

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: TA Water type: F CoGP MA

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

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

Additional Case Information:

4 tanks and 4 troughs stocked on farm - ova from Denmark. Also take ova from NI. Most fish are moved off site to Frandy at about 1.5g. Also sent a batch to Westmill in April 2019.

Water is spring fed and very clear. Have increased flow rate to ensure everything is kept very clean to combat gut fungus which has been observed in younger stock during health managers weekly tests. Fungus observed last week and a pyceze flush treatment was administered to younger stock, causing increased mortality levels to drop back down within days.

Monthly health reports from health manager stated that last few batches of ova through had very good survival of 98% from ova to hatch, with very low levels of deformities being observed.

No moribund or dead observed on site.

Hot weather last year didn't cause any major problems - only one batch was moved off site to Frandy slightly earlier than planned due to decrease in water.

Case No: **2019-0319** Site No: **FS0552**
 Date of Visit: **10/07/2019** Inspector(s): **[redacted]**

Registration/Authorisation Details

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

Site Details

Total No facilities	17	Facilities stocked	8	No facilities inspected	17
Species	rtr				
Age group	fry				
No Fish	80k	88k			
Mean Fish Wt	0.085 g	0.6 g			
Next Fallow Date (Site)	n/a		Next Input Date (Site)	August 2019	

Recent (last 4 wks) disease problems? **Y** Any escapes (since last visit)? **N**
 If yes, detail: **currently gut fungus in younger batch, fungus also observed externally in this batch last week**

Movement Records

- 1. Movement records available for inspection? **Y**
- 2. Date of last inspection: **17/01/18 DCB**
- 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? **Y**

Transport Records

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

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): **morts/trough/week are 200-300 post hatch but fall quickly to under 20/trough/week**
- 5. Evidence of recent increased/atypical mortalities? **Y**
- If yes, facility nos/no mortality per facility/no stock per facility/reason: **Last week fungus observed in younger batch - 1000/trough/week in all 4 troughs stocked with ~23k - treated with pyceze flush and mortality levels fell immediately.**
- 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:	Pyceze	
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)?	Pyceze	
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 increased (unexplained) 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 how and when that will be notified to Scottish Ministers?	<input type="checkbox"/>	Y
5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or higher health status, certification if required)?	<input type="checkbox"/>	Y
6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minimise transmission of disease been covered (movement of staff, visitors, equipment, live or dead fish etc.)?	<input type="checkbox"/>	Y
7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals held on site?	<input type="checkbox"/>	Y
8. Have the biosecurity procedures been adequately implemented on site?	<input type="checkbox"/>	Y
If no, detail:		

Results of Surveillance

1. Has any animal health surveillance been carried out by, or on behalf of, the business?	<input type="checkbox"/>	Y
2. If yes, are results available for inspection?	<input type="checkbox"/>	Y
3. Any significant results?	<input type="checkbox"/>	N
If yes, detail (if not detailed under recent disease problems).	Last few batches of eggs very good survival to hatch 98%, low level of deformities observed.	

Records checked between: 18/01/2018 - 10/07/2019

Case Number:	2019-0319	Site No:	FS0552	Insp:		
Date of Visit	10/07/2019	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	10
	Frequency of movements on from equivalent zone or compartment including third country	0	9	18	26	
	Number of suppliers	0	5	10	14	5
Movements off	Frequency of movements off	0	3	6	10	6
	Number of destinations	0	3	6	10	3
Exposure via water	Site contacts	0	1-5	6-10		
Water contacts with other farms (holding species susceptible to same diseases)	Farm is protected (secure water supply through disinfection or borehole)	0				
	Farm is on-line or in a coastal zone with category I farms upstream or within 1 tidal excursion	1	2	4		1
	Farm is on-line or in a coastal zone with category III farms upstream or within 1 tidal excursion	1	3	6		
	Farm is on-line or in a coastal zone with category V farms upstream or within 1 tidal excursion	1	4	8		
Management practices		None	Secure	Unsecure		
Water contacts with processors	Any processing plant discharging into adjacent waters	0	1	2		0
On farm processing within the rules of the directive	No on farm processing	0				0
	Processing own fish (re-cycling risk)	1				
	Processing fish from MS of equivalent status	2				
	Processing fish from zone or compartment of equivalent status	4				
	Processing fish from Category III farm	8				
	Processing fish from Category V farm	10				
Disposal of fish and fish by-products	Site's own waste only processed.	0				0
	Common processes with other farms	3				
	Collection point for waste from other farms	5				
Use of unpasteurised feeds	No feeding of unpasteurised feed	0				0
	Feeding unpasteurised feed	5				
Biosecurity	Number of sites	1	2 or 3	≥ 4		
Contacts with other sites	Sites operating from single shorebase	0	1	2		1
	Sites sharing staff and equipment	0	1	2		1
Disinfection of equipment between sites, use of footbaths etc	Yes	0				0
	No	1				
CoGP/Regulator						
Practices in accordance with regulator or industry code of practice	Yes	0				0
	No	3				
Platform access to cages	Yes	0				0
	No	2				
Total Rank					27	HIGH

Case No: **2019-0319**

Site No: **FS0552**

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? N
2. Are measures in place to mitigate against the predation experienced on site? (Detail below) N/A

Inside secure building

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

██████████
Dawnfresh Farming Ltd
Bothwellpark Industrial Estate
Uddingston
Lanarkshire
G71 6LS
████████████████████

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0456	DATE OF VISIT	10/07/2019
SITE No	FS0552	SITE NAME	St Mungos
INSPECTOR	██████████	CASE No	20190319

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 high. An inspection under the Aquatic Animal Health (Scotland) Regulations 2009 will be conducted annually. The category of the site will be reassessed on a routine basis and updated as required.

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

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

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

Mortality records were inspected and found to be adequately maintained.

R04

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

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

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

Inspection under the Aquaculture and Fisheries (Scotland) Act 2007

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

On this occasion the site was found to be satisfactory.

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

Signed:

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

Date: 11/07/2019

Senior 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: 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:

Paperwork with [REDACTED] t Fort William office on 9/7/2019

12h per cage freshwater wellboat treatment for gill health and lice from 28th May to 11th June. Pen 5 treated on 1st June, pen 11 treated on 9th June. Increased mortalities reported to FHI on 30/6/19 MRT01093 and MRT01094 and 1/7/19 MRT01095.

Very small consent for slice, therefore not being used currently.

Site stocked 2018 wk 31

Most recent treatment: Pen 5 8/7/2019 with Alphamax. Caligus challenges on site. Treatments administered based on lice counts per week per cage. Numbers for Caligus elevated in the last 2 weeks, treatments with Alphamax conducted.

Rum is a new site and is not currently in a CoGP management area. Therefore no FMA/FMS required.

Site inspected on 10/7/2019. Visibility good, nets very clean. Some wild fish observed in the cages. Jelly fish observed in the cages, especially in pen 6. These are removed whenever possible. Two blind and anorexic fish removed from pen 4. Pen 5 and pen 11 damaged fish with rubbed sides observed. Unable to catch any damaged fish in pen 5 as these were still actively swimming. 5 fish removed from pen 11 for diagnostic sampling. The fish sampled for VMD appeared healthy. Fish in the other pens looking very good.

Case No: **2019-0320** Site No: **FS1317**
 Date of Visit: **09/07/2019** 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				
Age group	2018 Q3				
No Fish	754,974				
Mean Fish Wt	2.97kg				
Next Fallow Date (Site)	Feb 2020	Next Input Date (Site)	April/May 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: **19/06/2018**
- 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)? **Y**
- If yes, is there a system in place for maintenance of transportation records? **Y**

Mortality Records

- 1. Mortality records available for inspection? **Y**
- 2. How are mortalities disposed of? **Ensiled - on site**
- If other detail: **then to Cumbernauld**
- 3. Mortality records complete and correctly entered? **Y**
- 4. Recent mortality (last 4 wks): **All pens except for pen 5 and pen 11 between 8 - 128 morts per day for the last month. w/b/ 1/7/19 whole site 0.458% mortality. 3,524 morts.**
- 5. Evidence of recent increased/atypical mortalities? **Y**
- If yes, facility nos/no mortality per facility/no stock per facility/reason:

Pen 5 and 11 increased mortalities. Pen 5: 14th-17th June between 1200 -1800 per day for the pen then decreasing the following days to between 165-468 per day from 18th to 26th June. Total mortality for Pen 5 for the last month 9,313 morts. Pen 11: 10th, 11th and 13th between 300-600 per day for pen 11. Then from 14 June: 3,615 morts ; 15 June: 8,100 morts; 16 June: 3,600 morts; 17 June: 2,250 morts ; 18th June: 1,600 morts ; 19 June: 1,760 morts; 20 June: 1,110 morts; then from 21 - 30 June between 1,010 to 380 per day for pen 11. Pen 11 mortality for the last months: 31,450.

- 6. Any other peaks in mortality during period checked? **Y**
- If yes, detail: **Slight increase post input w36 and wk37 2018, 1.18% and 1.39% for the site (fish less than 750g).**
- 7. Have increased (unexplained) mortalities been reported to vet or FHI? **Y**
- If yes, detail action: **mortality currently being investigated, issues with swim bladder suspected**
- 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:	Alphamax, 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 increased (unexplained) 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 how and when that will be notified to Scottish Ministers?	<input type="checkbox"/>	Y
5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or higher health status, certification if required)?	<input type="checkbox"/>	Y
6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minimise transmission of disease been covered (movement of staff, visitors, equipment, live or dead fish etc.)?	<input type="checkbox"/>	Y
7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals held on site?	<input type="checkbox"/>	Y
8. Have the biosecurity procedures been adequately implemented on site?	<input type="checkbox"/>	Y
If no, detail:		

Results of Surveillance

1. Has any animal health surveillance been carried out by, or on behalf of, the business?	<input type="checkbox"/>	Y
2. If yes, are results available for inspection?	<input type="checkbox"/>	Y
3. Any significant results?	<input type="checkbox"/>	N
If yes, detail (if not detailed under recent disease problems).		
September 2018: (No Suggestions) stock some flank damage, damaged fish dying. (see mort records)		

Records checked between: 19/06/2018 - 10/7/2019

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	6	7	8				
Pool Group	P1	P1	P1	P1	P1								
Species	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL				
Average weight	2.5kg	2.5kg	2.5kg	2.5kg	2.5kg	2.5kg	2.9kg	4kg	2.5kg				
Sex	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				
Stock Details		Loch Lochy	Loch Lochy	Loch Lochy	Loch Lochy	Loch Lochy	Loch Lochy	Glenfinnan	Loch Lochy	Glenfinnan			
	Stock Origin												
Facility No	11	11	11	11	11	11	3	2	6				

Case no: 2019-0320

Site No: FS1317

Method of killing: Percussive

Date of visit: 09/07/2019

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)		30min	60 min	90 min	120 min	180min					
External Signs											
Behaviour	Moribund	M	M	M	M	M					
	Lethargic	M	M	M	M	M					
	Hanging vertical										
	Spiralling										
	Flashing										
	Loss of equilibrium										
Body	Dark										
	Distended abdomen										
	Anorexic										
	Scale Oedema										
Opercula	Shortened										
	Flared										
Haemorrhaging	Throat										
	Ventrum										
	Base of fins										
	Elsewhere										
Eyes	Exophthalmic										
	Enophthalmic (sunken)										
	Cataract										
	Haemorrhagic										
Gills	Pale										
	Zoned	W									
	Necrotic										
Lesions	Flank	S	M	W	M	M					
	Elsewhere										
Vent	Inflamed	W									
	Trailing faeces										
Lice Load	Estimate numbers	~10	~10	~10	~10	~10					
Internal Signs											
Ascites	Clear										
	Bloody	S	S	S	S	S					
Oedema	In tissues										
Heart	Pale/anaemic										
	Granulomas										
	Deformed										
Liver	Petechial haem		M								
	Gross haem										
	Tissue breakdown										
	Enlarged										
	Colour number(s)					8					
	Granulomas										
	Lesions										
Pyloric caeca	Petechial haem										
	Tubules mauve										
	Lack of fat										
Spleen	Enlarged	W	W	W	W	W					
	Granulomas										
Gut	No food present										
	Yellow pseudo-faeces										
	External haem										
	Internal haem										
Body wall	Haemorrhaging										
Swim bladder	Haemorrhaging										
	Fluid filled										
Kidney	Swollen										
	Grey	W		W		W					
	Granular										
	Liquefied										
General	Parasites present										
	Anaemia										

Additional comments:

Caligus only observed on all fish sampled for the diagnostic. All fish had physical damage, which is suspected to have been caused due to issues with the swim bladder during a freshwater treatment in June (issues with swim bladder regulation when subsequently pumping fish off the boat). F5 lesion on both sides.

Case Number:	2019-0320	Site No:	FS1317	Insp:		
Date of Visit	09/07/2019	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	0
	Number of suppliers	0	5	10	14	0
Movements off	Frequency of movements off	0	3	6	10	10
	Number of destinations	0	3	6	10	3
Exposure via water	Site contacts	0	1-5	6-10		
Water contacts with other farms (holding species susceptible to same diseases)	Farm is protected (secure water supply through disinfection or borehole)	0				
	Farm is on-line or in a coastal zone with category I farms upstream or within 1 tidal excursion	1	2	4		1
	Farm is on-line or in a coastal zone with category III farms upstream or within 1 tidal excursion	1	3	6		
	Farm is on-line or in a coastal zone with category V farms upstream or within 1 tidal excursion	1	4	8		
Management practices		None	Secure	Unsecure		
Water contacts with processors	Any processing plant discharging into adjacent waters	0	1	2		0
On farm processing within the rules of the directive	No on farm processing	0				0
	Processing own fish (re-cycling risk)	1				
	Processing fish from MS of equivalent status	2				
	Processing fish from zone or compartment of equivalent status	4				
	Processing fish from Category III farm	8				
	Processing fish from Category V farm	10				
Disposal of fish and fish by-products	Site's own waste only processed.	0				0
	Common processes with other farms	3				
	Collection point for waste from other farms	5				
Use of unpasteurised feeds	No feeding of unpasteurised feed	0				0
	Feeding unpasteurised feed	5				
Biosecurity	Number of sites	1	2 or 3	≥ 4		
Contacts with other sites	Sites operating from single shorebase	0	1	2		0
	Sites sharing staff and equipment	0	1	2		0
Disinfection of equipment between sites, use of footbaths etc	Yes	0				0
	No	1				
CoGP/Regulator						
Practices in accordance with regulator or industry code of practice	Yes	0				0
	No	3				
Platform access to cages	Yes	0				0
	No	2				
Total Rank					14	LOW

Case No: **2019-0320**

Site No: **FS1317**

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.

High numbers of Caligus observed on lethargic fish removed from pen 11, this corresponds to current counts. Site currently treating

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)

If other, detail below:

tension nets, top nets, seal blinds,

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: 2019-0320

Site No: FS1317

Date of Visit: 09/07/2019

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: FS1317
Case No: 2019-0320
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	09/07/2019
SITE No	FS1317	SITE NAME	Rum
INSPECTOR	██████████	CASE No	20190320

Section 1: Summary

An inspection was conducted to follow up mortality event reports due to post-treatment damage. Five moribund and lethargic fish with lesions were removed for diagnostic sampling.

Histopathology examination revealed mild multifocal proliferative pathology in the gill and presence few epitheliocystis. Lesions showed ulcerative bacterial dermatitis potentially associated with physical/mechanical damage.

Vibrio spp. were isolated however, overall the level and purity of growth would not suggest these organisms are the primary source of 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

Following submission of data for mortality events to the Fish Health Inspectorate (MRT01093 - MRT01095) a site visit was conducted. Mortalities were classed as treatment losses following a 12 hour freshwater wellboat treatment per cage on site between 28th May to 11th June 2019. However, only pen 5 and 11 were experiencing unexpected mortality levels attributed to physical damage and swimbladder issues. Currently the business is still investigating the incident. The week prior to the inspection mortality levels had fallen to 0.45%.

During the site inspection fish with physical damage were observed in pen 5 and pen 11. Fish with damage were unable to be caught from pen 5, however five fish were removed from pen 11 for diagnostic sampling. All five fish were moribund and lethargic and had lesions of varying degrees

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on the flank. F1 had zoned gills and a slightly inflamed vent. All fish had a lice burden of approximately 10 *Caligus* per fish of all stages. Internally all fish had bloody ascites and an enlarged spleen. F2 had petechial haemorrhaging on the Liver and F4 had a dark liver. The kidney appeared to have a grey sheen in F1, F3 and F5.

Samples

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

Fish number	Pool number	Facility number	Species	Stage	Origin
F1 – F5	P1	11	Atlantic salmon	2018 Q3, 2.9kg	Loch Lochy

Results

Bacteriology: Kidney, gill, spleen and lesion material from five fish was inoculated onto appropriate media for the isolation of bacteria.

The following bacteria were isolated:

- *Vibrio* sp. Isolate A: F1 & F4 (Lesion, Gill); F2, F3 & F5 (Kidney, Lesion, Gill)
- *Vibrio* sp. Isolate B: F1 (Kidney, Lesion, Gill); F2, F3 & F5 (Lesion, Gill); F4 (Lesion)

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

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

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 by light microscopy revealed the following:

Gill: Mild multifocal interlamellar hyperplasia and lamellar fusion (F1-F5). Few numbers of basophilic epithelial inclusions (likely epitheliocystis) noted in F4 and two plankton-like structures noted in F2. Several scattered aneurysmal dilation/telangiectasia and lamellar thrombi. Free blood among gill filament (likely associated with the method of percussive stunning). Generalised lamellar epithelial lifting note in F5 (likely post mortem artefacts).

Skin & Muscle: Lesion: Absence of epidermal layer, dermal oedema and inflammatory cell infiltration which reaches the upper layer of the hypodermis. Some haemorrhage also noted (F1-F2 & F4-F5). The lesion showed presence of bacteria that stained Gram negative associated with dermal layer.

Heart: Two small thrombi (F2).

Gut and pyloric caeca: Mild to moderate epithelial cell sloughing (likely post mortem artefacts) (F1-F5). Minor fibrous adhesions associated with vaccine administration (F5).

Pancreas: Within normal range.

Liver: Within normal range.

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Kidney: Within normal range.

Spleen: Slightly congested (F2, F5).

Signed:



Fish Health Inspector

Date: 02/08/2019

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

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

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0119	DATE OF VISIT	09/07/2019
SITE No	FS1317	SITE NAME	Rum
INSPECTOR	██████████	CASE No	20190320

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. Samples were taken for diagnostic purposes. A separate report will be issued detailing the results of these tests.

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.

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

Mortality records were inspected and found to be adequately maintained.

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

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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, containment and escapes. The site is not currently located in a Code of Good Practice Management Area.

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

Signed:



Date: 18/07/2019

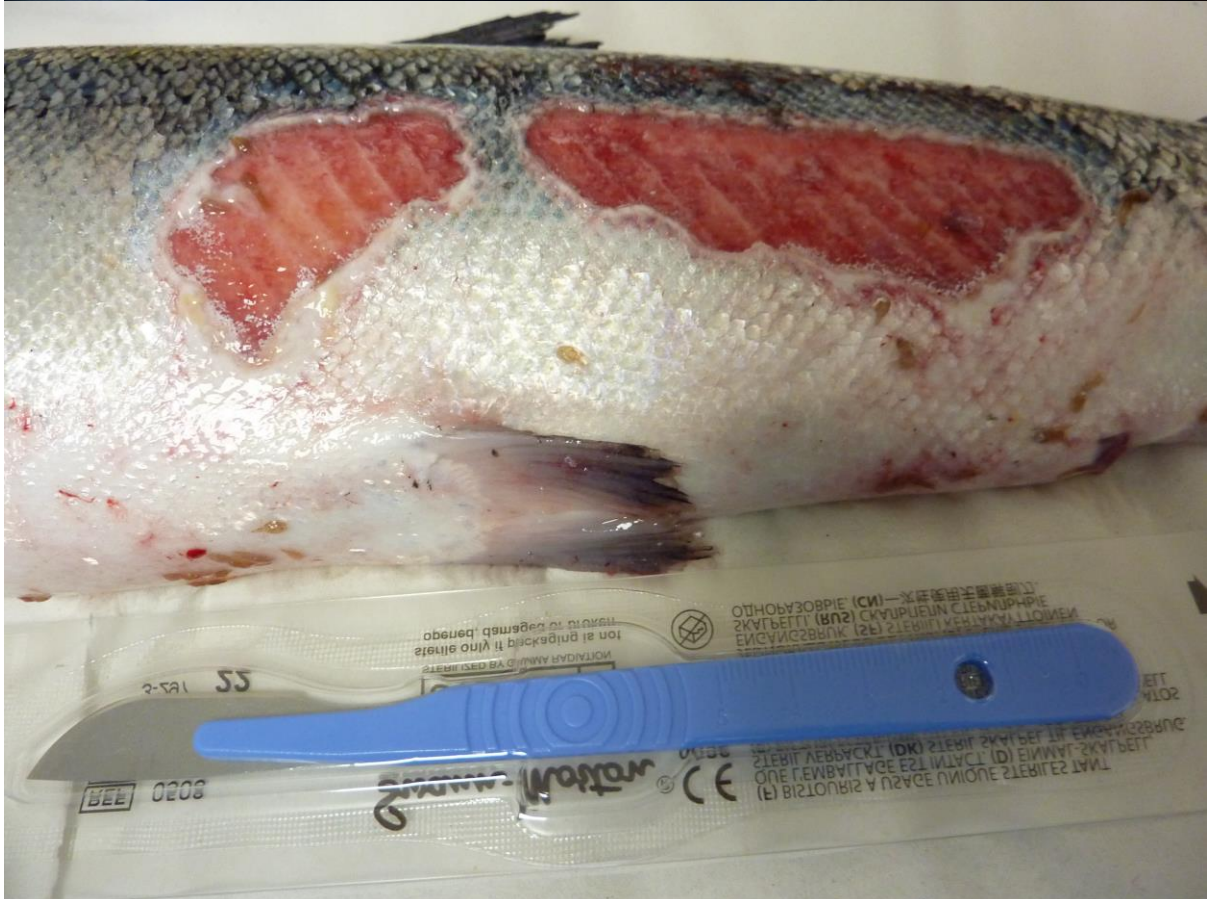
Fish Health Inspector

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

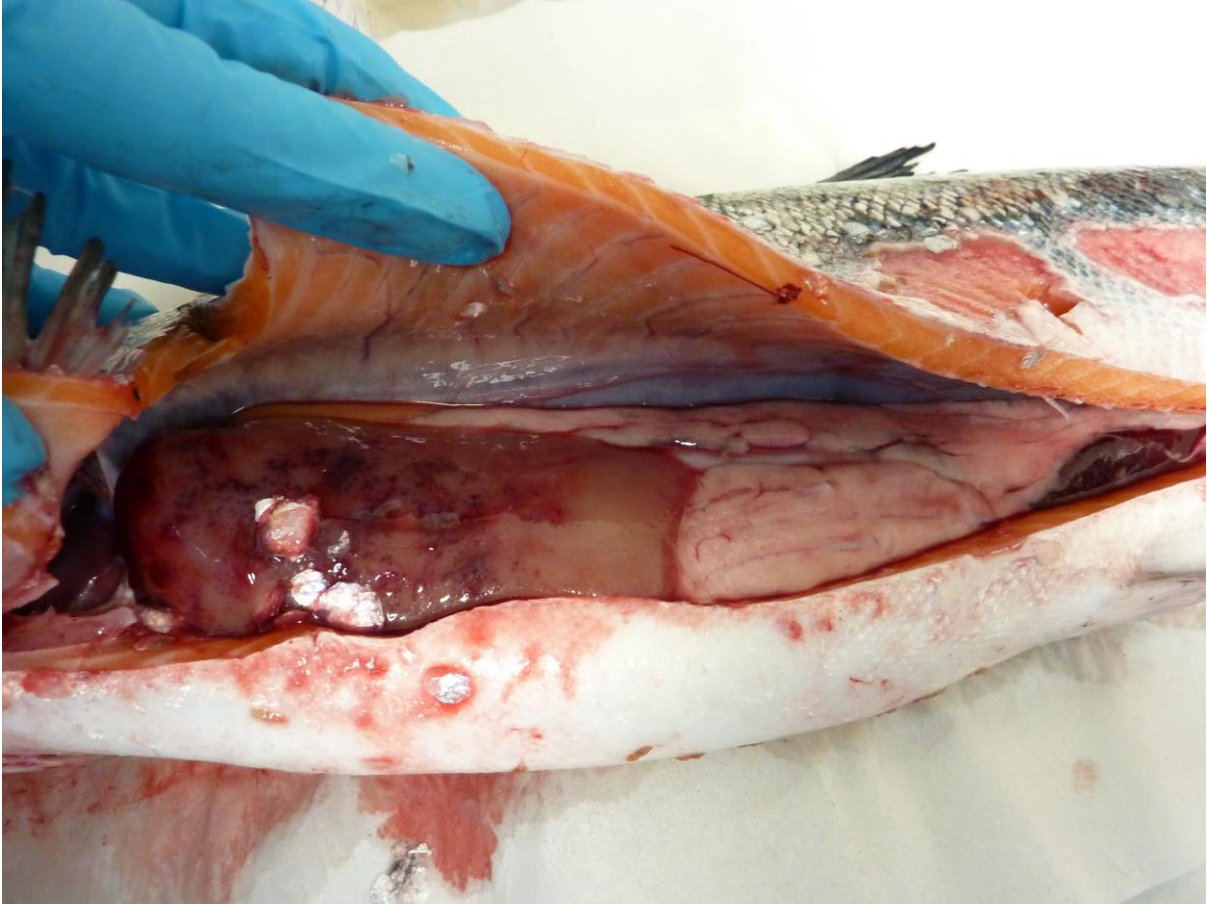
2019-0320
F1 external:



F2 external:



F2 internal:



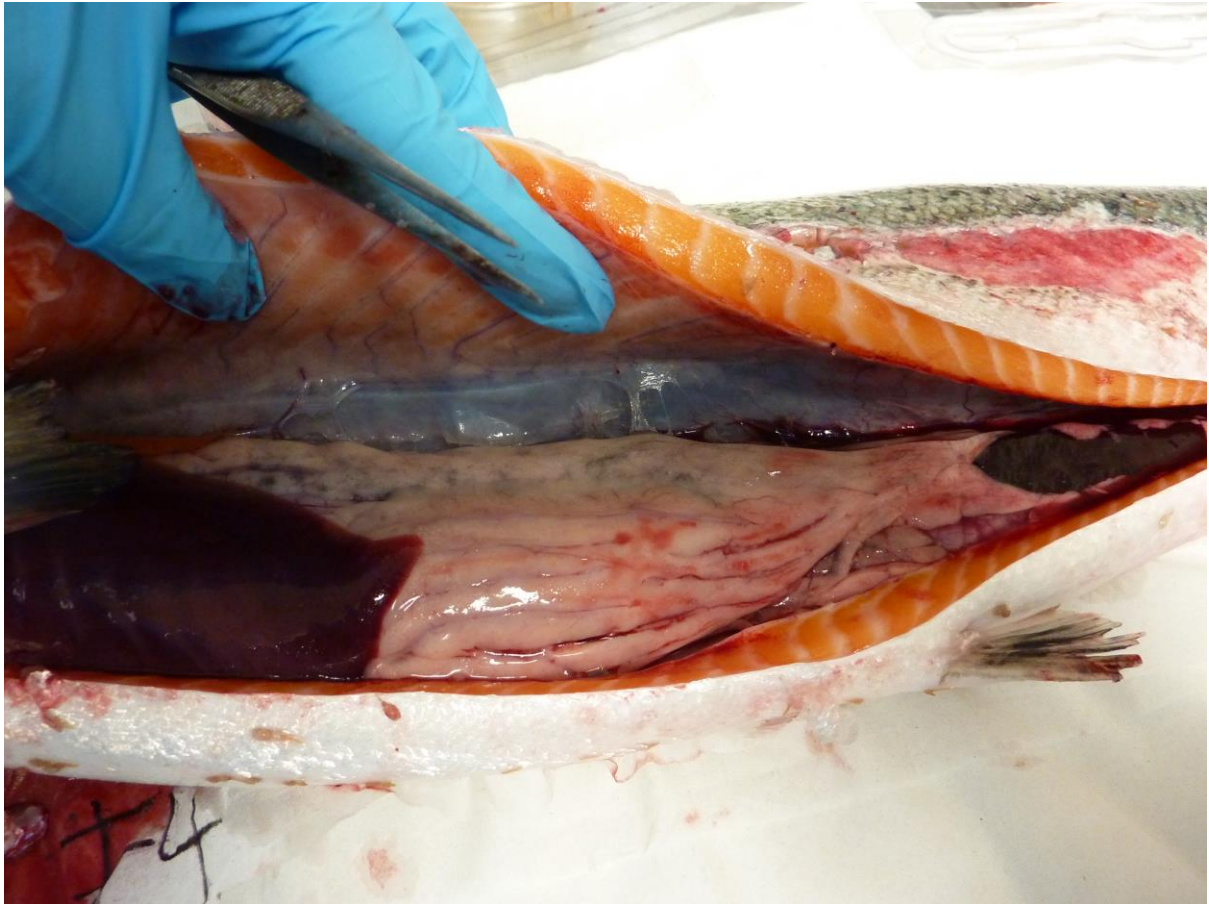
F3 external:



F4 external:



F4 internal:



F5 external:



Case No:	<input type="text" value="2019-0321"/>	Date of visit:	<input type="text" value="04/07/2019"/>			
Time spent on site:	<input type="text" value="6 hrs"/>	Main Inspector:	<input type="text" value=""/>			
Site No:	<input type="text" value="FS0504"/>	Site Name:	<input type="text" value="Girista Hatchery"/>			
Business No:	<input type="text" value="FB0557"/>	Business Name:	<input type="text" value="Grieg Seafood Shetland Ltd (Hatchery)"/>			
Case Types:	1 <input type="text" value="CER"/>	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="13.1"/>	Thermometer No:	<input type="text" value="Site"/>	FHI 045 completed	<input type="text" value=""/>	
Observations:	Region:	SH	Water type:	F	CoGP MA	
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:

Site thermometer used for biosecurity. Parr and smolt unit 13.1C

Some mortalities observed washed on screens in tanks, fish sampled showed no signs of gross pathology. Tanks in the parr and smolt unit visually inspected.

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	38 + 1 hat	Facilities stocked	27 + 1 hat	No facilities inspected	16 tanks
Species	SAL	SAL	SAL		
Age group	Q2 2020	Q1 2020	Q3 2019		
No Fish	1.75 million	1.81 million	1.47 million		
Mean Fish Wt	eggs	2.9g	69g		
Next Fallow Date (Site)	none	Next Input Date (Site)	October 2019		

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?

wk 26: parr/smolt unit 0.34% 4,991 morts, fry unit 0.08% 1,386 morts, eggs 0.10% 1,753 morts; wk25: parr/smolt unit 0.02% 303 morts, fry unit: 0.06% 1,087 morts; wk24: parr/smolt unit: 0.12% 1,840 morts, fry unit: 0.05% 906 morts; wk 23 parr/smolt unit: 0.02% 253 morts, fry unit: 0.16% 2,878 morts

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?
 wk 26: smolt unit tank 11 2,242 morts due to issues with vaccination equipment, other tanks considerably lower.

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

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:	<input type="text"/>

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).	<input type="text"/>
<input type="text"/>	

Records checked between:

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

Priority samples: VI BA PA MG HI

Time sampling starts/ends: Inspector: VMD No.

Environmental conditions: 1 2 3 4 5

Summary samples HIST BA MG VI PA Total Samples

Add Fish/Pools - click

Pool/Fish No	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12
Fish nos												
Pool Group	P1	P1	P1	P1	P1	P1	P1	P1	P1	P1	P2	P2
Species	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL
Average weight	69g	69g	69g	69g	69g	69g	69g	69g	69g	69g	69g	69g
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	FW	FW	FW	FW	FW	FW	FW	FW	FW	FW	FW	FW
Stock Details		Stofnfiskur	Stofnfiskur	Stofnfiskur	Stofnfiskur	Stofnfiskur	Stofnfiskur	Stofnfiskur	Stofnfiskur	Stofnfiskur	Stofnfiskur	Stofnfiskur
	Stock Origin											
Facility No	P8	P8	P8	P8	P8	P8	P8	P8	P8	P8	P8	P8

07/2019 Additional Sample Information:

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Total Tests assigned

10

F13	F14	F15	F16	F17	F18	F19	F20	F21	F22	F23	F24	F25	F26	F27	F28
P2	P2	P2	P2	P2	P2	P2	P2	P3	P3	P3	P3	P3	P3	P3	P3
SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL
69g	69g	69g	69g	69g	69g	69g	69g	69g	69g	69g	69g	69g	69g	69g	69g
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
FW	FW	FW	FW	FW	FW	FW	FW	FW	FW	FW	FW	FW	FW	FW	FW
Stofnfiskur	Stofnfiskur	Stofnfiskur	Stofnfiskur	Stofnfiskur	Stofnfiskur	Stofnfiskur	Stofnfiskur	Stofnfiskur	Stofnfiskur	Stofnfiskur	Stofnfiskur	Stofnfiskur	Stofnfiskur	Stofnfiskur	Stofnfiskur
P8	P8	P8	P8	P8	P8	P8	P8	P6	P6	P6	P6	P6	P6	P6	P6

[REDACTED]
Grieg Seafood Shetland Ltd (Hatchery)
Gremista
Lerwick
Shetland
ZE1 0PX
[REDACTED]

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No FB0557
SITE No FS0504
INSPECTOR [REDACTED]
DATE OF VISIT 04/07/2019
SITE NAME Girlsta Hatchery
CASE No 20190321

Certification Test

Tissue samples from thirty Atlantic salmon were tested for segments of nucleic acid indicative of the presence of *Yersinia ruckeri*, the causative agent of enteric redmouth disease (ERM); *Aphanomyces invadans*, the causative agent of Epizootic ulcerative syndrome (EUS); *Gyrodactylus salaris*, infectious haematopoietic necrosis virus (IHNV), infectious salmon anaemia virus (ISAV), viral haemorrhagic septicaemia virus (VHSV), epizootic haematopoietic necrosis virus (EHNV) and salmonid alphavirus (SAV) using PCR or real-time PCR (QPCR). The results are as follows:

Fish number	Facility number	Origin	Result
F1 – F20	P8	Stofnfiskur (Iceland)	Negative
F21 - 30	P6	Stofnfiskur (Iceland)	Negative

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

Signed:

[REDACTED]

Fish Health Inspector

Date: 17/07/2019

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]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0544	DATE OF VISIT	04/07/2019
SITE No	FS1240	SITE NAME	Highland – River Forss
INSPECTOR	[REDACTED]	CASE No	20190322

Section 1: Summary

Following observations of moribund and dead wild Atlantic salmon in the River Forss, the River Superintendent contacted the Fish Health Inspectorate on the 4th July 2019. Fish Health Inspectors visited the river to conduct diagnostic sampling. Five moribund fish were removed from a pool using hand nets. Several other moribund fish with lesions and fungal-like infection were also observed in the same pool. It was reported that fish with similar clinical signs had been observed since April 2019.

Histopathology examination revealed mild to marked bacterial branchitis, presence of some epitheliocystis which tested positive for *Candidatus* branchiomonas cysticola by QPCR, and a mild multifocal myositis. Features consistent with clinical salmon gill poxvirus were noted in all fish, this was confirmed by QPCR.

Aeromonas spp. and *Pseudomonas fluorescence* were isolated. The level and purity of growth would not suggest that bacteria are the primary source of morbidity. Although *P.flouescence* has been associated with fish disease.

Microscopic examination also revealed a fungus-like organism matching the characteristics of *Saprolegnia* sp. on samples taken.

Fins were examined by light microscopy and displayed heavy fungal-like growth. The structures exhibited microscopic characteristics of *Saprolegnia* sp.. *Saprolegnia* sp. was observed on plates taken from tissue material of two fish.

A heavy infestation of *Anisakis simplex* was noted in the vents of three fish with a lighter infestation in two, one vent was noted to be reddened.

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

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Section 2: Case Detail

Observations

Externally, haemorrhaging was observed on the throat of F4, and on the ventrum and base of fins on all fish. The gills in all fish were pale in colour and lesions were observed on the flank, head and tail of all fish sampled.

Internally, all fish except F2 had petechial haemorrhaging on the liver, with F4 exhibiting some tissue breakdown. The liver was pale in F1-3 and dark in F5. There was petechial haemorrhaging noted on the pyloric caeca of F3-4 with all fish showing a lack of fat. The spleen was enlarged in F1-4. No food was present in the guts of any of the fish sampled and yellow pseudo-faeces were noted in F1-4. There was slight haemorrhaging on the swim bladder of F3 and the kidney of F4 was slightly granular. Parasites were present in F1-2 and 4.

Samples

Samples were collected from 5 fish according to the table below:

Fish number	Pool number	Species	Stage
F1-5	P1	Atlantic salmon	2.5-5kg

Results

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

The following bacteria were isolated:

- *Aeromonas* sp. (Isolate A): Fish 1-5 (Lesion, Kidney and Gill)
- *Aeromonas* sp. (Isolate C): Fish 2-5 (Lesion, Kidney and Gill)
- *Aeromonas* sp. (Isolate D): Fish 2 (Kidney)
- *Pseudomonas fluorescens* (Isolate E): Fish 1, 4-5 (Lesion and Gill)

Saprolegnia sp., a fungal-like (oomycete) organism was also observed on plates.

Tissue samples were tested for segments of nucleic acid indicative of the presence of the following pathogen using real-time PCR (QPCR).

Candidatus branchiomonas cysticola

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F5	23.95	34.31	34.54	34.58	POSITIVE

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

The following pathogen was identified:

Salmon gill poxvirus (SGPV)

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	24.00	23.54	23.67	23.65	POSITIVE
F2	24.09	25.57	25.54	25.52	POSITIVE

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F3	25.23	24.11	24.24	24.11	POSITIVE
F4	25.52	33.47	33.64	33.5	POSITIVE
F5	23.95	26.04	26.09	26.09	POSITIVE

The samples tested negative for infectious haematopoietic necrosis virus (IHNV), infectious pancreatic necrosis virus (IPNV), infectious salmon anaemia virus (ISAV), salmonid alphavirus (SAV), viral hemorrhagic septicemia virus (VHSV), piscine reovirus (PRV) and piscine myocarditis virus (PMCV).

A general screen was conducted on tissue samples to test for the presence of viral pathogens by cell culture. The result of this test was negative.

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


No *G. salaris* parasites were detected in the samples examined.

Anisakis simplex was observed in the vents of all fish.

Histology: Tissue samples of gill, skin and skeletal muscle, heart, pyloric caeca, pancreas, hind gut, liver, spleen and kidney were taken from F1-5. The tissue samples were fixed in 10% neutral buffered formalin.

Histopathological examination revealed the following:

- **Gill:** Mild to marked presence of aggregates of bacteria colonizing the lamellar surface, showing affinity to the chloride cells and also hyperplasia of chloride cells. Some bacteria also noted free among gill filaments (F1-F5). Features of nuclear karyorrhexis in the lamellar epithelial cells, hyperplasia of chloride cells, cell apoptosis and some adhesions of adjacent lamellae also noted in F1 & F2. F3 also showed 4 small foci of lamellar epithelial hyperplasia and some lamellar fusion and in F5 few numbers of basophilic epithelial inclusions (likely epitheliocystis) with thickness of the lamellar tips were also noted. Some clusters oomycete-like noted among gill filament of F1.
- **Skin & Muscle:** Multiple small foci of skeletal red fibre degeneration (shrunken fibres and increase in fibre eosinophilia), some fibres showed nuclei not restricted to the periphery (F1 & F2). Some with associated mild inflammatory cell infiltration. F2 also showed a small foci of wither fibre degeneration. Oomycete-like also noted at the outer layer of dermis in F2.
- **Heart:** Within normal range.
- **Gut and pyloric caeca:** A Cestoda parasite noted in F1 and in F4 Nematodes (likely *Anisakis*).
- **Pancreas:** Within normal range.
- **Liver:** Mild diffuse hepatic vacuolation (F1-F4), eosinophilic droplets noted in the cytoplasm of liver hepatocytes of F3.
- **Kidney:** Within normal range. F4 & F5 only sampled head kidney.
- **Spleen:** Some thickness of splenic serosa noted in F5.

Signed: 

Date: 13/08/2019

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

R09

Marine Laboratory, 375 Victoria Road, Aberdeen, AB11 9DB

Tel - 0131 244 3498 Fax - 0131 244 0944 Email - ms.fishhealth@gov.scot

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









Case No:	<input type="text" value="2019-0330"/>	Date of visit:	<input type="text" value="16/07/2019"/>			
Time spent on site:	<input type="text" value="3.5 hrs"/>	Main Inspector:	<input type="text" value=""/>			
Site No:	<input type="text" value="FS0050"/>	Site Name:	<input type="text" value="Kenmore Loch Torridon"/>			
Business No:	<input type="text" value="FB0169"/>	Business Name:	<input type="text" value="The Scottish Salmon Company"/>			
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="13.1"/>	Thermometer No:	<input type="text" value="T153"/>	FHI 045 completed	<input type="text" value=""/>	
Observations:	Region:	HI	Water type:	S	CoGP MA	M-17
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:

All cages have work platforms, all cages inspected from platforms, good visibility at time of inspection and no dead, moribund or lethargic fish observed on site at time of inspection. All cages showed a good feeding response. Fish sampled for VMD appeared in very good condition with very few sea lice observed.

Larger grade of fish were split to Sgeir Dughall.

Slightly elevated mortalities post hydrogen peroxide treatment

AGD on site, but not causing problems, gill scores in three cages were slightly higher, a hydrogen peroxide treatment conducted 12/07 on three cages (1,5 & 6). 4 remaining cages underwent a hydrolicer treatment.

Majority of harvests will be live haul to Ardnish, some harvests will be live haul to Ardyne harvest station. Still have capacity for dead haul, but unlikely to use this cycle.

Currently running a project with Patogen, sampling site for QPCR screening every two weeks as a preventative measure to highlight any potential issues before they occurred and allow for any required actions to be planned and implemented if required.

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	/		Facilities stocked	/		No facilities inspected	/	
Species	SAL	LUM						
Age group	2018 S1	2018						
No Fish	156,413	19,192						
Mean Fish Wt	3.1kg	80g						
Next Fallow Date (Site)	Oct 2019		Next Input Date (Site)	Dec 2019/Jan 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., hydrogen peroxide	
If other, detail:		
2. Medicines records available for inspection?	<input type="checkbox"/>	Y
3. Are records complete and correctly entered?	<input type="checkbox"/>	Y
4. Are fish in a withdrawal period?	<input type="checkbox"/>	Y
5. If yes, what treatment(s)?	T.M.S.	
If other, detail:		
6. Are medicines stored appropriately?	<input type="checkbox"/>	Y

Biosecurity Records

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

Results of Surveillance

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

Records checked between: 09/08/17 to 16/07/19

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												
Pool Group													
Species	SAL												
Average weight	4kg												
Sex	N/A												
Water Type	SW												
Stock Details	Stock Origin	Loch Dampn, Migdale											
	Facility No	4											

Case Number:	2019-0330	Site No:	FS0050	Insp:		
Date of Visit	16/07/2019	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	0
	Number of suppliers	0	5	10	14	0
Movements off	Frequency of movements off	0	3	6	10	10
	Number of destinations	0	3	6	10	3
Exposure via water	Site contacts	0	1-5	6-10		
Water contacts with other farms (holding species susceptible to same diseases)	Farm is protected (secure water supply through disinfection or borehole)	0				0
	Farm is on-line or in a coastal zone with category I farms upstream or within 1 tidal excursion	1	2	4		2
	Farm is on-line or in a coastal zone with category III farms upstream or within 1 tidal excursion	1	3	6		0
	Farm is on-line or in a coastal zone with category V farms upstream or within 1 tidal excursion	1	4	8		0
Management practices		None	Secure	Unsecure		
Water contacts with processors	Any processing plant discharging into adjacent waters	0	1	2		0
On farm processing within the rules of the directive	No on farm processing	0				0
	Processing own fish (re-cycling risk)	1				1
	Processing fish from MS of equivalent status	2				0
	Processing fish from zone or compartment of equivalent status	4				0
	Processing fish from Category III farm	8				0
	Processing fish from Category V farm	10				0
Disposal of fish and fish by-products	Site's own waste only processed.	0				0
	Common processes with other farms	3				3
	Collection point for waste from other farms	5				0
Use of unpasteurised feeds	No feeding of unpasteurised feed	0				0
	Feeding unpasteurised feed	5				0
Biosecurity	Number of sites	1	2 or 3	≥ 4		
Contacts with other sites	Sites operating from single shorebase	0	1	2		1
	Sites sharing staff and equipment	0	1	2		1
Disinfection of equipment between sites, use of footbaths etc	Yes	0				0
	No	1				0
CoGP/Regulator						
Practices in accordance with regulator or industry code of practice	Yes	0				0
	No	3				0
Platform access to cages	Yes	0				0
	No	2				0
Total Rank					21	MEDIUM

Case No: **2019-0330**

Site No: **FS0050**

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, A.D.D., Tensioned nets, M.M.L.

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: 2019-0330

Site No: FS0050

Date of Visit: 16/07/2019

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?

Site No: FS0050
Case No: 2019-0330
Nature of non-compliance:
Action taken (FHI):
Non-compliance relevant to (delete): VirologyMolGen/Bacteriology/Histology/Parasitology



██████████
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	16/07/2019
SITE No	FS0050	SITE NAME	Kenmore Loch Torridon
INSPECTOR	Paul McKay	CASE No	20190330

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.

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

Mortality records were inspected and found to be adequately maintained.

R25

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

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

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

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.

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: 19/07/2019

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="2019-0334"/>	Date of visit:	<input type="text" value="15/07/2019"/>			
Time spent on site:	<input type="text" value="2.5 hrs"/>	Main Inspector:	<input type="text" value=""/>			
Site No:	<input type="text" value="SS0868"/>	Site Name:	<input type="text" value="Brandy Ayre"/>			
Business No:	<input type="text" value="SB0372"/>	Business Name:	<input type="text" value="Shetland Mussels Ltd"/>			
Case Types:	1 <input type="text" value="ECI"/>	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="11.2"/>	Thermometer No:	<input type="text" value="T148"/>	FHI 045 completed	<input type="text" value="N"/>	
Observations:	Region:	SH	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 number of source/ destination not recorded on movement records. Issue raised with site manager and will be recorded in future. No further action.

Stock on site clean. ~90% of stock on line \geq 45mm.

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="2"/>	Facilities stocked	<input type="text" value="1"/>	No facilities inspected	<input type="text" value="2"/>
Species	<input type="text" value="MED"/>				
Age group	<input type="text" value="Mix"/>				
No Fish	<input type="text" value="1 line"/>				
Mean Fish Wt	<input type="text" value="Mix"/>				
Next Fallow Date (Site)	<input type="text" value="unknown"/>	Next Input Date (Site)	<input type="text" value="Aug./Sep. 2019"/>		

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?	<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"/> 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:

Case Number:	2019-0334	Site No:	SS0868
Date of Visit	15/07/2019	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
			0
			3
			0
Sites within a tidal excursion			
		1	2-5
			>6
Site contacts	Number of sites holding susceptible species within a tidal excursion	0	2
			10
			10
Live shellfish movements			
		0	1-2
			>3
Movements on	Frequency of movements on from equivalent MS	0	5
			10
	Frequency of movements on from equivalent zone or compartment including third country	0	10
			20
	Number of suppliers	0	5
			10
			5
Movements off	Frequency of movements off <u>within</u> MSS Management Areas	0	1
			2
	Frequency of movements off <u>outwith</u> MSS Management Areas	0	3
			6
	Number of destinations	0	3
			6
			0
			0
			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
			2
	Depuration of stock from other businesses sites within MSS management area	0	2
			6
	Depuration of stock from sites outwith MSS management area	0	4
			8
			0
			0
			0
Biosecurity			
	Number of sites	1	2 or 3
			≥ 4
Contacts with other sites	Sites operating from single shorebase	0	1
			2
	Sites sharing staff and equipment	0	1
			5
			5
		Yes	No
	Disinfection of equipment between sites, use of footbaths etc	0	2
			2
			2
Total Risk			32
			HIGH

██████████
Shetland Mussels Ltd
Vadlure
Walls
Shetland
ZE2 9PF
██████████

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	SB0372	DATE OF VISIT	15/07/2019
SITE No	SS0868	SITE NAME	Brandy Ayre
INSPECTOR	██████████	CASE No	20190334

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 high. An inspection under the Aquatic Animal Health (Scotland) Regulations 2009 will be conducted annually. 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 found to be inadequately 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.

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

- Site number of destination or source sites not recorded in movement records

These must be addressed to ensure the conditions of authorisation for your Aquaculture Production Business (APB) are being met.

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

Signed:



Date: 31/07/2019

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="2019-0335"/>	Date of visit:	<input type="text" value="15/07/2019"/>			
Time spent on site:	<input type="text" value="2.5 hrs"/>	Main Inspector:	<input type="text" value=""/>			
Site No:	<input type="text" value="SS0563"/>	Site Name:	<input type="text" value="East Of Linga (Vaila Sound)"/>			
Business No:	<input type="text" value="SB0372"/>	Business Name:	<input type="text" value="Shetland Mussels Ltd"/>			
Case Types:	1 <input type="text" value="ECI"/>	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="11.2"/>	Thermometer No:	<input type="text" value="T148"/>	FHI 045 completed	<input type="text" value="N"/>	
Observations:	Region:	SH	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 number of source/ destination not recorded on movement records. Issue raised with site manager and will be recorded in future. No further action.

4 lines fully stocked, 1 line approximately 50% stocked.

35% of all stock on site \geq 45mm while remaining 65% is smaller. Low fouling.

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="5"/>	Facilities stocked	<input type="text" value="5"/>	No facilities inspected	<input type="text" value="5"/>
Species	<input type="text" value="MED"/>				
Age group	<input type="text" value="Mix"/>				
No Fish	<input type="text" value="5 lines"/>				
Mean Fish Wt	<input type="text" value="Mix"/>				
Next Fallow Date (Site)	<input type="text" value="never fallow"/>	Next Input Date (Site)	<input type="text" value="Aug./Sep. 2019"/>		

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: 08/03/2018 - 15/07/2019

██████████
Shetland Mussels Ltd
Vadlure
Walls
Shetland
ZE2 9PF
██████████

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	SB0372	DATE OF VISIT	15/07/2019
SITE No	SS0563	SITE NAME	East Of Linga (Valia Sound)
INSPECTOR	██████████	CASE No	20190335

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 high. An inspection under the Aquatic Animal Health (Scotland) Regulations 2009 will be conducted annually. 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 found to be inadequately 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.

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

- Site number of destination or source sites not recorded in movement records

These must be addressed to ensure the conditions of authorisation for your Aquaculture Production Business (APB) are being met.

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

Signed:



Date: 31/07/2019

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: SH 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 number of source/ destination not recorded on movement records. Issue raised with site manager and will be recorded in future. No further action.

4 lines stocked, approximately 50% of all stock on site $\geq 45\text{mm}$ while remaining 50% is smaller. Low to medium fouling.

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="5"/>	Facilities stocked	<input type="text" value="4"/>	No facilities inspected	<input type="text" value="5"/>
Species	<input type="text" value="MED"/>				
Age group	<input type="text" value="Mix"/>				
No Fish	<input type="text" value="4 lines"/>				
Mean Fish Wt	<input type="text" value="Mix"/>				
Next Fallow Date (Site)	<input type="text" value="never fallow"/>	Next Input Date (Site)	<input type="text" value="Aug./Sep. 2019"/>		

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: 08/03/2018 - 15/07/2019

Case Number:	2019-0336	Site No:	SS0604
Date of Visit	15/07/2019	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
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
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
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
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
	Disinfection of equipment between sites, use of footbaths etc	0	2
Total Risk			33
			HIGH

██████████
Shetland Mussels Ltd
Vadlure
Walls
Shetland
ZE2 9PF
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FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	SB0372	DATE OF VISIT	15/07/2019
SITE No	SS0604	SITE NAME	Lera Voe
INSPECTOR	██████████	CASE No	20190336

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 high. An inspection under the Aquatic Animal Health (Scotland) Regulations 2009 will be conducted annually. 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 found to be inadequately 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.

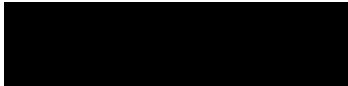
The following points were raised with the site representative during the inspection:

- Site number of destination or source sites not recorded in movement records

These must be addressed to ensure the conditions of authorisation for your Aquaculture Production Business (APB) are being met.

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

Signed:



Fish Health Inspector

Date: 31/07/2019

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="2019-0337"/>	Date of visit:	<input type="text" value="15/07/2019"/>			
Time spent on site:	<input type="text" value="2.5 hrs"/>	Main Inspector:	<input type="text" value=""/>			
Site No:	<input type="text" value="SS0839"/>	Site Name:	<input type="text" value="Whitesness"/>			
Business No:	<input type="text" value="SB0372"/>	Business Name:	<input type="text" value="Shetland Mussels Ltd"/>			
Case Types:	1 <input type="text" value="ECI"/>	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="11.2"/>	Thermometer No:	<input type="text" value="T148"/>	FHI 045 completed	<input type="text" value="N"/>	
Observations:	Region:	SH	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 number of source/ destination not recorded on movement records. Issue raised with site manager and will be recorded in future. No further action.

3 lines fully stocked, 2 lines approximately 66% stocked, 1 line approx. 33% stocked.
55% of all stock on site \geq 45mm while remaining 45% is smaller. Low to medium fouling.

Case No: **2019-0337** Site No: **SS0839**
 Date of Visit: **15/07/2019** 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	6	Facilities stocked	6	No facilities inspected	6
Species	MED				
Age group	Mix				
No Fish	6 lines				
Mean Fish Wt	Mix				
Next Fallow Date (Site)	never fallow	Next Input Date (Site)	Aug./Sep. 2019		

Recent (last 4 wks) disease problems? **N** Any escapes (since last visit)? **N/A**
 If yes, detail: **[REDACTED]**

Movement Records

1. Movement records available for inspection? **Y**
 2. Date of last inspection: **08/03/2018**
 3. Are records complete and correctly entered? **N**
 4. Are movement records available for dead fish and waste? **N/A**
 5. Are records complete and correctly entered? **N/A**
 6. Are health certificates for introductions (outwith GB) available? **Y**

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? **Other (detail)**
 If other detail: **empty shells drop to sea bed**
 3. Mortality records complete and correctly entered? **Y**
 4. Recent mortality (last 4 wks): **no mortalities observed 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)?	
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: 08/03/2018 - 15/07/2019

Case Number:	2019-0337	Site No:	SS0839
Date of Visit	15/07/2019	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
			0
			3
			0
Sites within a tidal excursion			
		1	2-5
			>6
Site contacts	Number of sites holding susceptible species within a tidal excursion	0	2
			10
			10
Live shellfish movements			
		0	1-2
			>3
Movements on	Frequency of movements on from equivalent MS	0	5
			10
	Frequency of movements on from equivalent zone or compartment including third country	0	10
			20
	Number of suppliers	0	5
			10
			5
Movements off	Frequency of movements off <u>within</u> MSS Management Areas	0	1
			2
	Frequency of movements off <u>outwith</u> MSS Management Areas	0	3
			6
	Number of destinations	0	3
			6
			6
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
			2
	Depuration of stock from other businesses sites within MSS management area	0	2
			6
	Depuration of stock from sites outwith MSS management area	0	4
			8
			0
			0
			0
Biosecurity			
	Number of sites	1	2 or 3
			≥ 4
Contacts with other sites	Sites operating from single shorebase	0	1
			2
	Sites sharing staff and equipment	0	1
			5
			5
		Yes	No
	Disinfection of equipment between sites, use of footbaths etc	0	2
			2
			2
Total Risk			51
			HIGH

██████████
Shetland Mussels Ltd
Vadlure
Walls
Shetland
ZE2 9PF
██████████

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	SB0372	DATE OF VISIT	15/07/2019
SITE No	SS0839	SITE NAME	Whitesness
INSPECTOR	██████████	CASE No	20190337

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 high. An inspection under the Aquatic Animal Health (Scotland) Regulations 2009 will be conducted annually. 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 found to be inadequately 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.

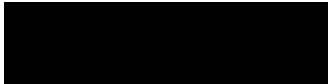
The following points were raised with the site representative during the inspection:

- Site number of destination or source sites not recorded in movement records

These must be addressed to ensure the conditions of authorisation for your Aquaculture Production Business (APB) are being met.

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

Signed:



Date: 31/07/2019

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: CE Water type: B 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:

Sampling by [REDACTED] done on return to Lab.

Water on site artificial and made on site. All shrimps on site transferred from Balfron Hatchery, originally imported in April from USA Texas. Staff had signed up for OIE disease notification of diseases and Texas was closed due to IHHNV on 13/5/19. Site of origin has informed Balfron they are free from IHHNV. When population was not performing as expected- huge variation in size with some animals not growing as expected they decided to carry out a health screen including IHHNV.

All animals on site will be culled today and will then be placed in chlorine followed by neutralisation with sodium phosphate before being placed in the anaerobic digester on site. The farm will then be treated with chlorine, including the biofilter and fallowed for 4-6 weeks. They will restock with shrimp from the hatchery at 1/3 capacity which will be tested 1 month after input by nested PCR.

Shrimp culled were 4.5 months from birth and would be expected to be at 25g, average weight is at approx. 2 g. 43,000 shrimp remain on site from the initial 350,000 that were imported. Mortality estimated at 50% during transport of the animals from USA, remaining mortality occurred on site. The number on site is difficult to assess as they have "cryptic" mortality which means as soon as a shrimp dies the other shrimp eat them so unable to get more figures.

Request for movement book and import certificate to be sent in. Received 18/7/19

Source in USA all hatchery reared no wild caught.

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	LPV	LPV	LPV	LPV	LPV	LPV	LPV	LPV	LPV	LPV	LPV	LPV
Average weight	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g
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	Import USA, Texas	Import USA, Texas	Import USA, Texas	Import USA, Texas	Import USA, Texas	Import USA, Texas	Import USA, Texas	Import USA, Texas	Import USA, Texas	Import USA, Texas	Import USA, Texas	Import USA, Texas
Facility No	Tank 1	Tank 1	Tank 1	Tank 1	Tank 1	Tank 1	Tank 1	Tank 1	Tank 1	Tank 1	Tank 1	Tank 1

07/2019 Additional Sample Information:

MG -RNAprep is for IHHNV

Samples manually added in LIMS due to species and IHHNV PCR test not being available in LIMS. LIMS numbers start at F3-F32 allocated against F1-F30. Shrimp were dead on arrival in aberdeen. Were alive when left Balfron and journey took 2.5 hours.

30

Total Tests assigned

2

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
LPV	LPV	LPV	LPV	LPV	LPV	LPV	LPV	LPV	LPV	LPV	LPV	LPV	LPV	LPV	LPV
0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g
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
Import USA, Texas	Import USA, Texas	Import USA, Texas	Import USA, Texas	Import USA, Texas	Import USA, Texas	Import USA, Texas	Import USA, Texas	Import USA, Texas	Import USA, Texas	Import USA, Texas	Import USA, Texas	Import USA, Texas	Import USA, Texas	Import USA, Texas	Import USA, Texas
Tank 1	Tank 1	Tank 1	Tank 1	Tank 1	Tank 1	Tank 1	Tank 1	Tank 1	Tank 1	Tank 1	Tank 1	Tank 1	Tank 1	Tank 1	Tank 1

Case no: 2019-0341

Site No: SS0923

Method of killing:

Date of visit: 16/07/2019

Inspector(s):

Sheet Relevant: Y

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

Fish Number	1	-30							
Time sampled after death (if > 45 minutes)	<2.5ho <2.5hours								
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								
Eyes	Elsewhere								
	Exophthalmic								
	Enophthalmic (sunken)								
Gills	Cataract								
	Haemorrhagic								
	Pale								
Lesions	Zoned								
	Necrotic								
	Flank								
Vent	Elsewhere								
	Inflamed								
Lice Load	Trailing faeces								
	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)								
Pyloric caeca	Granulomas								
	Lesions								
	Petechial haem								
	Tubules mauve								
Spleen	Lack of fat								
	Enlarged								
Gut	Granulomas								
	No food present								
	Yellow pseudo-faeces								
	External haem								
Body wall	Internal haem								
	Haemorrhaging								
	Haemorrhaging								
Swim bladder	Fluid filled								
	Swollen								
Kidney	Grey								
	Granular								
	Liquefied								
General	Parasites present								
	Anaemia								

Additional comments:

Great British Prawns Ltd
Farm 1
Claylands
Balfron
G63 0RR

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	SB0542	DATE OF VISIT	16/07/2019
SITE No	SS0923	SITE NAME	Balfron Production Unit
INSPECTOR		CASE No	20190341

Section 1: Summary

Following a report of positive test results for infectious hypodermal and hematopoietic necrosis virus (IHHNV) from samples taken from Balfron Production Unit the site was visited. Animals were collected and returned to the Marine Scotland laboratory for diagnostic sampling.

Results from the samples confirmed the presence of IHHNV at Balfron Production Unit.

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

Following a report from Great British Prawns Ltd of positive test results for infectious hypodermal and hematopoietic necrosis virus (IHHNV) from samples taken from Balfron Production Unit the site was visited. Staff reported that all the animals had been imported from Texas, USA in April, placed in Balfron Hatchery and subsequently moved into the production site. The population had not been growing well and there was a huge variation in size. Following the report of IHHNV in Texas it was decided by site operators to test the population for the disease. This proved positive and Marine Scotland Science was informed.

At the time of the visit site staff were in the process of culling all stocks at the production unit. One tank was left and was to be culled that day. Approximately 100 animals were removed from the tanks and placed in a large bag with water and an air reservoir. Ice packs were placed underneath to reduce the water temperature. It was considered that they would remain alive for the two hour journey back to the Marine Scotland laboratory in Aberdeen where they would be sampled. Unfortunately all the animals were dead on arrival. Samples were taken from 30 animals for diagnostic examination. No clinical signs of disease were observed.

R09

Samples

Samples were collected from 30 shellfish according to the table below:

Shellfish number	Pool number	Species	Stage	Origin
1-30	1-30	Whiteleg Shrimp, <i>Litopenaeus vannamei</i>	0.1g	Texas, USA

Results

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

All 30 samples were initially tested by the OIE recommended PCR. Of these 24 out of 30 were positive. Two of the strongest PCR samples (9 and 12) were sequenced and confirmed to be Decapod penstyldensovirus 1 (IHNV). A further primer set also confirmed the result by sequencing from a different region of the genome for confirmation of the initial positive.

Histology: Samples of the cephalothorax were taken from 30 shellfish and fixed in 10% neutral buffered formalin. Histopathological examination revealed the following:

No clear cases of IHNV observed (no Cowdry type A inclusion body). Samples from shellfish 7, 8 and 9 showed isolated nuclei which may have contained putative IHNV inclusions but not conclusive and would need confirmation by other testing methods. Samples were not well fixed (depicted most obviously by the degeneration of the hepatopancreas) making reading difficult in most of the slides. The degeneration of the hepatopancreas may have been a result of the animals being dead when they arrive at the laboratory for sampling.

Signed:



Fish Health Inspector

Date: 26/08/2019

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 M-36

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:

Due to the remote location of the site and accessibility the visit was agreed the previous week.

Fish sampled for VMD appeared healthy.

Case No: **2019-0347** Site No: **FS0241**

Date of Visit: **24/07/2019** 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	8		Facilities stocked	3		No facilities inspected	2	
Species	SAL	LUM	WRS					
Age group	2018 Q1	2018	Mixed					
No Fish	82,706	20,000	2,500					
Mean Fish Wt	5.8kg	150g	Mixed					
Next Fallow Date (Site)	Sep-19		Next Input Date (Site)	November 2019				

Recent (last 4 wks) disease problems? **Y** Any escapes (since last visit)? **N**
 If yes, detail: **CMS and PD, however currently not causing mortality.**

Movement Records

- 1. Movement records available for inspection? **Y**
- 2. Date of last inspection: **30/04/2019**
- 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)? **[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? **Whole fish - Dundas Chemicals**
- If other detail: **[Redacted]**
- 3. Mortality records complete and correctly entered? **Y**
- 4. Recent mortality (last 4 wks): **SAL: wk26 564 morts 0.4%, wk27 251 morts 0.3%, wk28 304 0.3%, wk29 323 morts 0.3% Cleaner fish: 1.6% per Cage for July**
- 5. Evidence of recent increased/atypical mortalities? **N**
- If yes, facility nos/no mortality per facility/no stock per facility/reason: **[Redacted]**

- 6. Any other peaks in mortality during period checked? **Y**
- If yes, detail: **SAL: w/b 3 June 0.5% attributed 1072 morts mostly attributed to hydrolicer treatment and CMS; Cleanerfish: 4.96% pen 6 in May 2019, increased in all pens that month possibly due to harvesting and handling activities on site.**
- 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.	
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"/>
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: 30/4/19 - 24/7/19

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										
Pool Group												
Species	SAL	SAL										
Average weight	5.8kg	5.8kg										
Sex	N/A	N/A										
Water Type	SW	SW										
Stock Details												
		Loch Leven	Loch Leven									
Stock Origin												
Facility No	6	5										

Site No: FS0241
Case No: 2019-0347
Nature of non-compliance:
Action taken (FHI):
Non-compliance relevant to (delete): VirologyMolGen/Bacteriology/Histology/Parasitology



[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	24/07/2019
SITE No	FS0241	SITE NAME	Kingairloch
INSPECTOR	[REDACTED]	CASE No	20190347

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

The above site was visited in accordance with the Animals and Animal Products (Examination for Residues and Maximum Residue Limits) (England and Scotland) Regulations 2015.

Samples were taken to be analysed for veterinary residues.

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

Medicine records were inspected and found to be adequately maintained.

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]

Fish Health Inspector

Date: 29/07/2019

R20

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

R20

Marine Laboratory, 375 Victoria Road, Aberdeen, AB11 9DB
Tel - 0131 244 3498 Fax - 0131 244 0944 Email - ms.fishhealth@gov.scot
Website - www.gov.scot/Topics/marine/science

Case No: 2019-0352 Date of visit: 21/07/2019

Time spent on site: 1 hour Main Inspector:

Site No: FS0575 Site Name: Ormsary Smolt Unit

Business No: FB0061 Business Name: Landcatch Natural Selection Ltd

Case Types: 1 MOV 2 3 4 5 6

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

Observations: Region: ST Water type: F CoGP MA

Dead/weak/abnormally behaving fish present? N If yes, see additional information/clinical score sheet.

Clinical signs of disease observed? N If yes, see additional information/clinical score sheet.

Gross pathology observed? N If yes, see additional information/clinical score sheet.

Diagnostic samples taken? N

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

Additional Case Information:

One tank inspected. E5, the tank containing the fish for export. No moribund fish observed in this tank. 21601 fish in tank at average weight of 28g.

Morts for E5; 2 over last week.- one of these attributed to fungus. Morts across E tanks low in past week. Peaked in E23; 43 fish/day/tank attributed to fungus and E4; 58/day fungus. Generally 0-20/tank/day attributed to fungus.

Weekly morts across site; Wk28; 0.29% 6787 - post grading fungus, wk27; 0.15% 3546 fish, wk26; 0.009% 2302 fish, wk25; 0.06% 1472 fish.

trial in treatment for fungus, halimid, formalin and Cress.

Export of 315 salmon parr to Wageningen uni Netherlands. Transported by Solway transport in pick-up truck with tank on back. Pick-up truck inspected as C&D and certificate of disinfection also inspected.

* Number of fish on site estimated as computer access was not available during visit.

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="108"/>	Facilities stocked	<input type="text" value="88"/>	No facilities inspected	<input type="text" value="1"/>
Species	<input type="text" value="sal"/>				
Age group	<input type="text" value="fry to parr"/>				
No Fish	<input type="text" value="5 million *"/>				
Mean Fish Wt	<input type="text" value="5g to 40g"/>				
Next Fallow Date (Site)	<input type="text" value="none planned"/>	Next Input Date (Site)	<input type="text" value="jan 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 (outwit 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).	Very low costia in Feb. Saprolegnia in smolts.	

Records checked between: Feb. 2019- 21/7/19

Landcatch Natural Selection Ltd
Ormsary Fish Farm
Lochgilphead
Argyll
PA31 8PE

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0061	DATE OF VISIT	21/07/2019
SITE No	FS0575	SITE NAME	Ormsary Smolt Unit
INSPECTOR		CASE No	20190352

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 Atlantic salmon parr for placing on the market in The Netherlands 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: 22/07/2019

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="2019-0359"/>	Date of visit:	<input type="text" value="30/07/2019"/>			
Time spent on site:	<input type="text" value="1hr"/>	Main Inspector:	<input type="text" value=""/>			
Site No:	<input type="text" value="SS0548"/>	Site Name:	<input type="text" value="Lamb Holm"/>			
Business No:	<input type="text" value="SB0553"/>	Business Name:	<input type="text" value="Orkney Shellfish Hatchery (OSH) Ltd"/>			
Case Types:	1 <input type="text" value="ECI"/>	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="14"/>	Thermometer No:	<input type="text" value="Site"/>	FHI 045 completed	<input type="text" value="N"/>	
Observations:	Region:	OR	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:

Broodstock in fibreglass pools until they spawn, when they are moved across to hatchery trays.

Site has not yet moved any stock off site, but hopes to be moving 1 million larvae between 5-10mm to the Dornach Firth as part of the restocking project. The number of movements off will be dependent on the production levels on site, but site manager suspects there will be at least 3 movements off per year.

Site has only had 1 mortality since input. Individual was frozen. No waste has left the site yet. As the weekly waste for the site will most likely be <25kg, the site manager was advised to contact the local council to enquire about domestic waste disposal going forward.

Site thermometer used due to biosecurity concerns.

Inspection conducted by [REDACTED] under [REDACTED] supervision.

Case No: **2019-0359** Site No: **SS0548**
 Date of Visit: **30/07/2019** Inspector(s): **[Redacted]**

Registration/Authorisation Details

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

Site Details

	20 Trays, 1 Hatchery	Facilities stocked	7 Trays, 1 Hatchery	No facilities inspected	20 Trays, 1 Hatchery
Total No facilities					
Species	OED				
Age group	2017	2019			
No Fish	175	65			
Mean Fish Wt	140g	10g			
Next Fallow Date (Site)	No plan.		Next Input Date (Site)	TBC	

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: **1st Inspection**
 3. Are records complete and correctly entered? **Y**
 4. Are movement records available for dead fish and waste? **N/A**
 5. Are records complete and correctly entered? **N/A**
 6. Are health certificates for introductions (outwith GB) available? **N/A**

Transport Records

1. Are any movements carried out by (or on behalf) of the business (not using a STB)? **[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? **Other (detail)**
 If other detail: **See additional comments.**
 3. Mortality records complete and correctly entered? **Y**
 4. Recent mortality (last 4 wks): **1 individual broodstock mortality since input.**
 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/A**
 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)?	
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: 1st Inspection

Orkney Shellfish Hatchery (OSH) Ltd
The Lobster Ponds
Lamb Holm
Orkney
KW17 2SF

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	SB0553	DATE OF VISIT	30/07/2019
SITE No	SS0548	SITE NAME	Lamb Holm
INSPECTOR		CASE No	20190359

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 high. An inspection under the Aquatic Animal Health (Scotland) Regulations 2009 will be conducted annually. 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 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: 06/08/2019

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