fish), 5.5% (57,089 fish), and 4.45% (43,499 fish) respectively. The company attributed increased mortality to treatment complications arising from gill issues which were being experienced on site, as well as anaemia.

R09

Externally F2-F5 had pale gills, the gills of F1, F3-F5 were zoned and the gills of F4 were also necrotic. There was haemorrhaging at the base of the fins and the throat of F5 and the base of the fins of F4.

Internal examination showed enlarged spleens in all fish. The hearts of F2-F5 were pale and the kidney of F4 was grey. Pseudo-faeces were present in the gut of F1 and F5 and there was clear ascites in F2 and bloody ascites in F5.

Samples

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

Fish number	Pool number	Facility number	Species	Stage	Origin
F1-2	P1	14	Atlantic Salmon (<i>Salmo salar</i>)	2.26 Kg 2018 Q4	Loch Ailort (FS1269)
F3-5	P1	17	Atlantic Salmon (<i>Salmo salar</i>)	2.26 Kg 2018 Q4	Loch Ailort (FS1269)

Results

Bacteriology: Kidney and gill material from 5 fish was inoculated onto appropriate media for the isolation of bacteria.

The following bacteria were isolated from F3:

Vibrio sp was identified from gill material, the level and purity of which would suggest it may be implicated in morbidity.

No significant growth was observed from the gill and kidney material taken from the remaining fish.

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

Salmon gill poxvirus (SGVP)

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	21.62	35.17	34.66	34.76	POSITIVE
F2	21.71	31.26	31.29	31.27	POSITIVE
F3	21.37	30.70	30.71	30.65	POSITIVE
F4	21.60	33.01	32.80	33.02	POSITIVE
F5	21.33	30.17	30.09	29.97	POSITIVE

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

Parasitology: Gill 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	21.62	33.10	33.27	33.29	POSITIVE
F2	21.71	30.25	30.33	30.30	POSITIVE
F3	21.37	29.33	29.48	29.38	POSITIVE
F4	21.60	29.53	29.66	29.65	POSITIVE
F5	21.33	30.06	30.21	30.09	POSITIVE

Paranucleospora theridion

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	21.62	32.27	32.14	32.38	POSITIVE
F2	21.71	28.65	28.76	28.68	POSITIVE
F3	21.37	28.43	28.40	28.42	POSITIVE
F4	21.60	33.07	33.16	33.00	POSITIVE
F5	21.33	29.08	29.06	29.01	POSITIVE

Histology: Tissue samples of gill, skin and skeletal muscle, heart, pyloric caeca, pancreas, hind gut, liver, spleen, and kidney were taken from 5 fish. The tissue samples were fixed in 10% neutral buffered formalin.

Histopathological examination revealed the following:

Gill: Mild multifocal interlamellar hyperplasia and lamellar fusion, some lacunae filled with cell debris and remains of amoebic cells (F1, F2, F3, F5), spongiosis (F3). Irregular lamellar epithelial surface (all fish), several single lamellae exhibiting epithelial thickness and lamellar thrombosis, lamellar ballooning degenerative cells containing pigmented material and some pustules on the hyperplastic lesions (F3), some hypertrophy and hyperplasia of chloride cells (F2). Few basophilic epithelial inclusions (likely epitheliocystis) (F2, F3, F5) and several amoebic cells resembling *Neoparamoeba perurans*, some amoebic cells were associated with epithelial tissue (F3, F5). F3 also displayed aggregates of Gram-negative bacteria associated with cell debris. Scattered aneurysmal dilation/telangiectasia. All fish exhibited free blood among gill filaments, likely associated with percussive stunning.

Skin & Muscle: Within normal range.

Heart: Small focal area of inflammatory cell infiltration and degeneration of the adjacent myocardial fibre (F1), small thrombi in the ventricle chamber (F3).

Gut and pyloric caeca: Within normal range.

Pancreas: Within normal range.

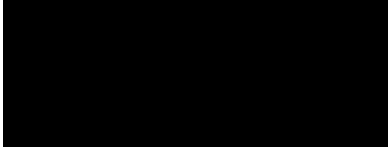
Liver: Mild multifocal hepatic necrosis (F2, F4, F5), mild diffuse hepatocyte vacuolations (F3).

Kidney: Within normal range.

R09

Spleen: Within normal range.

Signed:



Fish Health Inspector

Date: 23/12/2019

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Marine Scotland website at www.gov.scot/Topics/marine/Fish-Shellfish/FHI/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

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:

Certificate INTRA.GB.2019.0031608 (MD19/139) for 16 bags to Carlingsford Lough (FHA-184) issued.

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

Total No facilities	<input type="text" value="10 long lines"/>	Facilities stocked	<input type="text" value="8 long line"/>	No facilities inspected	<input type="text" value="0 lines"/>
Species	<input type="text" value="MED"/>			<input type="text" value="1"/>	
Age group	<input type="text" value="2018"/>				
No Fish	<input type="text" value="100 tonnes"/>				
Mean Fish Wt	<input type="text" value="35mm"/>				
Next Fallow Date (Site)	<input type="text" value="December 2019"/>	Next Input Date (Site)	<input type="text" value="wild spat"/>		

Recent (last 4 wks) disease problems? Any escapes (since last visit)?
 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):
- 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, add MRT case and enter on mortality events sheet.

1. Recent treatments (last 4 wks)?	
If yes, detail:	
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)?	
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 <i>increased (unexplained)</i> 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 <i>how</i> and <i>when</i> 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?	N
2. If yes, are results available for inspection?	
3. Any significant results?	
If yes, detail (if not detailed under recent disease problems).	

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Records checked between: 31/11/19 -5/11/19

██████████
Loch Striven Mussel Farms Ltd
The Point Ardtaraig Estate
Loch Striven
Argyll
PA23 8RG
██████████

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	SB0530	DATE OF VISIT	05/11/2019
SITE No	SS0759	SITE NAME	Fearna
INSPECTOR	██████████	CASE No	20190596

Inspection for placing on the market in the EU

In accordance with the Trade in Animals and Related Products (Scotland) Regulations 2012 and European Community Council Directive 2006/88/EC, the above site was visited and a consignment of mussel spat for placing on the market in Ireland was inspected. A health certificate was issued which must travel with the consignment to the destination. The official authority in the importing country has been notified.

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: 14/11/2019

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Marine Scotland website at www.gov.scot/Topics/marine/Fish-Shellfish/FHI/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: HI Water type: S 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 is stocked with natural spat and also seed that was received from Garvan SS0801 for ongrowing.

Little fouling on the lines. Some sea squirts and sea stars were observed. Site manager reported that sea stars are primarily responsible for any empty shells observed on the droppers.

No harvests yet as site only registered last year (2018). Site manager expecting to harvest in summer 2020.

No movements off site for relaying. Movements off for harvests only.

Inspection and paperwork completed by [REDACTED] under [REDACTED] supervision.

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

Total No facilities	/ longlines	Facilities stocked	/	No facilities inspected	/
Species	MED	MED			
Age group	2018	2019			
No Fish	3/7 lines	4/7 lines			
Mean Fish Wt	105 tonnes	5-10 tonnes			
Next Fallow Date (Site)	No plan.		Next Input Date (Site)	Natural settlement.	

Recent (last 4 wks) disease problems? Any escapes (since last visit)?
 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):
 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, add MRT case and enter on mortality events sheet.

1. Recent treatments (last 4 wks)?	
If yes, detail:	
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)?	
If other, detail:	
6. Are medicines stored appropriately?	

Biosecurity Records

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

Results of Surveillance

1. Has any animal health surveillance been carried out by, or on behalf of, the business?		N
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: 12/06/2018 - 11/11/19

Case Number:	2019-0626	Site No:	SS0918
Date of Visit	11/11/2019	Inspector:	
Number of Susceptible species on site			
If no susceptible species present = LOW risk			
If susceptible species present, score for each pathogen			
		No	Yes
Susceptible to Bonamia ostrea (OED)		0	25
Susceptible to Marteilia refringens (OED, MED)		0	3
Susceptible to OshV (CGI)		0	3
Sites within a tidal excursion			
		1	2-5
			>6
Site contacts	Number of sites holding susceptible species within a tidal excursion	0	2
			10
			0
Live shellfish movements			
		0	1-2
			>3
Movements on	Frequency of movements on from equivalent MS	0	5
	Frequency of movements on from equivalent zone or compartment including third country	0	10
	Number of suppliers	0	5
			10
			0
Movements off	Frequency of movements off <u>within</u> MSS Management Areas	0	1
	Frequency of movements off <u>outwith</u> MSS Management Areas	0	3
	Number of destinations	0	3
			6
			0
Management practices			
		None	Secure (effluent treatment)
			Unsecure (no effluent treatment)
Water contacts with depuration facilities	Depuration of stock from own sites within MSS management area	0	1
	Depuration of stock from other businesses sites within MSS management area	0	2
	Depuration of stock from sites outwith MSS management area	0	4
			8
			0
Biosecurity			
	Number of sites	1	2 or 3
			≥ 4
Contacts with other sites	Sites operating from single shorebase	0	1
	Sites sharing staff and equipment	0	1
		Yes	No
	Disinfection of equipment between sites, use of footbaths etc	0	2
			0
Total Risk			
5			
LOW			

██████████
Fass Fern Mussels
Garvan Glen
Garvan
Fort William
PH33 7AW
████████████████████

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	SB0406	DATE OF VISIT	11/11/2019
SITE No	SS0918	SITE NAME	Sron na Saobhaidh
INSPECTOR	████████████████████	CASE No	20190626

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

The above site was inspected, in accordance with the Aquatic Animal Health (Scotland) Regulations 2009, and to meet the requirements of European Community Council Directive 2006/88/EC.

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

Records

The surveillance frequency category of the site was assessed as low. An inspection under the Aquatic Animal Health (Scotland) Regulations 2009 will be conducted every fourth 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.

No mortality had been observed on site since the last inspection by Marine Scotland.

No animal health surveillance had been carried out on behalf of the business and/or Marine Scotland since the last Marine Scotland Inspection.

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

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

Signed:



Date: 18/11/2019

Fish Health Inspector

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Marine Scotland website at www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter

Case No:	<input type="text" value="2019-0648"/>	Date of visit:	<input type="text" value="12/11/2019"/>			
Time spent on site:	<input type="text" value="4.5hrs"/>	Main Inspector:	<input type="text" value=""/>			
Site No:	<input type="text" value="FS0964"/>	Site Name:	<input type="text" value="Bloody Bay"/>			
Business No:	<input type="text" value="FB0125"/>	Business Name:	<input type="text" value="Scottish Sea Farms 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="12"/>	Thermometer No:	<input type="text" value="T152"/>	FHI 045 completed	<input type="text" value="N"/>	
Observations:	Region:	ST	Water type:	S	CoGP MA	M-34
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:

Lumpfish came onto site from [REDACTED], wrasse on site are wild-caught. Wrasse stocked at 5%, lumpfish stocked at 10%.

Salmon came onto site in November 2018 from [REDACTED] and [REDACTED]

Health report from October 2019 gave a positive result for PRV, no clinical signs of the disease observed in stock.

Lumpfish input at start of cycle 35,750, wrasse input was 27,517. Total cleanerfish mortality since input is 9,168 (14.5%).

Mortalities increased to 2.86% in Wk40 and 6.49% in Wk41 2019, attributed to post-treatment losses. Mortalities dropped below the reporting threshold the following week (0.15%) and remained below 1% since.

Average adult female leps were above 0.5 in wk12 and wk19 2019, but dropped below the CoGP suggested criteria for treatment levels the following weeks. Since wk19, adult females have been below CoGP suggested criteria for treatment levels. No therapeutic treatments administered as cleanerfish on site were able to reduce sea lice numbers.

Around 10 lumpfish and 2 salmon mortalities were observed across the site during the inspection. As these were not fresh dead, no samples were taken. The lumpfish mortalities were attributed to a storm event that occurred on Monday 11th November 2019.

Fish sitting deep in the water made it difficult to observe them, although demonstrated a good feeding response.

Fish sampled for VMD appeared healthy.

Inspection, sampling and paperwork completed by [REDACTED] under [REDACTED] supervision.

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

Total No facilities	<input type="text" value="9"/>		Facilities stocked	<input type="text" value="9"/>		No facilities inspected	<input type="text" value="9"/>	
Species	<input type="text" value="SAL"/>	<input type="text" value="WRA"/>	<input type="text" value="LUM"/>					
Age group	<input type="text" value="2018 Q4"/>	<input type="text" value="Wildcaught"/>	<input type="text" value="2019"/>					
No Fish	<input type="text" value="255,000"/>	<input type="text" value="~12,750"/>	<input type="text" value="~ 25,000"/>					
Mean Fish Wt	<input type="text" value="3kgs"/>	<input type="text" value="Mixed"/>	<input type="text" value="70g"/>					
Next Fallow Date (Site)	<input type="text" value="March 2020"/>			Next Input Date (Site)	<input type="text" value="November 2020"/>			

Recent (last 4 wks) disease problems? Any escapes (since last visit)?
 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):
 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, add MRT case and enter on mortality events sheet.

Treatments and Medicines Records

1. Recent treatments (last 4 wks)?	<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"/>	Y

AGD diagnosed in August 2019. Mortalities attributed to gill issues has reduced since. PCR conducted in October 2019 came back positive for PRV, however there have been no clinical signs of the disease.

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

Health report date: 14/10/19

Records checked between:

10/04/17 - 12/11/19

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	3kgs	3kgs	3kgs	3kgs								
Sex	N/A	N/A	N/A	N/A								
Water Type	SW	SW	SW	SW								
Stock Details												
Stock Origin												
Facility No	2	4	6	8								

Case Number:	2019-0648	Site No:	FS0964	Insp:		
Date of Visit	12/11/2019	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	0
Movements off	Frequency of movements off	0	3	6	10	10
	Number of destinations	0	3	6	10	3
Exposure via water	Site contacts	0	1-5	6-10		
Water contacts with other farms (holding species susceptible to same diseases)	Farm is protected (secure water supply through disinfection or borehole)	0				
	Farm is on-line or in a coastal zone with category I farms upstream or within 1 tidal excursion	1	2	4		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				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				0
	No	3				
Platform access to cages	Yes	0				0
	No	2				
Total Rank					17	MEDIUM

Case No: **2019-0648**

Site No: **FS0964**

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 can these be deployed in a reasonable period of time?
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 2 or above (from w/b 10/6/19) during the period that records are inspected?
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 sea lice?
15. Is there a site specific written lice management procedure with waypoints describing set actions to deal with recognised scenarios during the escalation of a sea lice infestation?
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)

Tension nets, top nets, MML

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: 2019-0648

Site No: FS0964

Date of Visit: 12/11/2019

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?

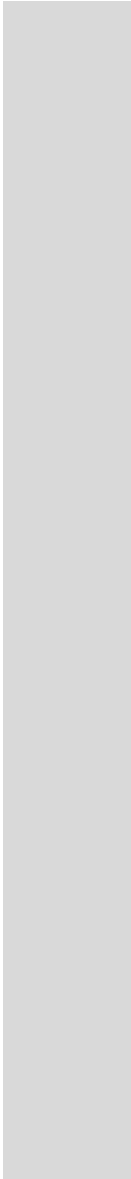
Point of Compliance for Farm Management Agreements Only

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?



██████████
Scottish Sea Farms Ltd
Laurel House
Laurelhill Business Park
Polmaise Road Stirling
FK7 9JQ
██

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0125	DATE OF VISIT	12/11/2019
SITE No	FS0964	SITE NAME	Bloody Bay
INSPECTOR	██	CASE No	20190648

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

The above site was inspected, in accordance with the Aquatic Animal Health (Scotland) Regulations 2009, and to meet the requirements of European Community Council Directive 2006/88/EC.

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.

Mortality levels had exceeded the reporting criteria since the last inspection and had not been reported to the Fish Health Inspectorate. I would like to remind you of the industry agreement in relation to mortality reporting as detailed in A Code of Good Practice for Scottish Finfish Aquaculture.

R25

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 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: 18/11/2019

Fish Health Inspector

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Marine Scotland website at www.gov.scot/Topics/marine/Fish-Shellfish/FHI/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-37

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:

Lumpfish came on from Otter Ferry FS0843.

Hydrolicer was on site w/b 21/10/19 which brought sea lice numbers down to below the CoGP suggested criteria for treatment. A further hydrolicer treatment is planned for the w/b 18/11/19 to further reduce sea lice numbers.

No movements onto or off of site since last inspection.

Inspection conducted as initial inspection (03/10/19) could not be carried out as water temperature was above 14 degrees.

Inspection and paperwork completed by [REDACTED] under [REDACTED] supervision.

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

Total No facilities	<input type="text" value="8"/>	Facilities stocked	<input type="text" value="4"/>	No facilities inspected	<input type="text" value="8"/>
Species	<input type="text" value="SAL LUM"/>				
Age group	<input type="text" value="2018 S0"/>	<input type="text" value="2019"/>			
No Fish	<input type="text" value="209,037"/>	<input type="text" value="4,898"/>			
Mean Fish Wt	<input type="text" value="2.7kgs"/>	<input type="text" value="60g"/>			
Next Fallow Date (Site)	<input type="text" value="May 2020"/>		Next Input Date (Site)	<input type="text" value="Site to be made inactive after cycle."/>	

Recent (last 4 wks) disease problems? Any escapes (since last visit)?
 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):
 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, add MRT case and enter on mortality events sheet.

1. Recent treatments (last 4 wks)?	<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"/>	Y
If yes, detail (if not detailed under recent disease problems).	AGD confirmed by PCR, although not causing significant mortalities.	

Records checked between:

Case Number:	2019-0649	Site No:	FS0593	Insp:		
Date of Visit	13/11/2019	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	0
Movements off	Frequency of movements off	0	3	6	10	10
	Number of destinations	0	3	6	10	3
Exposure via water	Site contacts	0	1-5	6-10		
Water contacts with other farms (holding species susceptible to same diseases)	Farm is protected (secure water supply through disinfection or borehole)	0				
	Farm is on-line or in a coastal zone with category I farms upstream or within 1 tidal excursion	1	2	4		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		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		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					22	MEDIUM

Case No: **2019-0649**

Site No: **FS0593**

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 can these be deployed in a reasonable period of time?
- 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 2 or above (from w/b 10/6/19) during the period that records are inspected?
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 sea lice?
- 15. Is there a site specific written lice management procedure with waypoints describing set actions to deal with recognised scenarios during the escalation of a sea lice infestation?
- 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)

Tension nets, ADD, top nets, MML

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: 2019-0649

Site No: FS0593

Date of Visit: 13/11/2019

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?

[REDACTED]
The Scottish Salmon Company
1 Smithy Lane
Lochgilphead
Argyll
PA31 8TA
[REDACTED]

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0169	DATE OF VISIT	13/11/2019
SITE No	FS0593	SITE NAME	Inch Kenneth
INSPECTOR	[REDACTED]	CASE No	20190649

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

The above site was inspected, in accordance with the Aquatic Animal Health (Scotland) Regulations 2009, and to meet the requirements of European Community Council Directive 2006/88/EC.

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.

R25

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, 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: 18/11/2019

Fish Health Inspector

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Marine Scotland website at www.gov.scot/Topics/marine/Fish-Shellfish/FHI/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-37

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:

Lumpfish on from Otter Ferry FS0843.

In cages 3,4 and 8, a number of fish were observed which appeared lethargic. However, they were sitting at around 2m in the water and when attempted to be caught with a hand net, actively swam away.

Inspection conducted after initial inspection (03/10/19) could not be carried out as water temperature was above 14 degrees.

Inspection and paperwork completed by [REDACTED] under [REDACTED] supervision.

Case No: **2019-0650** Site No: **FS0839**
 Date of Visit: **13/11/2019** Inspector(s): **[Redacted]**

Registration/Authorisation Details

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

Site Details

Total No facilities	12	Facilities stocked	12	No facilities inspected	12
Species	SAL LUM				
Age group	2018 S0	2019			
No Fish	641,854	78,850			
Mean Fish Wt	2.7kgs	Mix			
Next Fallow Date (Site)	May 2020		Next Input Date (Site)	September 2020	

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: **03/10/2019**
 3. Are records complete and correctly entered? **Y**
 4. Are movement records available for dead fish and waste? **Y**
 5. Are records complete and correctly entered? **Y**
 6. Are health certificates for introductions (outwith GB) available? **N/A**

Transport Records

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

Mortality Records

1. Mortality records available for inspection? **Y**
 2. How are mortalities disposed of? **Whole fish - Dundas Chemicals**
 If other detail: **Skipped on site then collected by Billy Bowie and taken to Dundas.**
 3. Mortality records complete and correctly entered? **Y**
 4. Recent mortality (last 4 wks): **Wk40:1,666 (0.24%), Wk41: 2,751 (0.40%), Wk42: 3,566 (0.52%), Wk43: 2,023 (0.29%) across site since last inspection.**
 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, add MRT case and enter on mortality events sheet. **N/A**

1. Recent treatments (last 4 wks)?	<input type="checkbox"/>	Y
If yes, detail:	T.M.S., Salmosan	
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"/>	Y
If yes, detail (if not detailed under recent disease problems).	AGD confirmed by PCR, although not causing significant mortalities.	

Records checked between: 03/10/19 - 13/11/19

Case Number:	2019-0650	Site No:	FS0839	Insp:		
Date of Visit	13/11/2019	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	0
Movements off	Frequency of movements off	0	3	6	10	10
	Number of destinations	0	3	6	10	3
Exposure via water	Site contacts	0	1-5	6-10		
Water contacts with other farms (holding species susceptible to same diseases)	Farm is protected (secure water supply through disinfection or borehole)	0				
	Farm is on-line or in a coastal zone with category I farms upstream or within 1 tidal excursion	1	2	4		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		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		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					22	MEDIUM

Case No: **2019-0650**

Site No: **FS0839**

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 can these be deployed in a reasonable period of time?
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 2 or above (from w/b 10/6/19) during the period that records are inspected?
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 sea lice?
15. Is there a site specific written lice management procedure with waypoints describing set actions to deal with recognised scenarios during the escalation of a sea lice infestation?
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)

Tension nets, top nets, ADD, MML

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: 2019-0650

Site No: FS0839

Date of Visit: 13/11/2019

Inspector: **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?

██████████
The Scottish Salmon Company
1 Smithy Lane
Lochgilphead
Argyll
PA31 8TA
██

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0169	DATE OF VISIT	13/11/2019
SITE No	FS0839	SITE NAME	Geasgill
INSPECTOR	██	CASE No	20190650

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

The above site was inspected, in accordance with the Aquatic Animal Health (Scotland) Regulations 2009, and to meet the requirements of European Community Council Directive 2006/88/EC.

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.

R25

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, 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: 18/11/2019

Fish Health Inspector

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Marine Scotland website at www.gov.scot/Topics/marine/Fish-Shellfish/FHI/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 None

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:

Biomass currently 2500 - looking to increase to 3500

Input Loch Arkaig 23/4/19 - 1/5/19

Ensiled material collected by Fergusons Transport in a tanker on a boat - load and unload at Oban,

Sea temp above 14 until 9th October

Site mort peak 2861 morts on 6th October attributed to PD, 6653 morts 22 oct, 8247 morts on 6th Nov - no morts carried out for 4 days prior. Morts currently sitting at approximately 1.3%/ site/wk

Site inspection; Weather very poor. Only able to walk around one pen. Other pens observed from boat.
21 October Peroxide treatment in cages 4 and 12 for AGD

limited weight on flight so site thermometer used.

lice levels currently 0.59 average lep female gravid, 0.03 lep adult female 0.13 chalimus

Treatment; AMX for caligus in July/August. Extended fresh water treatments as soon as (over due) for gills and lice .

SAV1 PD - on site

Seal observed in pen 3. Site manager arranged for divers to visit the site the next day when weather forecast is better. Site manager asked to complete an escapes or potential escapes notification form.

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

Total No facilities	<input type="text" value="12"/>	Facilities stocked	<input type="text" value="8"/>	No facilities inspected	<input type="text" value="12"/>
Species	<input type="text" value="Sal"/>				
Age group	<input type="text" value="2019 Q2"/>				
No Fish	<input type="text" value="1,128,184"/>				
Mean Fish Wt	<input type="text" value="1.29kg"/>				
Next Fallow Date (Site)	<input type="text" value="Summer 2020"/>	Next Input Date (Site)	<input type="text" value="2021 Q2"/>		

Recent (last 4 wks) disease problems? Any escapes (since last visit)?
 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):
- 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, add MRT case and enter on mortality events sheet.

1. Recent treatments (last 4 wks)?	<input type="checkbox"/>	Y
If yes, detail:	H2O2, 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)?	TMS	
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"/>	Y
If yes, detail (if not detailed under recent disease problems).		

AGD and PD

Records checked between: 20/10/15- 7/11/19

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	1-3	4-6										
Pool Group												
Species	SAL	SAL										
Average weight	1.2000	1.2000										
Sex												
Water Type	SW	SW										
Stock Details												
		Loch Arkaig	Loch Arkaig									
Stock Origin												
Facility No	12	4										

Case Number:	2019-0664	Site No:	FS1296	Insp:		
Date of Visit	07/11/2019	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		1
	Farm is on-line or in a coastal zone with category III farms upstream or within 1 tidal excursion	1	3	6		
	Farm is on-line or in a coastal zone with category V farms upstream or within 1 tidal excursion	1	4	8		
Management practices		None	Secure	Unsecure		
Water contacts with processors	Any processing plant discharging into adjacent waters	0	1	2		0
On farm processing within the rules of the directive	No on farm processing	0				0
	Processing own fish (re-cycling risk)	1				
	Processing fish from MS of equivalent status	2				
	Processing fish from zone or compartment of equivalent status	4				
	Processing fish from Category III farm	8				
	Processing fish from Category V farm	10				
Disposal of fish and fish by-products	Site's own waste only processed.	0				0
	Common processes with other farms	3				
	Collection point for waste from other farms	5				
Use of unpasteurised feeds	No feeding of unpasteurised feed	0				0
	Feeding unpasteurised feed	5				
Biosecurity	Number of sites	1	2 or 3	≥ 4		
Contacts with other sites	Sites operating from single shorebase	0	1	2		0
	Sites sharing staff and equipment	0	1	2		
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					14	LOW

Case No: **2019-0664**

Site No: **FS1296**

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 can these be deployed in a reasonable period of time?
- 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 2 or above (from w/b 10/6/19) during the period that records are inspected?
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 sea lice?
- 15. Is there a site specific written lice management procedure with waypoints describing set actions to deal with recognised scenarios during the escalation of a sea lice infestation?
- 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, seal blinds, looking to get ADD on site.

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)

Seal observed in one pen. Informed to complete notification form and to arrange divers to inspect net.

Case No: 2019-0664

Site No: FS1296

Date of Visit: 07/11/2019

Inspector: [Redacted]

Point of Compliance

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

N

If N, no further questions require completion.

Points of Compliance for Both Farm Management Agreements and Statements

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

[Redacted]

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

[Redacted]

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

[Redacted]

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

[Redacted]

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

[Redacted]

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

[Redacted]

Arrangements for Fish Health Management

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

[Redacted]

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

[Redacted]

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

[Redacted]

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

[Redacted]

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

[Redacted]

Arrangements for The Management of Sea Lice

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

[Redacted]

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

[Redacted]

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

[Redacted]

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

[Redacted]

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

[Redacted]

Live Fish Movements

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

[Redacted]

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

[Redacted]

Harvesting

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

Fallowing

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

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

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

Point of Compliance for Farm Management Agreements Only

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

Management and operation

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

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

Site No: FS1296
Case No: 2019-0664
Nature of non-compliance:
Action taken (FHI):
Non-compliance relevant to (delete): VirologyMolGen/Bacteriology/Histology/Parasitology



██████████
Mowi Scotland Ltd
Stob Ban House
Glen Nevis Business Park
Fort William
PH33 6RX
██████████

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0119	DATE OF VISIT	07/11/2019
SITE No	FS1296	SITE NAME	Colonsay
INSPECTOR	██████████	CASE No	20190664

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

The above site was inspected, in accordance with the Aquatic Animal Health (Scotland) Regulations 2009, and to meet the requirements of European Community Council Directive 2006/88/EC.

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

Records

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

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

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

Mortality records were inspected and found to be adequately maintained.

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

R25

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 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 and fish farm management agreements and statements.

During the inspection of the site a seal was observed in pen 3. The site manager arranged for divers to visit the site the following day, when weather conditions permitted, to inspect the pen net for holes. He was told to complete the initial notification form; "circumstance which caused or might have caused an escape of fish from a fish farm site". This form has now been submitted.

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

Signed:



Date:29/11/2019

Fish Health Inspector

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Marine Scotland website at www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter