FHI 059, Version 12		Issued by: FHI		Date of issue: 08/10/2018				
Case No: 2019-0614				Date of visit: 29/10/2019				
Time spent on site:	ır	M	ain Inspector:					
Site No: SS0874 Business No: SB0533	Site Name: Business Name:	Garbh Lingeigh Traigh Mhor Oyste	ers					
Case Types: 1 ECI 2	3	4 5	5	6				
Water Temp (°C): 10.2	Thermometer No:	T152]	FHI 045 completed N				
Observations:	Region: WI	Water type:	S	CoGP MA				
Dead/weak/abnormally behaving fish present? Clinical signs of disease observed? Gross pathology observed? Diagnostic samples taken? N If yes, see additional information/clinical score sheet. N If yes, see additional information/clinical score sheet. N N								
UNI/REG only - if unable to carry out intended visit detail reason below:								

No mortality records maintained. However, if the site observed a higher than expected mortality (see below), this would be reported and investigated.

3-7mm >35%

7-14mm >15%

5g-25g >2-5%

25g-market size >2-5%

Site received stock from both Guernsey and Morcambe Bay in 2017. Manager is satisfied with both stocks and has had no issues with either.

Seed received next Spring (2020) is planned to be sourced from Morcambe Bay only.

SS numbers missing from movement book. Discussed with site manager who agreed to include going forward. No further action required.

Inspection and paperwork completed by under supervision.

FHI 059, Version 12			Issu	ued by: FHI			Date of issu	ie: 08/10/2018
Case No:	2019-0614		Site No:	SS0874	1			
Date of Visit:		29/10/2019	9		Inspector(s):]
Registration/Authornamental 1. Business/site deta 2. Changes made to	ails summary		site representa	ative?			Y Y	- -
Site Details								
Total No facilities		6 rafts	Facilities sto	ocked	2	No facilitie	es inspected	6
Species	CGI	CGI						
Age group	2019	2018						
No Fish	400,000	113,000						
Mean Fish Wt	5-20g	25-40g						
Next Fallow Date (S	ite)	No plan.		Next Input Da	ate (Site)	April 2020		
Recent (last 4 wks) disease problems? N Any escapes (since last visit)? N If yes, detail:								N
Movement Records								
 Movement record Date of last inspe Are records comp Are movement re Are records comp Are records comp Are health certific 	s available fo ction: blete and corr cords availab blete and corr	ectly entered le for dead fis ectly entered	? sh and waste? ?				15/08/2018	Y Y N/A N/A Y
Transport Records 1. Are any movement of the second secon	nts carried ou			•	_			
Mortality Records								
Mortality records								Y
2. How are mortalitie					Other (deta			
If other detail:	Empty shells	s are taken u	o to owners he	ouse, crushed	and used to t	rill potholes o	n local roads.	. N/A
 Mortality records Recent mortality (•	correctly en		, absorved				IN/A
Evidence of recer	•	t miss! morts	No mortality	observed.				N
If yes, facility nos/no		* 1		//reason:				IN
ii yes, lacility 1103/110	mortality per	racility/110 3t	ock per racility	meason.				
6. Any other peaks i	n mortality du	ring period c	hecked?					N
If yes, detail:				. 51116				
7. Have increased (unexplained)	mortalities be	en reported to	o vet or FHI?				N/A
If yes, detail action:	ente' hoon ro	ported to EU	2 If no odd N	ART case and	enter on mor	tality ovente	sheet	N/A
8. Have 'mortality ev	ents been re	ported to FH	i: ii iio, add iv	introduce and	enter on mon	iality events	SHEEL.	IN/A

FHI 059, Version 12	Issued by: FHI	Date of issue: 08/10/2018
Recent treatments (last 4 wks)? If you detail:		
If yes, detail: If other, detail:		
Medicines records available for inspec	ction?	
Are records complete and correctly er		
4. Are fish in a withdrawal period?		
5. If yes, what treatment(s)?		
If other, detail:		
6. Are medicines stored appropriately?		
Biosecurity Records		
Biosecurity records available for insper	ection?	Y
•	rtality removal, recording and safe disposal been	considered?
3. Has the manner and period in which the	he APB will notify Scottish Ministers or veterinary	y professional of any
increased (unexplained) mortality at the	site been included?	Y
	e event that the presence or suspicion of the pres	sence of a listed disease Y
	when that will be notified to Scottish Ministers?	
•	animals being stocked on the farm site been cove	ered (equal or higher Y
health status, certification if required)?		
6. Have the husbandry and hiosecurity m	neasures implemented between each epidemiolo	ogical unit to minimise
•	novement of staff, visitors, equipment, live or de	
·	the measures in place to maintain the physical c	
aquaculture animals held on site?	, , , , , , , , , , , , , , , , , , ,	
8. Have the biosecurity procedures been	adequately implemented on site?	Y
If no, detail:		
Results of Surveillance		
1. Has any animal health surveillance be	een carried out by, or on behalf of, the business?	N

2. If yes, are results available for inspection?

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

Records checked between:

3. Any significant results?

15/08/18 - 29/10/19

Total Risk

Case No:	2019-0614			Date of visit:	29/10/2019			
Site No:	SS0874			Inspector:				
Results Summary	Freq.				te of Notificat			
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp
Report Summary								
Case Type	Date	Insp	2 nd Insp					
ECI	01/11/2019							





Traigh Mhor Oysters 27a Eoligarry Isle of Barra HS9 5YD

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

Business NoSB0533Date of Visit29/10/2019Site NoSite NameGarbh LingeighInspectorCase No20190614

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.

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

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

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

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



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

Date: 07/11/2019

Issue	ed by: FHI		Date of issue: 08/1	0/2018				
		[Date of visit: 29/10/2019	Ð				
hr	Ма	in Inspector:]				
Site Name: Business Name:	Loch na H-Obbe Traigh Mhor Oysters	s		\equiv				
2 3	4 5	$\overline{}$	6					
Thermometer No:		F	FHI 045 completed	N				
Region: WI	Water type:	S	CoGP MA					
Dead/weak/abnormally behaving fish present? Clinical signs of disease observed? Gross pathology observed? Diagnostic samples taken? If yes, see additional information/clinical score sheet. If yes, see additional information/clinical score sheet.								
Site unaccessable at time	of inspection. Site al	so fallow.						
	hr Site Name: Business Name: 2	Site Name: Business Name: Traigh Mhor Oysters Thermometer No: Region: WI Water type: If yes, see addiding yes, see addiding yes, see addiding out intended visit detail reason below:	Site Name: Business Name: Traigh Mhor Oysters Thermometer No: Region: WI Water type: S If yes, see additional information of the second	Date of visit: 29/10/2019 Main Inspector: Site Name: Business Name: Traigh Mhor Oysters 2 3 4 5 6 FHI 045 completed Region: WI Water type: S CoGP MA fish present? d? If yes, see additional information/clinical score sheet. If yes, see additional information/clinical score sheet. If yes, see additional information/clinical score sheet. Out intended visit detail reason below:				

Site fallow. No plans to use currently, but site owner wishes to keep site active.

Inspection and paperwork completed by under supervision.

FHI 059, Version 12			Issu	ued by: FHI			Date of issu	ue: 08/10/2018
Case No:	2019-0615]	Site No:	SS0858	3			
Date of Visit:		29/10/2019)		Inspector(s)):]
Registration/Authornamental 1. Business/site deta 2. Changes made to	ails summary		site representa	ative?			Y N	-
Site Details								
Total No facilities		1 raft	Facilities sto	cked	0	No facilitie	es inspected	0
Species	N/A							
Age group	N/A							
No Fish	N/A							
Mean Fish Wt	N/A							
Next Fallow Date (S	ite)	Site fallow.		Next Input Da	ate (Site)	No plan.		
Recent (last 4 wks)	disease prob	lems?		N/A	Any escape	es (since last	visit)?	N/A
If yes, detail:	uisease probi	CIIIS:		107	Ally escape	S (SILICE IASE	VISIL):	IN/A
Movement Records	s							
Movement record		r inspection?						Y
2. Date of last inspe		i iii.					15/08/2018	
3. Are records comp		ectly entered	?					N/A
4. Are movement re		•		,				N/A
5. Are records comp								N/A
6. Are health certific		•		able?				N/A
Transport Records	,							
1. Are any movemen		t by (or on be	half) of the bu	usiness (not us	ing a STB)?			
If yes, is there a sys				•	_			
Mortality Records								
1. Mortality records	available for i	nspection?						N/A
2. How are mortalitie								
If other detail:								
3. Mortality records	complete and	correctly ent	ered?					N/A
4. Recent mortality ((last 4 wks):							
5. Evidence of recer	nt increased/a	atypical morta	lities?					N/A
If yes, facility nos/no				/reason:				
6. Any other peaks i	in mortality du	ring period c	hankad?					N/A
If yes, detail:	Il Illortanty da	illig period or	leckeu:					147
7. Have increased (unexplained)	mortalities be	en reported to	o vet or FHI?				N/A
If yes, detail action:								
8. Have 'mortality ev	vents' been re	ported to FHI	? If no, add N	IRT case and e	enter on mor	tality events	sheet.	N/A

FHI 059, Version 12	Issue	ed by: FHI	Date of issue	e: 08/10/2018
1. Recent treatments (last 4	wks)?			
If yes, detail: If other, detail:				
Medicines records availab	le for inspection?			
3. Are records complete and	•			
4. Are fish in a withdrawal pe	•			
5. If yes, what treatment(s)?				
If other, detail:				
6. Are medicines stored appr	ropriately?			
Biosecurity Records				
Biosecurity records availal	ble for inspection?			
•	iency of mortality removal, recor	ding and safe disposal be	en considered?	
3. Has the manner and perio	d in which the APB will notify Sc	ottish Ministers or veterin	ary professional of any	
increased (unexplained) mo	rtality at the site been included?			
	taken in the event that the prese			
	nd how and when that will be not			
	quaculture animals being stocke	d on the farm site been o	overed (equal or higher	
health status, certification if r	equirea)?			
6. Have the husbandry and b	piosecurity measures implemente	ed between each epidemi	iological unit to minimise	
•	n covered (movement of staff, vi	•	_	
7. Is documentation available	e regarding the measures in place	ce to maintain the physica	Il containment of	
aquaculture animals held on	site?			
	edures been adequately impleme	ented on site?		
If no, detail:				
Results of Surveillance				
1. Has any animal health sur	veillance been carried out by, or	on behalf of, the busines	s?	

2. If yes, are results available for inspection?

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

Records checked between:

3. Any significant results?

15/08/18 - 29/10/19

Date of issue: 08/10/2018 FHI 059, Version 12 Issued by: FHI Case Number: 2019-0615 Site No: SS0858 Date of Visit 29/10/2019 Inspector: Number of Susceptible species on site If no susceptible species present = LOW risk If susceptible species present, score for each pathogen Yes No 25 Susceptible to Bonamia ostrea (OED) 0 Susceptible to Marteilia refringens (OED, MED) 0 3 Susceptible to OsHV (CGI) 0 3 1 2-5 >6 Sites within a tidal excursion Site contacts Number of sites holding susceptible species within a tidal 10 excursion 0 2 10 Live shellfish movements 0 1-2 >3 Frequency of movements on from equivalent MS O 10 Movements on Frequency of movements on from equivalent zone or compartment including third country 0 10 20 n Number of suppliers 0 5 10 0 Movements off Frequency of movements off within MSS Management 0 1 2 0 Frequency of movements off outwith MSS Management 0 0 3 6 Areas 0 3 Number of destinations **Secure** Unsecure Management (effluent (no effluent treatment) practices None treatment) Water contacts with Depuration of stock from own sites within MSS depuration facilities management area 0 2 0 Depuration of stock from other businesses sites within 0 2 6 0 MSS management area Depuration of stock from sites outwith MSS management 0 8 0 area Number of sites 2 or 3 > 4 **Biosecurity** Contacts with other Sites operating from single shorebase Sites sharing staff and equipment sites Yes No Disinfection of equipment between sites, use of footbaths etc 0

Total Risk

Results Summary Freq. Date of Notification Database Insp Phone Insp Writing Insp 2 nd Insp	Case No:	2019-0615	Date of visit: 29/10/2019							
	Site No:	SS0858]	Inspector:						
	Results Summary	Freq.		Date of Notification						
			Database	Insp				Insp	2 nd Insp	
Ponort Summany	Poport Cummon				1					
Report Summary Case Type Date Insp 2 nd Insp	Coop Tyme	Data	lnen	ond .						
Case Type Date Insp 2 nd Insp	Case Type			2" Insp						
REG 01/11/2019	REG	01/11/2019								
		+								
		+								
		+								
		+		-						
		+								
		+								
		+								





Traigh Mhor Oysters 27a Eoligarry Isle of Barra HS9 5YD

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

 Business No
 SB0533
 Date of Visit
 29/10/2019

 Site No
 Site Name
 Loch na H-Obbe

 Inspector
 Case No
 20190615

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

The above business 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.

On this occasion, the site was reported to be fallow.

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.

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

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



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

Date: 07/11/2019

FHI 059, Version 12		Issued by: FHI		Date of issue: 08/10/2018				
Case No: 2019-0616			Date o	of visit: 29/10/2019				
Time spent on site:	r	Ma	in Inspector:					
Site No: SS0798 Business No: SB0533	Site Name: Business Name:	Sounds of Barra Traigh Mhor Oyster	s					
Case Types: 1 ECI 2	3	4 5	6	\Rightarrow				
Water Temp (°C): 10.2	Thermometer No:	T152	FHI 04	15 completed N				
Observations:	Region: WI	Water type:	S Co	GP MA				
Dead/weak/abnormally behaving to Clinical signs of disease observed Gross pathology observed? Diagnostic samples taken?	•	N If yes, see add	itional information/	clinical score sheet. clinical score sheet. clinical score sheet.				
UNI/REG only - if unable to carry out intended visit detail reason below:								

No mortality records routinely maintained. However, if the site observed a higher than expected mortality (see below), this would be reported and investigated.

3-7mm >35%

7-14mm >15%

5g-25g >2-5%

25g-market size >2-5%

Recent bad weather resulted in several trestles (a total of 42 bags) to sink into the sand, smothering the oysters. This has been attributed to the sudden observed rise in empty shells in the affected bags. Site manager is expecting 100% mortality in the affected bags but won't know until the site has been graded. Although empty shells were observed in these bags, no clinical signs of disease were observed, so no samples were taken.

SS numbers missing from movement book. Discussed with site manager who agreed to include going forward. No further action required.

Inspection and paperwork completed by under supervision.

FHI 059, Version 12	2 Issued by: FHI Date of issue							e: 08/10/2018
Case No:	2019-0616		Site No:	SS0798				
Date of Visit:		29/10/2019]		Inspector(s):]
Registration/Autho 1. Business/site deta 2. Changes made to	ails summary		ite representa	ative?			Y Y]
Site Details								
Total No facilities		150	Facilities sto	cked	150	No facilities	s inspected	150
Species	CGI	CGI						
Age group	2019	2018						
No Fish	400,000	20,000						
Mean Fish Wt	5-20g	60-70g						
Next Fallow Date (S	ite)	No plan.		Next Input Da	te (Site)	April 2020		
Recent (last 4 wks) of the second (last 4 wks) o	disease probl	ems?		N	Any escapes	(since last \	visit)?	N
Movement Records 1. Movement record 2. Date of last inspecial. Are records computed Are movement records. Are records computed 6. Are health certifications.	s available fo ction: olete and corro cords availab olete and corro	ectly entered? le for dead fis ectly entered?	h and waste?				19/10/2016	Y N/A N/A
Transport Records								
 Are any movement If yes, is there a syst 			•	•	_			
Mortality Records								
1. Mortality records	available for i	nspection?						Y
2. How are mortalitie	es disposed o	f?			Other (detail)			
				ouse, crushed a	and used to fill	l potholes.		
3. Mortality records	•	correctly ente						N/A
4. Recent mortality (last 4 wks):		No count ava	ailable until sto	ck has been g	raded.		
5. Evidence of recer		• •						Y
If yes, facility nos/no								
Recent bad weather increase in empty sh		ome trestles (total of 42 bag	gs affected) to	sink and be si	mothered in	sand, causin	ng an
6. Any other peaks in		ring period ch	ecked?					N
If yes, detail:								
7. Have increased (u	inexplained)	mortalities be	en reported to	vet or FHI?				N/A
If yes, detail action:								
8. Have 'mortality ev	ents' been re	ported to FHI	? If no, add M	IRT case and e	enter on morta	lity events s	heet.	N/A

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

2. If yes, are results available for inspection?

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

Records checked between:

3. Any significant results?

19/10/16 - 29/10/19

Date of issue: 08/10/2018 FHI 059, Version 12 Issued by: FHI Case Number: 2019-0616 Site No: SS0798 Date of Visit 29/10/2019 Inspector: Number of Susceptible species on site If no susceptible species present = LOW risk If susceptible species present, score for each pathogen Yes No 25 Susceptible to Bonamia ostrea (OED) 0 Susceptible to Marteilia refringens (OED, MED) 0 3 Susceptible to OsHV (CGI) 0 3 1 2-5 >6 Sites within a tidal excursion Site contacts Number of sites holding susceptible species within a tidal 10 excursion 0 2 10 Live shellfish movements 0 1-2 >3 Frequency of movements on from equivalent MS O 5 10 Movements on Frequency of movements on from equivalent zone or compartment including third country 0 10 20 Number of suppliers 0 5 10 0 Movements off Frequency of movements off within MSS Management 0 1 2 2 Frequency of movements off outwith MSS Management 0 6 3 6 Areas 0 3 Number of destinations **Secure** Unsecure Management (effluent (no effluent treatment) practices None treatment) Water contacts with Depuration of stock from own sites within MSS depuration facilities management area 0 2 0 Depuration of stock from other businesses sites within 0 2 6 0 MSS management area Depuration of stock from sites outwith MSS management 0 8 0 area Number of sites 2 or 3 > 4 **Biosecurity** Contacts with other Sites operating from single shorebase Sites sharing staff and equipment sites Yes No Disinfection of equipment between sites, use of footbaths etc 0

Total Risk

Case No:	2019-0616	Date of visit: 29/10/2019						
Site No:	SS0798	Inspector:						
Results Summary	Freq.			Da	te of Notificat	tion		
	·	Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp
Report Summany	1							
Report Summary Case Type	Data	Inon	ond .					
Case Type	Date 05/11/2010	Insp	2 nd Insp					
ECI	05/11/2019							
			-					





Traigh Mhor Oysters 27a Eoligarry Isle of Barra HS9 5YD

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

Business NoSB0533Date of Visit29/10/2019Site NoSS0798Site NameSounds of BarraInspectorCase No20190616

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.



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

Date: 07/11/2019

FHI 059, Version 12		Issued by: FHI		ssue: 08/10/2018				
Case No: 2019-0617			Date of visit:	29/10/2019				
Time spent on site:	r	Maii	n Inspector:					
Site No: SS0913 Business No: SB0533	Site Name: Business Name:	Ard Mhor Traigh Mhor Oysters						
Case Types: 1 ECI 2	3	4 5	6					
Water Temp (°C): 10.2	Thermometer No:	T152	FHI 045 comple	ted N				
Observations:	Region: WI	Water type:	S CoGP MA					
Dead/weak/abnormally behaving fish present? Clinical signs of disease observed? Gross pathology observed? Diagnostic samples taken? N If yes, see additional information/clinical score sheet. N If yes, see additional information/clinical score sheet. N If yes, see additional information/clinical score sheet.								
UNI/REG only - if unable to carry out intended visit detail reason below:								

No mortality records maintained. However, if the site observed a higher than expected mortality (see below), this would be reported and investigated.

3-7mm >35%

7-14mm >15%

5g-25g >2-5%

25g-market size >2-5%

Site received stock from both Guernsey and Morcambe Bay in 2017. Manager is satisfied with both stocks and has had no issue Seed received next Spring (2020) is planned to be sourced from Morcambe Bay only.

SS numbers missing from movement book. Discussed with site manager who agreed to include going forward. No further action required.

Inspection and paperwork completed by under supervision.

Date of Visit: 29/10/2019 Registration/Authorisation Details 1. Business/site details summary checked by site representative? 2. Changes made to details? Site Details Total No facilities Species Species Species 2018 Age group No Fish 175,000 Mean Fish Wt 30-60g Next Fallow Date (Site) No plan. Next Input Date (Site) 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? 4. Are movement records available for dead fish and waste? 5. Are records complete and correctly entered? 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: Empty shells are taken up to owners house, crushed and used to fill potholes. 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: If yes, detail: Notality reports available for inspection? NA NA NA NA NA NA NA NA NA N	FHI 059, Version 12	lssued by: FHI Date of iss						Date of issu	ie: 08/10/2018
Registration/Authorisation Details 1. Business/site details summary checked by site representative? 2. Changes made to details? Total No facilities Species	Case No:	2019-0617]	Site No:	SS0913				
1. Business/site details summary checked by site representative? 2. Changes made to details? Total No facilities Species Species Species Age group 2018 No Fish 175,000 Mean Fish Wt 30-60g Next Fallow Date (Site) No plan. Next Input Date (Site) April 2020. Recent (last 4 wks) disease problems? 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. Movement 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? Other (detail) If other detail: Smythelis are taken up to owners house, crushed and used to fill potholes. 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? N/A If yes, detail action:	Date of Visit:		29/10/2019]		Inspector(s):]
Total No facilities Z30 trestles Facilities stocked Z00 No facilities inspected Z30 Species Z018 Z	1. Business/site deta	ails summary		ite representa	ative?			Y N	- -
Species Age group 2018 No Fish No Fish No Fish No Fish Near Fish Wt 30-60g Near Hish Wt Age and the special sear of the special search special sea	Site Details								
Age group No Fish No Fish 175,000 Mean Fish Wt Next Fallow Date (Site) No plan. Next Input Date (Site) No plan. Next Input Date (Site) April 2020. Recent (last 4 wks) disease problems? No plan. Next Input Date (Site) No plan. Next Input Date (Site) April 2020. Recent (last 4 wks) disease problems? No plan. Next Input Date (Site) No plan. Next Input Date (Site) April 2020. Recent (last 4 wks) disease problems? No plan. Next Input Date (Site) No plan. Next Input Date (Site) April 2020. No plan. No plan. Next Input Date (Site) April 2020. No plan. No plan. Next Input Date (Site) April 2020. No plan. No plan. No plan. Next Input Date (Site) April 2020. No plan. No pl	Total No facilities		230 trestles	Facilities sto	cked	200	No facilitie	s inspected	230
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7. Have increased (unexplained) mortalities been reported to vet or FHI? N/A If yes, detail action:									
If yes, detail action:	• •								
•	\ 1 /								
b. Have mortality events been reported to Firit in his, add with Case and enter on mortality events sheet.									

FHI 059, Version 12	Issued by: FHI	Date of issue: 08/10/2018
1. Recent treatments (last 4 wks)?	?	
If yes, detail:		
If other, detail:		
2. Medicines records available for	inspection?	
3. Are records complete and corre	ectly entered?	
4. Are fish in a withdrawal period?		
5. If yes, what treatment(s)?		
If other, detail:		
6. Are medicines stored appropria	itely?	
Biosecurity Records		
Biosecurity records available for	r inspection?	Y
-	of mortality removal, recording and safe disposal bee	en considered?
	which the APB will notify Scottish Ministers or veterina	
increased (unexplained) mortality	•	Y
, ,		
4. Has the action that will be taken	n in the event that the presence or suspicion of the pro	esence of a listed disease Y
	w and when that will be notified to Scottish Ministers?	
5. Has the health status of aquacu	ulture animals being stocked on the farm site been co	vered (equal or higher
health status, certification if requir	ed)?	
6. Usus the husbandry and biosey	with was accurage implemented between each enidemic	Variant unit to miniming
	curity measures implemented between each epidemic ered (movement of staff, visitors, equipment, live or d	
	arding the measures in place to maintain the physical	
aquaculture animals held on site?	•	Containment of
•	es been adequately implemented on site?	Y
If no, detail:	o boott adoquately implemented on one.	
Results of Surveillance		
1 Has any animal health surveilla	nce been carried out by, or on behalf of, the business	s? N
1. Has any amin'al nealth surveilla	fice been carried out by, or on behalf or, the business	

2. If yes, are results available for inspection?

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

Records checked between:

3. Any significant results?

15/08/18 - 29/10/19

Date of issue: 08/10/2018 FHI 059, Version 12 Issued by: FHI Case Number: 2019-0617 Site No: SS0913 Date of Visit 29/10/2019 Inspector: Number of Susceptible species on site If no susceptible species present = LOW risk If susceptible species present, score for each pathogen Yes No 25 Susceptible to Bonamia ostrea (OED) 0 Susceptible to Marteilia refringens (OED, MED) 0 3 Susceptible to OsHV (CGI) 0 3 1 2-5 >6 Sites within a tidal excursion Site contacts Number of sites holding susceptible species within a tidal 10 excursion 0 2 10 Live shellfish movements 0 1-2 >3 Frequency of movements on from equivalent MS O 10 Movements on Frequency of movements on from equivalent zone or compartment including third country 0 10 20 n Number of suppliers 0 5 10 0 Movements off Frequency of movements off within MSS Management 0 1 2 2 Frequency of movements off outwith MSS Management 0 0 3 6 Areas 0 Number of destinations **Secure** Unsecure Management (effluent (no effluent treatment) practices None treatment) Water contacts with Depuration of stock from own sites within MSS depuration facilities management area 0 2 0 Depuration of stock from other businesses sites within 0 2 6 0 MSS management area Depuration of stock from sites outwith MSS management 0 8 0 area Number of sites 2 or 3 > 4 **Biosecurity** Contacts with other Sites operating from single shorebase Sites sharing staff and equipment sites Yes No Disinfection of equipment between sites, use of footbaths etc 0

Total Risk

Case No:	2019-0617	Date of visit: 29/10/2019							
Site No:	SS0913	Inspector:							
Results Summary	Freq.	Date of Notification							
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp	
Report Summary									
Report Summary Case Type	Date	Insp	2 nd Insp						
Case Type	01/11/2019		2 insp						
ECI	01/11/2019								
			—						
	 								





Traigh Mhor Oysters 27a Eoligarry Isle of Barra HS9 5YD

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

Business NoSB0533Date of Visit29/10/2019Site NoSS0913Site NameArd MhorInspectorCase No20190617

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.

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

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

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

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



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

Date: 07/11/2019

FHI 059, Version 12		Issued by: FHI	Date of issue: 08/10/2018				
Case No: 2019-0619			Date of visit: 22/10/2019				
Time spent on site:	.5 hours	Main I	nspector:				
Site No: FS0413 Business No: FB0119	Site Name: Business Name:	Camas Glas Mowi Scotland Ltd					
Case Types: 1 REP	2 VMD 3 DIA	4 5	6				
Water Temp (°C): 12.3	Thermometer No:	T147	FHI 045 completed				
Observations:	Region: HI	Water type: S	CoGP MA M-34				
Dead/weak/abnormally behaving fish present? Clinical signs of disease observed? Gross pathology observed? Diagnostic samples taken? If yes, see additional information/clinical score sheet. Y If yes, see additional information/clinical score sheet. Y If yes, see additional information/clinical score sheet. Y							
UNI/REG only - if unable to carry out intended visit detail reason below:							

Site inspected following report of increased mortality from business.

Site split into 2 separate cage groups, cages 1-8 and cages 9-16

Cages 2, 3, 4, 5, 6, 7, and 8 worst affected by mortality in recent weeks, all 2018 Q4 stock except cage 2 which is 2019 Q1. All those cages have been harvested out and are now fallow as of 18/10/2019, only cage 1 (2019 Q1) remains stocked in that cage group. Remaining stocked cages on site are being treated with antibiotic (Aquatet).

Several lethargic fish observed in cage 1, removed for diagnostic sampling.

Fish sampled for VMD appeared healthy.

FHI 059, Version 12			Issu	Issued by: FHI			Date of issue: 08/10/2018			
Case No:	2019-0619]	Site No:	FS0413						
Date of Visit:	22/10/2019 Inspector(s):									
Registration/Authorisation Details 1. Business/site details summary checked by site representative? 2. Changes made to details?										
Site Details										
Total No facilities		16	Facilities sto	cked	9	No facilities	s inspected	16		
Species	SAL	LUM	WRA							
Age group	2019 Q1	2019	2019							
No Fish	387,009	3,166	16,800							
Mean Fish Wt	1.8 kg	Mixed	Mixed							
Next Fallow Date (S	ite)	September 2	2020	Next Input Da	te (Site)	November	2020			
Recent (last 4 wks)	Recent (last 4 wks) disease problems? Y Any escapes (since last visit)?									
	Pasteurella				,	(,.			
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	available for i	nspection?						Y		
Mortality records available for inspection? Whole fish - Dundas Chemicals Y Whole fish - Dundas Chemicals										
	_		to Energen B	Biogas, Cumber		Danaas one	modio			
If other detail: Mortality waste also taken to Energen Biogas, Cumbernauld 3. Mortality records complete and correctly entered? w/b 23/09/19 - 1826 (0.2%), w/b 30/09/19 - 17,194 (2.58%), w/b 07/10/19 - 75,827 (10.38%), w/b 14/10/19 - 35,340 (3.44%) - mortalities attributed to										
4. Recent mortality (last 4 wks): pasteurella skyensis										
5. Evidence of recent increased/atypical mortalities?										
If yes, facility nos/no mortality per facility/no stock per facility/reason:										
w/b 30/09/19: cage 2 - 11056. w/b 07/10/19: cage 2 - 17900, cage 4 - 19130, cage 6 - 8900, cage 7 - 12530, cage 8, 10500. w/b 14/10/19: cage 2 - 1980, cage 4 - 2800, cage 5 - 9600, cage 6 - 4000, cage 8 10800.										
6. Any other peaks in mortality during period checked? N If yes, detail:										
7. Have increased (unexplained) mortalities been reported to vet or FHI?										
			•	tic prescribed.	Worst affecte	d cages hav	e been harve	ested out.		
If yes, detail action: 8. Have 'mortality ev	ents' been re	ported to FHI	? If no, add M	RT case and e	nter on morta	lity events s	heet.	Y		

2. Medicines records	s available for inspection?		Y
	lete and correctly entered?		Y
4. Are fish in a withd	rawal period?		Y
5. If yes, what treatm	nent(s)?	T.M.S., Oxytetracycline	
If other, detail:			
6. Are medicines sto	red appropriately?		Y
Biosecurity Record	ls.		
	ls available for inspection?		
•	•	ording and safe disposal been considered?	
	•	Scottish Ministers or veterinary professional of any	
	ned) mortality at the site been included	• •	
4. Has the action tha	at will be taken in the event that the pre-	sence or suspicion of the presence of a listed disease	
is detected been incl	luded and how and when that will be n	otified to Scottish Ministers?	
		red on the farm site been covered (equal or higher	
health status, certific	ation if required)?		
		nted between each epidemiological unit to minimise	
	· · · · · · · · · · · · · · · · · · ·	visitors, equipment, live or dead fish etc.)?	
		ace to maintain the physical containment of	
aquaculture animals		namtad an aita?	
If no, detail:	rity procedures been adequately implen	nented on site?	
ii iio, uetaii.			
Results of Surveilla	ance		
1. Has any animal he	ealth surveillance been carried out by,	or on behalf of, the business?	Υ
•	available for inspection?		Y
3. Any significant res	•		Y
	etailed under recent disease problems)		
• •	•	ortality attributed to pasteurella skyensis	
F	Records checked between:	25/04/2018 - 22/10/2019	

os, version 12							155	su c u by.	ГП			
se no:	2019-06	319	Site No:		FS0413					22/	10/2019	22/
ority samples:	VI		ВА		PA		MG		ig. HI		1	
ne sampling rts/ends:				0:00		Inspecto	or:				o. [17
vironmental conditions:	1	Indoors	2		3		4		5			
mmary samples	HIST	Υ	ВА	Υ	MG	Υ	VI	Υ	PA		Total Sa	mples
Fish/Pools - click												
ol/Fish No	F1	F2	F3	F4	F5	P1						
h nos	1	2	3	4	5	1-5	6	7	8	9		
ol Group	P1	P1	P1	P1	P1							
	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL		
erage weight	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000	1.8000	1.8000	1.8000	1.8000		
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
ater Type	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW		
	ochy	ochy	ochy	ochy	ochy	ochy	ochy	ochy	ochy	ochy		
	hL	hL	h L	hL	hL	hL	h	h L	hL	h L		
ock Origin	00	9	00	9	8	9	8	8	9	8		
cility No	1	1	1	1	1	I	1	11	14	16		
	prity samples: ne sampling rts/ends: vironmental conditions: mmary samples Fish/Pools - click ol/Fish No h nos ol Group ecies erage weight cutter Type	prity samples: VI The sampling	prity samples: VI The sampling and sampling arts/ends: Vironmental conditions: The sampling arts/ends: Vironmental conditions: The sampling arts/ends: Vironmental conditions: The sampling arts/ends: VI The sampling arts/ends: Indoors The sampling arts/ends: VI Th	se no: 2019-0619 Site No: 2019-0619 Site No: 2019-0619 Site No: 2019-0619 Site No: 2019-0619 Site No: 300:00	Site No:	Site No: FS0413 Site No: Site	Site No: FS0413 Site No: Site No: FS0413 Site No: Site No:	Site No: FS0413 FS0413	Date of Samplir Site No: FS0413 Date of Samplir Date of	Date of visit/ Sampling Date of visit/ Date of visit Date	Sie no:	Site No:

Total Tests assigned Total Tests assigned Total Tests assigned		,													
	10/2019	10/2019 Additional Sample Information:													
Total Tests assigned 3		BA-STORAGE - Kidney tissue in universals for pasteurella skyensis testing													
	6	6 Total Tests assigned 3													

FHI 059, Version 12 Issued by: FHI Date of issue: 08/10/2018 Method of killing: Percussive Case no: FS0413 2019-0619 Site No: Inspector(s): Sheet Relevant: Y Date of visit: 22/10/2019 S for strong presence: M for medium presence: W for weak presence F3 F4 Time sampled after death (if > 45 minutes) External Signs Behaviour Moribund Lethargic m m m m m Hanging vertical Spiralling Flashing Loss of equilibrium Body Dark Distended abdomen Scale Oedema Opercula Shortened Flared Haemorrhaging Throat Ventrum Base of fins Elsewhere Eyes Exophthalmic Enophthalmic (sunken) Cataract Haemorrhagic Gills Pale Zoned Necrotic Lesions Flank Elsewhere Vent Inflamed Trailing faeces Lice Load Estimate numbers Internal Signs Clear Ascites S Bloody Oedema In tissues Heart Pale/anaemic m m m m m Granulomas Deformed Liver Petechial haem m Gross haem Tissue breakdown Enlarged Colour number(s) Granulomas Lesions Pyloric caeca Petechial haem W W m W Tubules mauve Lack of fat Spleen Enlarged m m m Granulomas m Gut No food present Yellow pseudo-faeces S External haem Internal haem Haemorrhaging Body wall Swim bladder Haemorrhaging m m m W Fluid filled

Kidney

General

Swollen Grey Granular Liquefied

Anaemia

Parasites present

Case no: 2019-0619

Date of visit: 22/10/2019

C for etrong procon	nce: M for medium presence: W fo	ru.					
Fish Number	ice. W for medium presence. W fo	I W	_				
	er death (if > 45 minutes)						
External Signs	er death (ii > 45 illillidtes)						
Behaviour	Moribund						
Dellavioui	Lethargic						
	Hanging vertical						
	Spiralling						
	Flashing						
	Loss of equilibrium						
Body	Dark						
Dody	Distended abdomen						
	Anorexic						
	Scale Oedema						
Operaula	Shortened						
Opercula	Flared						
Haemorrhaging	Throat						
naemonnaging	Ventrum						
	Base of fins						
	Elsewhere						
Even							
Eyes	Exophthalmic Enophthalmic (sunken)						
	Cataract						
Gills	Haemorrhagic Pale						
GIIIS	Zoned						
Lasiana	Necrotic Flank	_					
Lesions			_				
Mand	Elsewhere						
Vent	Inflamed		_				
	Trailing faeces						
Lice Load	Estimate numbers		_				
Internal Signs							
Ascites	Clear						
0 1	Bloody		-				
Oedema	In tissues						
Heart	Pale/anaemic		_				
	Granulomas						
	Deformed		_				
Liver	Petechial haem						
	Gross haem		_				
	Tissue breakdown						
	Enlarged						
	Colour number(s)						
	Granulomas						
	Lesions						
Pyloric caeca	Petechial haem						
	Tubules mauve						
	Lack of fat						
Spleen	Enlarged						
	Granulomas						
Gut	No food present						
	Yellow pseudo-faeces						
	External haem						
	Internal haem						
Body wall	Haemorrhaging						
Swim bladder	Haemorrhaging						
	Fluid filled						
Kidney	Swollen						
	Grey						
	Granular						
	Liquefied						
General	Parasites present						
	Anaemia						

FHI 059, Version 12	Issued by: FHI	Date of issue: 08/10/2018
Additional comments:		
		1
		1
		1
		1

Case No: 2019-0619 Date of visit: 22/10/2019 Site No: FS0413 Inspector: Results Summary Freq. Date of Notification 2nd Insp Database Writing Insp Phone Insp Insp MG_IHN 01/11/2019 08/11/2019 05/12/2019 0/1 MG IPN 0/1 01/11/2019 08/11/2019 05/12/2019 MG ISA 0/1 01/11/2019 08/11/2019 05/12/2019 MG_SAV 05/12/2019 0/1 01/11/2019 08/11/2019 05/12/2019 MG_VHS 0/1 01/11/2019 08/11/2019 BACT VSPE 5/5 05/12/2019 08/11/2019 08/11/2019 BACT_NSIG 05/12/2019 3/5 08/11/2019 08/11/2019 5/5 05/12/2019 BACT PASS 08/11/2019 08/11/2019 HIST SPAT 5/5 25/11/2019 25/11/2019 05/12/2019 HIST_AMGD 1/5 25/11/2019 25/11/2019 05/12/2019 HIST CGDH 3/5 25/11/2019 05/12/2019 25/11/2019 HIST EPIT 1/5 25/11/2019 25/11/2019 05/12/2019 HIST_GPAT 25/11/2019 05/12/2019 3/5 25/11/2019 4/5 HIST_KPAT 25/11/2019 05/12/2019 25/11/2019 HIST PMCH 5/5 25/11/2019 25/11/2019 05/12/2019 05/12/2019 3/5 25/11/2019 25/11/2019 HIST_PASS Report Summary 2nd Insp Case Type Date Insp REP, VMD 01/11/2019 DIA 05/12/2019





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 SITE NO FS0413 INSPECTOR DATE OF VISIT 22/10/2019
SITE NAME Camas Glas
CASE NO 20190619

Section 1: Summary

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

Histopathology examination revealed mild multifactorial gill pathology which included the presence of amoebic cells suggestive of amoebic gill disease, occasional epitheliocystis was also observed. Mild nephritis and splenitis was noted, likely associated with the presence of bacteria suspected to be *Pasteurella skyensis*. The presence of *Pasteurella skyensis* was confirmed by bacterial isolation and molecular genetic speciation, the level and purity suggest this bacterium would be implicated in fish morbidity. *Vibrio* sp. was also identified.

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

Section 2: Case Detail

Observations

The above site was inspected following a report of increased mortality by the business. Inspection of records on site showed mortality levels of 2.58%, 10.38% and 3.44% for the previous three weeks respectively. Increased mortality was attributed to *Pasteurella skyensis*, with the majority of mortalities occurring in one of the two cage groups which make up the site. At the time of inspection, one cage remained stocked at the affected cage group, the remaining cages having been harvested out. During inspection of the site a number of lethargic fish were observed in the remaining stocked cage in the cage group where the increased mortality occurred. Five fish were removed for further examination and subsequent diagnostic sampling. No clinical signs of disease were observed in the other cage group.

R09

External examination showed no signs of clinical disease. 1 juvenile sea louse was observed on fish 1.

Internal examination showed pale hearts, pale livers and yellow pseudo faeces present in the gut in all five fish. Enlarged spleen and haemorrhaging of the swim bladder was observed in fish 2-5. The spleen of fish 3 had granulomas present. Petechial haemorrhaging of the liver (fish 1 and 4) and the pyloric caeca (fish 1, 2, 4 and 5) was noted.

<u>Samples</u>

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

Fish number	Pool number	Facility number	Species	Stage	Origin
1-5	1	1	Atlantic salmon	2 kg 2019 Q1	Loch Lochy

Results

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

The following bacteria were isolated from fish 1-5.

- Pasteurella skyensis (Fish 1-5, kidney)
- Vibrio sp. (F1-5, gill. F3-5, kidney)

DNA sequence analysis was performed on a suspected *Pasteurella skyensis* colony. Results showed the isolate to be *Pasteurella skyensis*.

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 fish 1-5. The tissue samples were fixed in 10% neutral buffered formalin.

Histopathological examination revealed the following:

<u>Gill:</u> Mild multifocal interlamellar hyperplasia with occasional spaces (lacunae) (F3, F4 & F5) and occasional amoebic cells resembling *Neoparamoeba perurans* (F4). Occasional presence of basophilic epithelial inclusions (likely epitheliocystis) (F3). Scattered aneurysmal dilation/telangiectasia and lamellar thrombosis noted in all fish. Free blood among gills filaments. Generalized epithelial lifting likely associated with post-mortem artefact.

Skin & Muscle: Degeneration of single individual skeletal white fibres (F2).

R09

<u>Heart:</u> Mild to moderate pericarditis (all fish), focal infiltration of inflammatory cells in the compact layer of ventricle (F1) and mild infiltration of inflammatory cells at the spongy layer (F3).

<u>Gut and pyloric caeca:</u> Some cell sloughing (likely associated with post-mortem artefact).

Pancreas: Within normal range.

<u>Liver:</u> Mild multifocal hepatic necrosis (F4 & F5), some cuffing noted (F3). F5 also displayed thickness of the hepatic capsule and mild focal vasculitis observed in F1.

<u>Kidney:</u> Small foci of hematopoietic necrosis and presence of deposits of eosinophilic material (asteroid bodies, splendore-hoeppli material) distributed among hematopoietic tissue (F2, F3, F4). F4 also displayed few glomeruli with evidences of necrosis and some rod-shape Gram-negative bacteria (F2, F3, F5). Thickness of kidney capsule also noted

<u>Spleen:</u> Mild multifocal necrosis of white pulp and presence of small deposits of eosinophilic material (asteroid bodies, splendore-hoeppli material) distributed among the parenchyma (all fish). F3 also displayed thickness of the splenic capsule.

Signed:

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

Date: 05/12/2019





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
 22/10/2019

 Site No
 FS0413
 Site Name
 Camas Glas

 Inspector
 Case No
 20190619

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

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

Records

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

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

Mortality records were inspected and found to be adequately maintained.

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

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.

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.

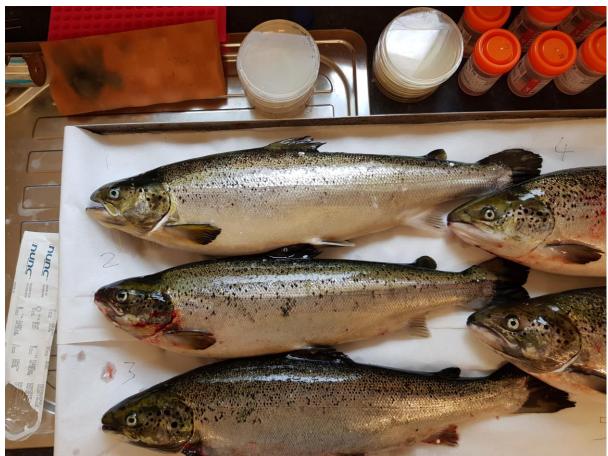
Samples were taken to be analysed for veterinary residues.

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: 01/11/2019

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



F1-F3



F4-F5









F4



F5

FHI 059, Version 12		Issued by: FHI		Date of issue: 08/10/2018
Case No: 2019-0620				Date of visit: 23/10/2019
Time spent on site:	hours	N	/lain Inspector:	
Site No: FS0776 Business No: FB0134	Site Name: Business Name:	Loch nan Losghai Kames Fish Farm		
Case Types: 1 ECI	2 CNI 3	4	5	6
Water Temp (°C): 9.3	Thermometer No:	T153	ם ו	FHI 045 completed
Observations:	Region: ST	Water type:	F	CoGP MA
Dead/weak/abnormally behaving Clinical signs of disease observe Gross pathology observed? Diagnostic samples taken?		Y If yes, see ad	lditional inform	ation/clinical score sheet. ation/clinical score sheet. ation/clinical score sheet.
UNI/REG only - if unable to carry	out intended visit deta	ail reason below:		

FHI 059, Version 12			Issu	ıed by: FHI			Date of issue	e: 08/10/2018
Case No:	2019-0620		Site No:	FS0776	3			
Date of Visit:		23/10/2019	,		Inspector(s):]
Registration/Author 1. Business/site deta 2. Changes made to Site Details	ails summary		ite representa	ative?			Y Y	
Total No facilities		4	Facilities sto	cked	4	No facilitie	es inspected	4
Species	Atlantic salmon							
Age group	2019 S0							
	114,830							
	104g							
Next Fallow Date (Si		Unsure		Next Input Da	ate (Site)	July 2020.	, or may fallow	v loch
TOM:	,	01.5				5 2,	or may	1031.
Recent (last 4 wks) of lf yes, detail:	lisease probl	ems?		N	N Any escapes	(since last	visit)?	N
Movement Records								
 Movement records Date of last inspect Are records completed Are movement records Are records completed Are health certification 	ction: plete and corre cords available plete and corre	rectly entered? ble for dead fis rectly entered?	? sh and waste? ?				01/11/2016	Y Y Y Y N/A
Transport Records 1. Are any movemen If yes, is there a syst	nts carried out	• •	•	•	_			Y
Mortality Records	"-lala for i	-4'-m2						
 Mortality records a How are mortalitie 		•			Ensiled - on s	oito		'
	_	ames shore b	ase		Elisiled - Oil s	Sile		
3. Mortality records of								Y
4. Recent mortality (I				fish per cage	per week but o	ften less an	id often single	figures per
5. Evidence of recen	•	atypical mortal						N
If yes, facility nos/no	mortality per	facility/no sto	ck per facility	/reason:				
		- 1-1						
6. Any other peaks in				z : reacination	lace of 2,000 r	tue fich in 3	wask pariod	-ttributed
If yes, detail:	to handling n	mortalities			loss of 2,000 pl	lus fisir in o	week periou	- attributed
7. Have increased (u	inexplained)		•		t stariel conti	i- 10 S	t-ushar or	T and
If yes, detail action:		furunculosis changes in ir	- 30% mortali nternal organs	lities with clinic s associated w	bacterial septic cal signs 39 mo with bacterial se ciding with lower	orts on 19th. epticaemia.	. Skin haemor Additional vet	rhages and
8. Have 'mortality eve	ents' been re	ported to FHI	? If no, add M	IRT case and	enter on morta	ality events s	sheet.	N/A

Recent treatments		Y
If yes, detail:	Oxytetracycline	
	Aquatet -	
	started 22	
	Sept Finish ad 4	
	finished 1 October	
	2019. All	
	cages for	
If other, detail:	furunculosis	
	ds available for inspection?	Y
	plete and correctly entered?	Y
4. Are fish in a withd		Y
5. If yes, what treatn		
If other, detail:	Oxyceracyonic	
6. Are medicines sto	ored appropriately?	Y
	•	
Biosecurity Record	-	
	ds available for inspection?	Y
2. Has the manner a	and frequency of mortality removal, recording and safe disposal been considered?	Y
	and period in which the APB will notify Scottish Ministers or veterinary professional of any	
increased (unexplain	ined) mortality at the site been included?	Y
	at will be taken in the event that the presence or suspicion of the presence of a listed disease	Y
is detected been inc	cluded and how and when that will be notified to Scottish Ministers?	
	atus of aquaculture animals being stocked on the farm site been covered (equal or higher	Y
health status, certific	cation if required)?	
	dry and biosecurity measures implemented between each epidemiological unit to minimise	Y
transmission of dise	ease been covered (movement of staff, visitors, equipment, live or dead fish etc.)?	
	n available regarding the measures in place to maintain the physical containment of	Y
aquaculture animals	-	
	urity procedures been adequately implemented on site?	Y
If no, detail:		
Results of Surveilla	lance	
4 Usa sau saine Us	sould as morallance been comised out by on an help-life of the business of	V
•	nealth surveillance been carried out by, or on behalf of, the business?	Y
•	s available for inspection?	Y
3. Any significant res		Y
	detailed under recent disease problems).	
See detail above		
	Described by the description of	
	Records checked between: Last inspection (01/11/16) to today (23/10/19)	

Additional Case Information:

Stock on site were diagnosed with Furunculosis, few mortalities and clinical signs but treated with Aquatet Sept/Oct 19. No reported problems since. Unsure of destination of stock for on-growing - exploring own sea sites as an option. Fish currently being fed a maintenance diet. Three moribund fish and two dead fish removed and examined. Of the moribund fish two exhibited signs of apparent bird predation and one as an apparent failed fish. No obvious post mortem signs of disease within the 5 fish observed.

FHI 059, Version 12		Issued by: FHI			Date of	of issue	: 08/10/2018
Case Number:	2019-0620		Site No:	FS0776		Insp:	
Date of Visit	23/10/2019		No of m	ovements/s	supp./dest.		Score
Live fish movements			0	1-5	6-10	>10	
Movements on (from out	Frequency of n	novements on from equivalent MS	0	5	10	14	0
with GB) of susceptible species		novements on from equivalent zone or	0	9	18	26	0
Special Control of the Control of th	Number of sup	ncluding third country	0			14	·
Mayamanta off							
Movements off	Frequency of n Number of des		0			10 10	3
Exposure via water	rtaniber of des	Site contacts		_			
Water contacts with other	Farm is protect	ed (secure water supply through					
farms (holding species	disinfection or l	,	0				igwdow
susceptible to same diseases)		or in a coastal zone with category I n or within 1 tidal excursion	1	2	4		1
,		or in a coastal zone with category III					
		n or within 1 tidal excursion	1	3	6		oxdot
		or in a coastal zone with category V n or within 1 tidal excursion	1		8		
	iaims apstream	TOT WILLIEF T LIGHT EXCULSION	<u>'</u>	-	<u> </u>		
Management practices			None	Secure	Unsecure		
Water contacts with processors	Any processing	g plant discharging into adjacent waters	0	1	2		0
On farm processing within the rules of the directive	No on farm pro	cessing	0				0
	Processing own	n fish (re-cycling risk)	1				
	Processing fish	from MS of equivalent status	2				
	Processing fish equivalent state	n from zone or compartment of us	4				
	Processing fish	from Category III farm	8				
	Processing fish	n from Category ∨ farm	10				
Disposal of fish and fish by-	Site's own was	te only processed.	0	1			
products	Common proce	esses with other farms	3				3
	Collection poin	t for waste from other farms	5				
Use of unpasteurised feeds	No feeding of u	inpasteurised feed	0	1			0
·	Feeding unpas	teurised feed	5	1			
Biosecurity		Number of sites	1	2 or 3	≥ 4		
Contacts with other sites	Sites operating	from single shorebase	0	1	2		1
	Sites sharing s	taff and equipment	0	1	2		1
Disinfection of equipment	Yes		0	1			0
between sites, use of footbaths etc	No		1				-
CoGP/Regulator				ı			
Practices in accordance	Yes		0]			
with regulator or industry code of practice	No		3				3
code of practice				J			
Platform access to cages	Yes		0				0
	No		2				
					Total		15
					Rank		LOW

Case No:	2019-0620		Site No:	FS0776	
Sea Lice Inspection	(Seawater Sites Only)				
1. Has the site exper	ienced sea lice problems	in the previous 4 years?			
2. Is the CoGP Farm	Management Area (or e	quivalent) fallowed synchro	onously on a single ye	ear class basis?	
azamethiphos and el can these be deploye	mamectin benzoate) as ed in a reasonable period locumented farm manag	enced in-feed and bath sea well as access to suitable b d of time? ement agreement or staten	piological and/or mech	nanical control measu	res, and
		pection? (Legal SSI, CoGP	Annex 6)		
		standard specified in the S	· ·	egal SSI, CoGP Anne	x 6)
7. Are sea lice (L. sa records are inspected		ow the suggested criteria f	or treatment in the Co	GP during the period	that
8. Have average adu records are inspected	· ·	<i>monis</i>) numbers per fish be	een at a level of 3 or a	bove during the perio	d that
If yes, have these be	en reported to the Fish I	lealth Inspectorate? If no, F	FHI see comment.		
9. Is C. elongatus inf	festation at a level which	is considered to cause sign	nificant welfare proble	ms? (CoGP 4.3.81, 5	5.3.50)
		stered or other actions take longatus is considered to l			
11. Has any other ac	tion been taken (where a	pplicable)?			
12. Have therapeutic	treatments or the action	s taken had a significant im	npact upon the lice lev	els recorded?	
13. Are treatments, v	vhere conducted, carried	out in cooperation between	n participating farms?		
sea lice?		where fewer populations or			
	ecific written lice manage escalation of a sea lice i	ement procedure with wayp nfestation?	oints describing set ac	ctions to deal with red	cognised
16. Do the sea lice le	evels observed on stocks	reflect sea lice count data	? If no please detail re	easons.	
Containment Inspe	ction				
1. Has the site exper	ienced equipment dama	ge due to predators in the o	current or previous pro	oduction cycles?	N
2. Are measures in p	lace to mitigate against	he predation experienced of	on site? (Detail below)		Y
Electric fences, top	nets, predator nets				
If other, detail below	w:				
					TN:
	·	perienced on or in the vicini	ty of the site since the	last FHI inspection?	N
•	uestions 4 – 9. If No skip reported to Scottish Minis				
5. Have these been r	reported to local DSFB fo	orthwith (where they exist)?	(CoGP - 4.4.37, 5.4.	.17)	
		d local fisheries trusts forth			.4.17)
7. Were methods (if	any) used to recover esc	apees? If yes give detail			
8 If all nets were de	ployed was this action a	greed with local wild fish int	erests and was permi	ssion given by Scottis	sh
	oGP – 4.4.38, 5.4.18)	grood man lood, who had hill	or solo and mas permi	55.011 given by Scottis	
9. What action was to	aken to prevent and mini	mise the risk of further esc	apes? (Not covered in	code but could	
be considered und	ler satisfactory measu	res of the Act)			
10. Is the site inspec	ted as satisfactory with r	egards to containment? If n	o, please detail reaso	on(s)	Y

Issued by: FHI

Date of issue: 08/10/2018

FHI 059, Version 12

Case No:	2019-0620			Date of visit:	23/10/2019						
Site No:	FS0776	1	Inspector:								
Results Summary	Freq.			Dat	te of Notificat	tion					
		Database	Insp		Insp	Writing	Insp	2 nd Insp			
	-										
Report Summary				1							
Case Type	Date	Insp	2 nd Insp								
ECI, CNI	06/11/2019		2 11130								
	1										
	1										





Kames Fish Farming Ltd Kilmelford Oban Argyll PA34 4XA

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

Business No FB0134 Site No FS0776 Inspector DATE OF VISIT 23/10/2019
SITE NAME Loch nan Losghainn Mhor
CASE No 20190620

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

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

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

Records

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

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

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

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 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.

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:

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/FHl/charter

Date: 6 November 2019

FHI 059, Version 12		Issued by: FHI	Date of issue: 08/10/2018			
Case No: 2019-0621			Date of visit: 22/10/2019			
Time spent on site:	4 hours	Main Ir	nspector:			
Site No: SS0759 Business No: SB0530	Site Name: Business Name:	Fearna Loch Striven Mussel Fa	arms Ltd			
Case Types: 1 MOV	2 3	4 5	6			
Water Temp (°C):	Thermometer No:		FHI 045 completed			
Observations:	Region: ST	Water type: S	CoGP MA:			
Dead/weak/abnormally behavin Clinical signs of disease observ Gross pathology observed? Diagnostic samples taken?	•	N If yes, see additional information/clinical score sheet. N If yes, see additional information/clinical score sheet. N If yes, see additional information/clinical score sheet. N				
UNI/REG only - if unable to carry out intended visit detail reason below:						

Additional Case Information:

No observed mortality on site.

15 bags (18 Tonnes) of mussels brought ashore for inspection prior to issuing Health Certificate for export to Ireland. All bags inspected. No other molluscs observed.

Certificate Ref No: INTRA.GB.2019.0029407; Local Ref No: MD19/128

FHI 059, Version 12			Issu	ed by: FHI			Date of issu	ıe: 08/10/2018
Case No:	2019-0621		Site No:	SS0759				
Date of Visit:		22/10/2019)		Inspector(s):]
Registration/Authornamental 1. Business/site deta 2. Changes made to	ails summary		site representa	ative?			N N	}
Site Details					10			
Total No facilities		30	Facilities sto	cked	10	No facilitie	es inspected	0
Species	Mussels							
Age group No Fish	2018 -14							
	200 Tonnes 35-40 mm							
Mean Fish Wt		21/4		N. Charlet De	(0:50)	Nistanal as	ill and at at at	
Next Fallow Date (S	ite)	N/A		Next Input Da	ite (Site)	Natural se	ettlement of st	tock
Recent (last 4 wks)	disease proble	ems?		N	Any escape	es (since last	visit)?	N/A
If yes, detail:								
Movement Record	s							
1. Movement record	ls available for	r inspection?						Y
2. Date of last inspe							16/10/2019	
3. Are records comp	olete and corre	ectly entered	?					Y
4. Are movement re	cords availabl	e for dead fis	sh and waste?					N/A
5. Are records comp	olete and corre	ectly entered?	?					N/A
6. Are health certific	ates for introd	luctions (outv	vith GB) availa	able?				N/A
Transport Records								
1. Are any movemen		t by (or on be	half) of the bu	usiness (not us	ing a STB)?			
If yes, is there a sys		* '		,	· ·			
Mortality Records								
Mortality records	available for ir	nspection?						N/A
2. How are mortalities		•						
If other detail:								
3. Mortality records	complete and	correctly ent	ered?					N/A
4. Recent mortality (•							
5. Evidence of recer	nt increased/a	typical morta	lities?					N/A
If yes, facility nos/no		• •		/reason:				
6. Any other peaks i	n mortality du	ring period ch	necked?					N/A
If yes, detail:		t PC I .		, EIII0				N1/A
7. Have increased (unexplained) r	nortalities be	en reported to	vet or FHI?				N/A
If yes, detail action:		i ita FIII	O If the state N	DT		t Ptta		NI/A
8. Have 'mortality ev	<i>r</i> ents' been rep	ported to FHI	? If no, add M	IRT case and e	enter on mor	tality events s	sheet.	N/A

EULOSO Version 40	Japana di baya El III	Data of incurs 00/40/2040
FHI 059, Version 12	Issued by: FHI	Date of issue: 08/10/2018
Recent treatments (last 4 wks)? If yes, detail:		
If other, detail:		
Medicines records available for inspection.	ection?	
3. Are records complete and correctly e		
4. Are fish in a withdrawal period?		
5. If yes, what treatment(s)?		
If other, detail:		
6. Are medicines stored appropriately?		
Biosecurity Records		
Biosecurity records available for insp	ection?	
	ortality removal, recording and safe disposal been	considered?
3. Has the manner and period in which	the APB will notify Scottish Ministers or veterinary	professional of any
increased (unexplained) mortality at the	e site been included?	
	e event that the presence or suspicion of the pres	sence of a listed disease
	I when that will be notified to Scottish Ministers?	
	animals being stocked on the farm site been cover	ered (equal or higher
health status, certification if required)?		
6. Have the husbandry and biosecurity	measures implemented between each epidemiolo	ogical unit to minimise
•	movement of staff, visitors, equipment, live or dea	
	the measures in place to maintain the physical co	ontainment of
aquaculture animals held on site?		
8. Have the biosecurity procedures bee	n adequately implemented on site?	
If no, detail:		
Results of Surveillance		

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

2. If yes, are results available for inspection?

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

Records checked between:

3. Any significant results?

N/A

16/10/19/ - 22/10/19

Case No:	2040 0004			D-1(-1-1)	00/40/0040			
Case No:	2019-0621	J		Date of visit:	22/10/2019			
Site No:	SS0759	Inspector:						
Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp
	 							
	 							
	1							
	-							
Report Summary								
Case Type	Date	Insp	2 nd Insp					
MOV	06/11/2019							
	ļ							
	 							
	 							





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

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NO SB0530 SITE NO SS0759 INSPECTOR
 DATE OF VISIT
 22/10/2019

 SITE NAME
 Fearna

 CASE NO
 20190621

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 juvenile common mussels (*Mytilus edulis*) for placing on the market in the Republic of Ireland was inspected. A health certificate was issued which must travel with the consignment to the destination. The official authority in the importing country has been notified.

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

Signed:

Fish Health Inspector

Date: 6 November 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

FHI 059, Version 12		Issued by: FHI	Date of issue: 08/10/2018			
Case No: 2019-0622			Date of visit: 23/10/2019			
Time spent on site:	2 hours	Main Inspe	ctor:			
Site No: SS0759 Business No: SB0530	Site Name: Business Name:	Fearna Loch Striven Mussel Farms	Ltd			
Case Types: 1 MOV	2 3	4 5	6			
Water Temp (°C):	Thermometer No:		FHI 045 completed			
Observations:	Region: ST	Water type: S	CoGP MA			
Dead/weak/abnormally behaving fish present? Clinical signs of disease observed? Gross pathology observed? Diagnostic samples taken? N If yes, see additional information/clinical score sheet. N If yes, see additional information/clinical score sheet. N N						
UNI/REG only - if unable to carry out intended visit detail reason below:						

Additional Case Information:

No observed mortality on site.

16 bags (19.2 Tonnes) of mussels brought ashore for inspection prior to issuing Health Certificate for export to Ireland. All bags inspected. No other molluscs observed

Certificate Ref No: INTRA.GB.2019.0029408; Local Ref No: MD19/129

FHI 059, Version 12		Issued by: FHI			Date of issu	e: 08/10/2018
Case No: 2019-0	622 Site No	s: SS0759				
Date of Visit:	23/10/2019		Inspector(s):]
Registration/Authorisation 1. Business/site details sum 2. Changes made to details	mary checked by site repre	esentative?			N N	
Site Details Total No facilities Species Age group No Fish Mean Fish Wt Site Details Musse 2018 - 181 To	14 nnes	es stocked	10	No facilities	s inspected	0
Mean Fish Wt Next Fallow Date (Site)	N/A	Next Input Dat	e (Site)	Natural se	ttlement of st	ock
Recent (last 4 wks) disease If yes, detail:	problems?	N.	Any escapes	(since last	visit)?	N/A
Movement Records 1. Movement records availa 2. Date of last inspection: 3. Are records complete and 4. Are movement records availa 5. Are records complete and 6. Are health certificates for	I correctly entered? vailable for dead fish and w I correctly entered?				16/10/2019	Y N/A N/A
Transport Records 1. Are any movements carrill yes, is there a system in p		· ·	_			
Mortality Records 1. Mortality records available 2. How are mortalities dispo						N/A
If other detail: 3. Mortality records complet 4. Recent mortality (last 4 w	•					N/A
5. Evidence of recent increa If yes, facility nos/no mortali	• •	acility/reason:				N/A
6. Any other peaks in morta If yes, detail:	ity during period checked?					N/A
7. Have increased (unexplain If yes, detail action: 8. Have 'mortality events' be			nter on morta	lity events s	heet.	N/A

FHI 059, Version 12	Issued by: FHI	Date of issue: 08/10/2018
Recent treatments (last 4 wks)? If yes, detail:		
If other, detail:		
2. Medicines records available for inspection		
 Are records complete and correctly enter Are fish in a withdrawal period? 	ed?	
5. If yes, what treatment(s)?		
If other, detail:		
6. Are medicines stored appropriately?		
Biosecurity Records		
Biosecurity records available for inspection	on?	
•	ity removal, recording and safe disposal beer	n considered?
•	APB will notify Scottish Ministers or veterinar	
increased (unexplained) mortality at the site	e been included?	
	vent that the presence or suspicion of the pre	
	en that will be notified to Scottish Ministers?nals being stocked on the farm site been cov	
b. Has the health status of aquaculture anim health status, certification if required)?	hals being stocked on the farm site been cov	ered (equal or higher
ricular status, coranication in roquitous,		
6. Have the husbandry and biosecurity mea	asures implemented between each epidemiol	ogical unit to minimise
·	vement of staff, visitors, equipment, live or de	
	measures in place to maintain the physical of	containment of
aquaculture animals held on site?		
8. Have the biosecurity procedures been ad If no, detail:	lequately implemented on site?	
Results of Surveillance		
1. Has any animal health surveillance been	carried out by, or on behalf of, the business?	? N/A

16/10/19 - 23/10/19

2. If yes, are results available for inspection?

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

Records checked between:

3. Any significant results?

Case No:	2019-0622			Date of visit:	23/10/2019			
Site No:	SS0759	1		Inspector:		l		
Results Summary	Freq.			Da	te of Notificat	tion		
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp
Report Summary								
Report Summary Case Type	Date	Insp	2 nd Insp					
MOV	06/11/2019		2 insp					
IVIOV	00/11/2013							
	 							
								
	_							





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

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NO SB0530 SITE NO SS0759 INSPECTOR
 DATE OF VISIT
 23/10/2019

 SITE NAME
 Fearna

 CASE NO
 20190622

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 juvenile common mussels (*Mytilus edulis*) for placing on the market in the Republic of Ireland was inspected. A health certificate was issued which must travel with the consignment to the destination. The official authority in the importing country has been notified.

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

Signed:

Fish Health Inspector

Date: 6 November 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

FHI 059, Version 12		Issued by: FHI	Date of issue: 08/10/2018
Case No: 2019-0623			Date of visit: 24/10/2019
Time spent on site:	hours	Main Inspecto	or:
Site No: SS0759 Business No: SB0530	Site Name: Business Name:	Fearna Loch Striven Mussel Farms Lt	d
Case Types: 1 MOV	2 3	4 5	6
Water Temp (°C):	Thermometer No:		FHI 045 completed
Observations:	Region: ST	Water type: S	CoGP MA
Dead/weak/abnormally behaving Clinical signs of disease observed Gross pathology observed? Diagnostic samples taken?	•	N If yes, see additional infor	mation/clinical score sheet. mation/clinical score sheet. mation/clinical score sheet.
UNI/REG only - if unable to carry	out intended visit deta	ail reason below:	

Additional Case Information:

No observed mortality on site.

16 bags (19.2 Tonnes) of mussels brought ashore for inspection prior to issuing Health Certificate for export to Ireland. All bags inspected. No other molluscs observed

Certificate Ref No: INTRA.GB.2019.0029409; Local Ref No: MD19/130

FHI 059, Version 12			Issu	ied by: FHI			Date of issu	ue: 08/10/2018
Case No:	2019-0623		Site No:	SS0759	9			
Date of Visit:		24/10/2019	•		Inspector(s)):]
Registration/Authornal Business/site details. Changes made to	ails summary		ite representa	ative?			N N	-
Site Details								
Total No facilities		30	Facilities sto	cked	10	No facilitie	es inspected	0
Species	Mussels							
Age group	2018 - 14							
No Fish	162 Tonnes							
Mean Fish Wt	35-40 mm							
Next Fallow Date (S	ite)	N/A		Next Input Da	ate (Site)	Natural se	ettlement	
Recent (last 4 wks)	disease probl	ems?		N	Any escape	s (since last	visit)?	N/A
If yes, detail:					7, 222		vic,	
Movement Record	s							
Movement record	_	r inspection?						Y
2. Date of last inspe		пороскол					16/10/2019	
3. Are records comp		ectly entered?	>				13.13.1	Y
4. Are movement re		•						N/A
5. Are records comp								N/A
6. Are health certific		•		able?				N/A
Transport Records								
1. Are any movemen		t by (or on be	half) of the bu	usiness (not us	ing a STB)?			
If yes, is there a sys				•	_			
Mortality Records								
1. Mortality records	available for in	nspection?						N/A
2. How are mortalitie		•						
If other detail:								
3. Mortality records	complete and	correctly ent	ered?					N/A
4. Recent mortality ((last 4 wks):							
5. Evidence of recer	nt increased/a	typical mortal	lities?					N/A
If yes, facility nos/no				/reason:				
O A the amparator i	talite de	·	-112					N/A
6. Any other peaks i If yes, detail:	n mortality dui	ring period cri	ескеа?					N/A
7. Have increased (unexplained)	mortalities be	en reported to	vet or FHI?				N/A
If yes, detail action:								
8. Have 'mortality ev	∕ents' been re	ported to FHI	? If no, add N	IRT case and e	enter on morf	tality events	sheet.	N/A

FHI 059, Version 12	Issued by: FHI	Date of issue: 08/10/2018
1. Recent treatments (last 4 wks)? If yes, detail: If other, detail: 2. Medicines records available for ins 3. Are records complete and correctly 4. Are fish in a withdrawal period? 5. If yes, what treatment(s)? If other, detail:	•	
6. Are medicines stored appropriately	?	
3. Has the manner and period in which increased (unexplained) mortality at4. Has the action that will be taken in is detected been included and how a	mortality removal, recording and safe disposal been the APB will notify Scottish Ministers or veterinathe site been included? the event that the presence or suspicion of the presend when that will be notified to Scottish Ministers? The animals being stocked on the farm site been contained.	esence of a listed disease ?
transmission of disease been covered 7. Is documentation available regardinaquaculture animals held on site?	ty measures implemented between each epidemic d (movement of staff, visitors, equipment, live or d ing the measures in place to maintain the physical een adequately implemented on site?	lead fish etc.)?
Results of Surveillance		
1. Has any animal health surveillance	e been carried out by, or on behalf of, the business	s? N/A

16/10/2019 - 24/10/19

2. If yes, are results available for inspection?

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

Records checked between:

3. Any significant results?

Case No:	2019-0623			Date of visit:	24/10/2019			
Cubb No.				Date of Visit.	24/10/2010			
Site No:	SS0759			Inspector:				
Results Summary	Freq.			Da	te of Notificat	tion		
,		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp
				1				
Report Summary								
Case Type	Date	Insp	2 nd Insp					
Mov	06/11/2019							
	i							





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

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NO SB0530 SITE NO SS0759 INSPECTOR
 DATE OF VISIT
 24/10/2019

 SITE NAME
 Fearna

 CASE NO
 20190623

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 juvenile mussels (*Mytilus edulis*) for placing on the market in the Republic of Ireland was inspected. A health certificate was issued which must travel with the consignment to the destination. The official authority in the importing country has been notified.

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

Signed:

Fish Health Inspector

Date: 6 November 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/FHl/charter

FHI 059, Version 12		Issued by: FHI	Date of issue: 08/10/2018
Case No: 2019-0624			Date of visit: 23/10/2019
Time spent on site:	hours	Main	Inspector:
Site No: FS0629 Business No: FB0119	Site Name: Business Name:	Poll Na Gille Mowi Scotland Ltd	
Case Types: 1 REP	2 DIA 3	4 5	6
Water Temp (°C): 13.2	Thermometer No:	T147	FHI 045 completed
Observations:	Region: ST	Water type: S	CoGP MA M-40
Dead/weak/abnormally behaving Clinical signs of disease observe Gross pathology observed? Diagnostic samples taken?		Y If yes, see additio	nal information/clinical score sheet. nal information/clinical score sheet. nal information/clinical score sheet.
UNI/REG only - if unable to carry	out intended visit deta	ail reason below:	

Additional Case Information:

Site inspected following report of increased mortality by business

Hydrolicer treatment 03 - 07 October, Salmosan treatment carried out 15-20 October

Site is being harvested out and is due to be fallow by the end of October

Several lethargic fish observed in all stocked cages on site, some with visible sea lice damage. 5 fish removed for diagnostic sampling.

FHI 059, Version 12			Issue	ed by: FHI			Date of issue	e: 08/10/2018
Case No:	2019-0624		Site No:	FS0629				
Date of Visit:		23/10/2019	1		Inspector(s):			
1. Business/site deta	ails summary		ite representa	tive?			Y N	
Site Details								
Total No facilities		12	Facilities sto	cked	9	No facilities	s inspected	12
•	SAL	LUM						
Age group								
No Fish								
Mean Fish Wt	3.6 kg	Mixed						
Next Fallow Date (S	ite)	November 2	019	Next Input Da	te (Site)	2020 Q2		
			ase suspect			•	visit)?	N
•		implex gill dist	case, suspect	eu pasteurena	Skycholo, On	10		
 Date of last inspects Are records comp Are movement records comp Are records comp 	ction: plete and corrections cords availab plete and corre	ectly entered? le for dead fis ectly entered?	h and waste?				19/09/2019	Y Y Y Y N/A
1. Are any movemen	nts carried ou		•		_			
Mortality Records								
	available for i	nspection?						Y
2. How are mortalitie	es disposed o	f?			Whole fish -	Dundas Che	micals	
				iogas, Cumbe	rnauld			
3. Mortality records of	complete and	correctly ente	w/b 23/09/19 21613 (4.089	%), w/b 14/10/1	19 - 49795 (10	0.11%). Incre	ease mortality	attributed to
4. Recent mortality (last 4 wks):		skyensis, all	cages affected	İ			
Case No: 2019-0624 Site No: FS0629 Date of Visit: 23/10/2019 Inspector(s): Registration/Authorisation Details 1. Business/site details summary checked by site representative? 2. Changes made to details? Site Details Total No facilities Species SAL LUM Age group 2018 Q3 2018 No Fish 284,000 -3000 Mean Fish Wt Next Fallow Date (Site) November 2019 Next Input Date (Site) Novement 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? 4. Are movement scarried 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? Mortality records available for inspection? 2. How are mortalities of inspection? 2. How are mortalities disposed of? Mortality records available for inspection? 2. How are mortalities disposed of? Mortality records available for inspection? 2. How are mortality (last 4 wks): Solven and the substance of transportation records? Whole fish - Dundas Chemicals Anortality records complete and correctly entered? Whole fish - Dundas Chemicals Anortality records complete and correctly entered? Whole fish - Dundas Chemicals Whole fish - Dundas Chemicals Whole fish - Dundas Chemicals Anortality records complete and correctly entered? Whole fish - Dundas Chemicals Anortality records available for inspection? In Grant Anortality (last 4 wks): Sevents, all cages affected.		Y						
	mortality per	facility/no sto	ck per facility/	reason:				
	n mortality du	ring period ch	ecked?					N
•	inexplained)	mortalities be	en reported to	vet or FHI?				Y
. riave inorcasca (t	an explained)		•		en. Site harve	esting out, du	ue to fallow by	y end of
•	ents' been re	October.		·				Y

FHI 059, Version 12	Issued by: FHI	Date of issue: 08/10/2018
1. Recent treatments (last 4 wks)?		Y
· · · · · · · · · · · · · · · · · · ·	.S., Salmosan	
If other, detail:		
Medicines records available for insp		Y
3. Are records complete and correctly	entered?	Y
4. Are fish in a withdrawal period?		Y
5. If yes, what treatment(s)?	T.M.S., Salmosan	
If other, detail: 6. Are medicines stored appropriately?	}	V
Biosecurity Records		
Biosecurity records available for inspections		
· · · · · · · · · · · · · · · · · · ·	nortality removal, recording and safe disposal bee	
3. Has the manner and period in which increased (unexplained) mortality at the	n the APB will notify Scottish Ministers or veterina	ry professional of any
increased (unexplained) mortality at ti	ie site been included:	
	he event that the presence or suspicion of the production of the p	
	e animals being stocked on the farm site been co	
health status, certification if required)?	_	vereu (equal or higher
6. Have the husbandry and biosecurity	measures implemented between each epidemic	plogical unit to minimise
	(movement of staff, visitors, equipment, live or d	
	g the measures in place to maintain the physical	
8. Have the biosecurity procedures be	en adequately implemented on site?	

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

suspected bacterial infection, likely pasteurella skyensis. Anaemia the most likely cause of increased mortality.

19/09/2019 - 23/10/2019

If no, detail:

Results of Surveillance

3. Any significant results?

2. If yes, are results available for inspection?

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

Records checked between:

П	11 059, Version 12													เอรน	eu by.						
	Case no:	2019	9-06	324		Site N	0:		E	FS062	29				ate of amplin			23	/10/20	019	23/
	Priority samples:		VI			В	Α		3	P	Α		N	1G	апрш	g.	HI]		
	Time sampling starts/ends:			0:00			:20	0:00	2			Inspecto	or:					VMD N	lo.		0
	Environmental conditions:		1	Indo	ors	l	2		J		3			4			5		J		
	Summary samples	HIST	Г	Υ		ВА	ľ	Υ		MG	I	Υ	VI	Y		PA			Tota	al Sar	nples
A	dd Fish/Pools - click																				
П	Pool/Fish No	F1		F2		F3		F4	F	F5	П	P1									
	Fish nos	1		2		3	-	4		5		1-5									
	Pool Group	P1		P1		P1	T	P1	F	P1											
	Species	SAL		SAL	\neg	SAL		SAL	5	SAL		SAL									
	Average weight	3.80	000	3.80	00	3.800	0	3.800	00	3.800	0	3.8000									
	Sex	N/A		N/A		N/A		N/A		N/A		N/A									
	Water Type	SW		SW		SW	-	SW	•	SW		SW									
				ĺ																	
			g		<u>Ö</u>	.5	5		<u>0</u>		<u>6</u>	g									
Details			och Arkaig		Loch Arkaig	, ,	Alkaig	3	ocn Arkaig	2	_ocn Arkaig	Arkaig									
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$\overline{\mathbf{v}}$			ch		덩	ç	50	9		5	2	Loch									
toc	-10-011 -11-9	4.4	Ľ				_		1		Ľ	۲							+		
S	Facility No	14		14		14		14		15											

											,			
10/2019	Addition	nal Sam	ple Infor	mation:										
E	BA-STORAGE - Kidney tissue stored in universals for pasteurella skyensis testing													
6		Total To	ests ass	igned	4	l								

FHI 059, Version 12 Issued by: FHI Date of issue: 08/10/2018 Method of killing: Case no: FS0629 2019-0624 Site No: Inspector(s): Date of visit: 23/10/2019 Sheet Relevant: Y S for strong presence: M for medium presence: W for weak presence Fish Number Time sampled after death (if > 45 minutes) 90 min 90 mins 90 mins 90 mins 90 mins External Signs Behaviour Moribund Lethargic Hanging vertical Spiralling Flashing Loss of equilibrium Body Dark Distended abdomen Anorexic Scale Oedema Opercula Shortened Flared Haemorrhaging Throat Ventrum Base of fins Elsewhere Eyes Exophthalmic Enophthalmic (sunken) Cataract Haemorrhagic Gills M M M Pale Zoned Necrotic Lesions Flank Elsewhere Vent Inflamed Trailing faeces ~15 ~15 ~15 Lice Load Estimate numbers ~15 ~15 Internal Signs М М М Clear Ascites Bloody Oedema In tissues M М М Heart Pale/anaemic M M Granulomas Deformed W Liver Petechial haem Gross haem Tissue breakdown Enlarged Colour number(s) Granulomas Lesions Pyloric caeca Petechial haem Tubules mauve Lack of fat Spleen Enlarged Granulomas М Gut No food present Yellow pseudo-faeces External haem Internal haem Body wall Haemorrhaging Swim bladder Haemorrhaging M Fluid filled Kidney Swollen Grey Granular W Liquefied Parasites present General Anaemia

Case no: 2019-0624

Date of visit: 23/10/2019

Date of Visit.	20/10/20						
S for strong prese	nce: M for medium presence: W fo	DL M					
Fish Number	·						
	ter death (if > 45 minutes)						
External Signs							
Behaviour	Moribund						
	Lethargic						
	Hanging vertical						
	Spiralling						
	Flashing						
	Loss of equilibrium						
Body	Dark						
	Distended abdomen						
	Anorexic Scale Oedema						
Opercula	Shortened						
Opercula	Flared						
Haemorrhaging	Throat						
	Ventrum						
	Base of fins						
	Elsewhere						
Eyes	Exophthalmic						
	Enophthalmic (sunken)						
	Cataract						
	Haemorrhagic						
Gills	Pale						
	Zoned						
	Necrotic						
Lesions	Flank						
	Elsewhere						
Vent	Inflamed						
	Trailing faeces						
Lice Load	Estimate numbers						
lt							
Internal Signs	Class						
Ascites	Clear Bloody						
Oedema	In tissues						
Heart	Pale/anaemic						
i lear t	Granulomas						
	Deformed						
Liver	Petechial haem						
	Gross haem						
	Tissue breakdown						
	Enlarged						
	Colour number(s)						
	Granulomas						
	Lesions						
Pyloric caeca	Petechial haem						
	Tubules mauve						
	Lack of fat						
Spleen	Enlarged						
	Granulomas						
Gut	No food present						
	Yellow pseudo-faeces						
	External haem						
Dadwara	Internal haem						
Body wall Swim bladder	Haemorrhaging						
owim bladder	Haemorrhaging						
Kidney	Fluid filled Swollen						
Kidney	Grey						
	Granular						
	Liquefied						
General	Parasites present						
Contra	Anaemia						
	, alasiiiia						

FHI 059, Version 12	Issued by: FHI	Date of issue: 08/10/201
Additional comments:		

Site No: FS0629

Case No: 2019-0624

Nature of non-compliance:
Action taken (FHI):

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

Case No: 2019-0624 Date of visit: 23/10/2019 Site No: FS0629 Inspector: Results Summary Freq. Date of Notification Database Phone Writing Insp Insp Insp 2nd Insp MG_IHN 0/1 01/11/2019 08/11/2019 05/12/2019 MG_IPN 0/1 05/12/2019 01/11/2019 08/11/2019 05/12/2019 MG_ISA 0/1 01/11/2019 08/11/2019 MG_SAV 01/11/2019 08/11/2019 05/12/2019 0/1 MG VHS 0/1 05/12/2019 01/11/2019 08/11/2019 MG AGD 5/5 01/11/2019 08/11/2019 05/12/2019 MG_PARA_THER 5/5 01/11/2019 08/11/2019 05/12/2019 3/5 MGSAL_POX 01/11/2019 08/11/2019 05/12/2019 BACT VSPE 5/5 08/11/2019 08/11/2019 05/12/2019 2/5 BACT_PASS 08/11/2019 05/12/2019 08/11/2019 HIST_CGDH 25/11/2019 05/12/2019 5/5 25/11/2019 HIST GPAT 5/5 25/11/2019 25/11/2019 05/12/2019 HIST_PMCH 5/5 25/11/2019 25/11/2019 05/12/2019 HIST_PASS 1/5 25/11/2019 25/11/2019 05/12/2019 Report Summary 2nd Insp Case Type Date Insp REP 01/11/2019 DIA 05/12/2019





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
SITE NO FS0629
INSPECTOR

DATE OF VISIT 23/10/2019
SITE NAME Poll Na Gille
CASE NO 20190624

Section 1: Summary

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

Histopathology examination revealed mild multifactorial gill pathology. Multifocal hepatic necrosis was also noted. Mild nephritis likely associated with *Pasteurella skyensis*. The presence of *Pasteurella skyensis* was confirmed by bacterial isolation and molecular genetic speciation, the level and purity suggest this bacterium would be implicated in fish morbidity. *Vibrio* sp. was also identified from bacterial analysis.

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

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

Section 2: Case Detail

Observations

The above site was inspected following a report of increased mortality by the business. Inspection of records on site showed mortality levels of 1.1%, 4.08% and 10.11% for the previous three weeks respectively. Increased mortality was attributed to *Pasteurella skyensis*, complex gill disease and anaemia. During inspection of the site lethargic fish were observed in all cages. Five fish were removed for further examination and subsequent sampling.

External examination showed pale gills in all five fish, there was an estimated lice load of 15 (all stages) on all five fish.

Internal examination showed pale hearts, pale livers and the presence of clear ascites in all five fish. Granulomas were observed in the spleen of fish 2-5, and in the kidney of fish 3 and 5. Fluid was observed in the swim bladder of fish 4-5. Petechial haemorrhaging of the liver and pyloric caeca as well as presence of yellow pseudo-faeces in the gut, was noted in fish 5.

<u>Samples</u>

Samples were collected from fish 1-5 according to the table below:

Fish number	Pool number	Facility number	Species	Stage	Origin
1-4	1	14	Atlantic salmon	3.8 kg 2018 Q3	Loch Arkaig
5	1	15	Atlantic salmon	3.8 kg 2018 Q3	Loch Arkaig

Results

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

The following bacteria were isolated:

- Pasteurella skyensis (F2 and F4, kidney)
- Vibrio sp. (F1, 2, 3 and 5, gill. F3-5, kidney)

DNA sequence analysis was performed on a suspected *Pasteurella skyensis* colony. Results showed the isolate to be *Pasteurella skyensis*.

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

Salmon gillpox virus (SGPV)

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F2	21.39	32.81	32.81	32.79	POSITIVE
F3	21.28	>40	38.29	>40	POSITIVE
F4	21.02	>40	38.55	>40	POSITIVE

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

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

Neoparamoeba perurans (AGD)

Fish Number	Endogenous control Cp value	,	Reported Result (PCR)		
F1	21.24	33.78	34.49	34.00	POSITIVE
F2	21.39	31.96	31.94	31.91	POSITIVE
F3	21.28	33.94	34.20	34.52	POSITIVE
F4	21.02	33.12	33.10	33.09	POSITIVE
F5	20.76	32.45	32.43	32.09	POSITIVE

Paranucleospora theridion

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	21.24	36.17	35.80	35.93	POSITIVE
F2	21.39	32.47	32.21	31.99	POSITIVE
F3	21.28	33.18	32.85	33.34	POSITIVE
F4	21.02	30.16	30.42	30.06	POSITIVE
F5	20.76	30.91	30.55	30.83	POSITIVE

Histology: Tissue samples of gill, skin and skeletal muscle, heart, pyloric caeca, pancreas, hind gut, liver, spleen and kidney were taken from fish 1-5. The tissue samples were fixed in 10% neutral buffered formalin.

Histopathological examination revealed the following:

<u>Gill:</u> Mild multifocal interlamellar hyperplasia and lamellar fusion (F2 & F4). F4 also displayed some tip bluntness. Scattered aneurysmal dilation/telangiectasia and lamellar thrombosis noted in all fish. Generalized epithelial lifting likely associated with post mortem artefact.

Skin & Muscle: Within normal range.

Heart: Small foci of infiltration of inflammatory cells (F1). Mild pericarditis (F4)

<u>Gut and pyloric caeca:</u> Some fibrous adhesions (likely associated with vaccine administration). Marked cell sloughing (likely associated with post mortem artefact).

Pancreas: Within normal range.

<u>Liver:</u> Mild to moderate coalesce multifocal hepatic necrosis (all fish). Mild diffuse hepatocyte vacuolation (F1).

<u>Kidney:</u> Some mild thickening of the glomerular basement membranes (F2, F4), some glomeruli with evidences of necrosis and presence of rod shape Gram negative bacteria (F2).

Spleen: Small foci necrosis of (white pulp).



Date: 05/12/2019

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





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 Site No FS0629 Inspector
 DATE OF VISIT
 23/10/2019

 SITE NAME
 Poll Na Gille

 CASE No
 20190624

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

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

Records

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

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

Mortality records were inspected and found to be adequately maintained.

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

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.

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



Date: 01/11/2019

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



F1-3



F4-5











F5

FHI 059, Version 12		Issued by: FHI		Date of is	sue: 08/10/2018
Case No: 2019-0625				Date of visit: 2	3/10/2019
Time spent on site:	hours	_	Main Inspector:	=	
Site No: FS0859 Business No: FB0119	Site Name: Business Name:	Port Na Cro Mowi Scotland L	td		
Case Types: 1 REP	2 DIA 3	4	5	6	
Water Temp (°C): 13.3	Thermometer No:	T147	_	FHI 045 complete	ed
Observations:	Region: ST	Water type:	S	CoGP MA	M-40
Dead/weak/abnormally behaving Clinical signs of disease observed Gross pathology observed? Diagnostic samples taken?	•	Y If yes, see a	additional inform	nation/clinical sco nation/clinical sco nation/clinical sco	re sheet.
UNI/REG only - if unable to carry	out intended visit deta	ail reason below:			

Additional Case Information:

Site inspected following report of increased mortality from business

Hydrolicer treatments carried out 16-18 and 28-29 September

Site currently harvesting out, due to be fallow by end of October

Several lethargic fish observed in both cages, 5 fish removed for diagnostic sampling.

FHI 059, Version 12			Issue	ed by: FHI			Date of issue	e: 08/10/2018
Case No:	2019-0625		Site No:	FS0859				
Date of Visit:		23/10/2019]		Inspector(s):]
Registration/Autho 1. Business/site deta 2. Changes made to	ails summary		ite representa	tive?			Y Y	
Site Details								
Total No facilities		4	Facilities stoo	cked	2	No facilitie	s inspected	4
Species	SAL	LUM						
Age group	2018 Q4	2018						
No Fish	124,078	200						
Mean Fish Wt	3.9 kg	Mixed						
Next Fallow Date (S	ite)	30/10/2019		Next Input Da	te (Site)	2020 Q2		
Recent (last 4 wks)	disease probl	ems?		Y	Any escapes	(since last	visit)?	N
			eurella skyens			`		
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? Y						Y Y Y Y N/A		
Transport Records 1. Are any movement If yes, is there a systematical systems of the system of the systems of the systems of the system of the syste	nts carried out	•	•	•	_			
Mortality Records								
1. Mortality records a	available for in	nspection?						Y
2. How are mortalitie	es disposed o	f?			Whole fish -	Dundas Che	emicals	
If other detail:	Also taken to	Energen Bio	gas, Cumberr	nauld				
3. Mortality records of	complete and							Y
w/b 23/09/19 - 2131 (0.83%), w/b 30/09/19 - 1479 (0.58%), w/b 07/10/19 - 6062 (2.4%), w/b 14/10/19 - 14173 (5.62%). Recent increase in mortality attributed to anaemia and suspected pasteurella skyensis infection. Both								
4. Recent mortality (last 4 wks): remaining stocked cages affected.								
5. Evidence of recent increased/atypical mortalities?								
If yes, facility nos/no mortality per facility/no stock per facility/reason:								
See above	. 12. 1							V
6. Any other peaks in				(4.000() 40(0	0.0404/4.00	NO() - 44-15 4		Y
				(1.28%), 16/09	9 - 3 184 (1.23	5%) - attribut	led to anaemi	a v
7. Have increased (u	inexplained) i		•	amples taken.	Site harvestir	na due to fo	llow by and a	f October
If yes, detail action:								October
8 Have 'mortality events' been reported to FHI2 If no, add MRT case and enter on mortality events sheet								

FHI 059, Version 12	Issued by: FHI	Date of issue: 08/10/2018
1. Recent treatments (last 4 wks)?		Y
If yes, detail: T.M.S. If other, detail:		
2. Medicines records available for inspection	nn?	
 Are records complete and correctly ente 		Y
4. Are fish in a withdrawal period?	.04.	Y
5. If yes, what treatment(s)?	T.M.S.	
If other, detail:		
6. Are medicines stored appropriately?		Y
Biosecurity Records		
1. Biosecurity records available for inspecti	ion?	
	lity removal, recording and safe disposal be	
•	APB will notify Scottish Ministers or vetering	nary professional of any
increased (unexplained) mortality at the si	te been included?	
4 . I loo Ale e continue Aleca (vill loo Actions in Aleca co		of a lintad diagram
	vent that the presence or suspicion of the p then that will be notified to Scottish Ministers	
5. Has the health status of aquaculture ani	mals being stocked on the farm site been o	covered (equal or higher
health status, certification if required)?		
6. Have the husbandry and biosecurity me	asures implemented between each epidem	iological unit to minimise
•	vement of staff, visitors, equipment, live or	_
7. Is documentation available regarding the aquaculture animals held on site?	e measures in place to maintain the physica	al containment of
8. Have the biosecurity procedures been a	dequately implemented on site?	
If no, detail:	acquatery implemented of one.	
Results of Surveillance		

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

Bacteria present in stock on site, likely pasteurella skyensis, however mortality most likely a result of anaemia

26/06/2019 - 23/10/2019

2. If yes, are results available for inspection?

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

Records checked between:

3. Any significant results?

PHI 039, Version 12							issueu by. rmi						
	Case no:	2019-0	325	Site No:		FS0859			Date of visi Sampling:	t/	23/1	10/2019	23/
	Priority samples:	VI		ВА		PA		MG	Sampling.	НІ			
	Time sampling starts/ends:		0:00		0:00		Inspecto	or:			VMD No). [0
	Environmental conditions:	1	Indoors	2		3	ш	4		5			
	Summary samples	HIST	Υ	ВА	Υ	MG	Υ	VI	Y PA			Total Sa	mples
										_			
A	dd Fish/Pools - click												
Г	Pool/Fish No	F1	F2	F3	F4	F5	P1						
	Fish nos	1	2	3	4	5	1-5						$\overline{}$
	Pool Group	P1	P1	P1		P1							
Г	Species	SAL	SAL	SAL		SAL	SAL						
	Average weight	3.8000	3.8000	3.8000	3.8000	3.8000	3.8000						
	Sex	N/A		N/A		N/A	N/A						
	Water Type	SW	SW	SW	SW	SW	SW						
		_	_	_	_	_	ا د						
Details		naı	nai	nai	nai	naı	nai						
)et	il	ıfin	l iji	Jfin	ıfin	Jiji.	l iji						
$\overline{}$		Glenfinnan	Glenfinnan	Glenfinnan	Glenfinnan	Glenfinnan	Glenfinnan						
Stock	Facility No	2	2				2						
S	I donity 140	2	4	2	2	_	2						

											,			
10/2019	Addition	nal Sam	ple Infor	mation:										
E	BA-STORAGE - Kidney tissue stored in universals for pasteurella skyensis testing													
6		Total To	ests ass	igned	4	l								

FHI 059, Version 12 Issued by: FHI Date of issue: 08/10/2018 Method of killing: Percussive Case no: FS0859 2019-0625 Site No: Inspector(s): Date of visit: 23/10/2019 Sheet Relevant: Y S for strong presence: M for medium presence: W for weak presence Fish Number Time sampled after death (if > 45 minutes) 90 min 90 mins 90 mins 90 mins 90 mins External Signs Behaviour Moribund Lethargic Hanging vertical Spiralling Flashing Loss of equilibrium Body Dark M Distended abdomen Anorexic Scale Oedema Opercula Shortened Flared Haemorrhaging Throat Ventrum M Base of fins Elsewhere Eyes Exophthalmic Enophthalmic (sunken) Cataract Haemorrhagic Gills M M Pale Zoned Necrotic Lesions Flank Elsewhere Vent Inflamed Trailing faeces ~20 ~20 ~20 ~20 ~20 Lice Load Estimate numbers Internal Signs М Ascites Clear Bloody Oedema In tissues M М М Heart Pale/anaemic M M Granulomas Deformed W Liver Petechial haem Gross haem Tissue breakdown Enlarged Colour number(s) Granulomas Lesions Pyloric caeca Petechial haem M Tubules mauve Lack of fat Spleen Enlarged Granulomas Gut No food present Yellow pseudo-faeces External haem Internal haem Body wall Haemorrhaging W W Swim bladder Haemorrhaging M Fluid filled Kidney Swollen Grey Granular W Liquefied

Parasites present

Anaemia

General

Case no: 2019-0625

Date of visit: 23/10/2019

Date of visit.	23/10/20	19					
S for strong prese	ence: M for medium presence: W f	or w					
Fish Number							
Time sampled af	ter death (if > 45 minutes)						
External Signs							
Behaviour	Moribund						
	Lethargic						
	Hanging vertical						
	Spiralling						
	Flashing						
	Loss of equilibrium						
Body	Dark						
	Distended abdomen						
	Anorexic						
	Scale Oedema						
Opercula	Shortened						
	Flared						
Haemorrhaging	Throat						
	Ventrum						
	Base of fins						
	Elsewhere						
Eyes	Exophthalmic						
	Enophthalmic (sunken)						
	Cataract						
	Haemorrhagic						
Gills	Pale						
	Zoned						
	Necrotic						
Lesions	Flank						
	Elsewhere						
Vent	Inflamed			_			
	Trailing faeces						
Lice Load	Estimate numbers			_			
Internal Signs	01						
Ascites	Clear			-			
0	Bloody			_			
Oedema	In tissues						
Heart	Pale/anaemic Granulomas						
	Deformed						
Liver	Petechial haem						
Liver	Gross haem		_				
	Tissue breakdown						
	Enlarged						
	Colour number(s)						
	Granulomas						
	Lesions						
Pyloric caeca	Petechial haem						
yionic caeca	Tubules mauve						
	Lack of fat						
Spleen	Enlarged						
Оріссіі	Granulomas						
Gut	No food present						
- ut	Yellow pseudo-faeces						
	External haem						
	Internal haem						
Body wall	Haemorrhaging						
Swim bladder	Haemorrhaging						
- min bladdol	Fluid filled						
Kidney	Swollen						
	Grey						
	Granular						
	Liquefied						
General	Parasites present						
wi	Anaemia						
	Allacilla						

Case No: 2019-0625 Date of visit: 23/10/2019 Site No: FS0859 Inspector: Results Summary Freq. Date of Notification 2nd Insp Database Writing Insp Phone Insp Insp MG_AGD 5/5 28/10/2019 31/10/2019 05/12/2019 MG IHN 0/1 05/12/2019 28/10/2019 31/10/2019 05/12/2019 MG IPN 0/1 28/10/2019 31/10/2019 MG_ISA 28/10/2019 05/12/2019 0/1 31/10/2019 05/12/2019 MG PNST 5/5 28/10/2019 31/10/2019 MG SPVP 5/5 28/10/2019 31/10/2019 05/12/2019 0/1 28/10/2019 05/12/2019 MG_SAV 31/10/2019 0/1 MG_VHS 28/10/2019 31/10/2019 05/12/2019 BACT VVIS 4/5 08/11/2019 08/11/2019 05/12/2019 BACT_VSPE 4/5 08/11/2019 05/12/2019 08/11/2019 05/12/2019 BACT_PASS 4/5 08/11/2019 08/11/2019 HIST AMGD 3/5 02/12/2019 02/12/2019 05/12/2019 HIST_GPAT 5/5 02/12/2019 02/12/2019 05/12/2019 5/5 HIST_CGDH 02/12/2019 02/12/2019 05/12/2019 HIST EPIT 1/5 02/12/2019 02/12/2019 05/12/2019 4/5 05/12/2019 HIST_KPAT 02/12/2019 02/12/2019 HIST_SPAT 3/5 02/12/2019 02/12/2019 05/12/2019 Report Summary 2nd Insp Case Type Date Insp REP 01/11/2019 DIA 05/12/2019





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 SITE NO FS0859 INSPECTOR DATE OF VISIT 23/10/2019
SITE NAME Port Na Cro
CASE NO 20190625

Section 1: Summary Section 1: Summary

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

Histopathology examination revealed mild multifactorial gill pathology and multifocal hepatic necrosis. Nephrosis and splenitis were also noted. These lesions are likely associated with the isolation of Pasteurella skyensis. The presence of *Pasteurella skyensis* was confirmed by bacterial isolation and molecular genetic speciation, the level and purity suggest this bacterium would be implicated in fish morbidity. *Moritella viscosa* and *Vibrio* sp. were also identified.

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

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

Section 2: Case Detail

Observations

The above site was inspected following a report of increased mortality by the business. Inspection of records on site showed mortality levels of 2.4% and 5.62% for the previous two weeks respectively. Increased mortality was attributed to *Pasteurella skyensis*, complex gill disease and anaemia. During inspection of the site lethargic fish were observed in all cages. Five fish were removed for further examination and subsequent sampling.

External examination showed pale gills in all five fish. Haemorrhaging of the ventrum was observed on fish 3 and 5, and fish 2 had a distended abdomen. All five fish had an approximate sea lice load of 20 (all stages).

Internal examination showed pale hearts in all five fish, the heart of fish 1 also appeared deformed with fluid present in the sinus venosus. Clear ascites was present in the body cavity of fish 2 and 4, the kidney of both fish also appeared granular. Petechial haemorrhaging of the liver, pyloric caeca and body wall was observed in fish 3 and 5, fish 5 also displayed petechial haemorrhaging of the swim bladder, in which fluid was also present. Fish 1 and 5 had enlarged spleens and granulomas were present in the spleen of fish 3.

<u>Samples</u>

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

Fish number	Pool number	Facility number	Species	Stage	Origin
1-5	1	2	Atlantic salmon	3.8 kg 2018 Q4	Glenfinnan

Results

Bacteriology: Kidney and gill material from fish 1-5 was inoculated onto appropriate media for the isolation of bacteria.

The following bacteria were isolated:

- Pasteurella skyensis (F1, F3, F4 and F5, kidney)
- Moritella viscosa (F1-3, kidney. F1 and F5, gill)
- Vibrio sp. (F2-3, kidney. F2, F4 and F5, gill)

DNA sequence analysis was performed on a suspected *Pasteurella skyensis* colony. Results showed the isolate to be *Pasteurella skyensis*.

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

Salmon gillpox virus (SGPV)

Fish Number	Endogenous control Cp value		Cp Values							
F1	22.66	34.51	34.72	34.55	POSITIVE					
F2	22.97	>40	39.52	38.73	POSITIVE					
F3	22.23	35.12	35.01	34.90	POSITIVE					
F4	22.37	34.23	34.2	34.54	POSITIVE					
F5	22.54	37.22	37.12	38.69	POSITIVE					

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

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

Neoparamoeba perurans (AGD)

Fish Number	Endogenous control Cp value		Reported Result (PCR)		
F1	22.66	29.27	29.25	29.15	POSITIVE
F2	22.97	32.17	32.25	32.18	POSITIVE
F3	22.23	29.99	29.86	29.90	POSITIVE
F4	22.37	28.53	28.55	28.46	POSITIVE
F5	22.54	31.73	31.52	31.54	POSITIVE

Paranucleospora theridion

Fish Number	Endogenous control Cp value		Reported Result (PCR)		
F1	22.66	31.12	31.20	31.11	POSITIVE
F2	22.97	36.62	37.11	36.62	POSITIVE
F3	22.23	27.76	27.79	27.76	POSITIVE
F4	22.37	31.01	30.89	31.01	POSITIVE
F5	22.54	33.02	33.21	33.02	POSITIVE

Histology: Tissue samples of gill, skin and skeletal muscle, heart, pyloric caeca, pancreas, hind gut, liver, spleen and kidney were taken from fish 1-5. The tissue samples were fixed in 10% neutral buffered formalin.

Histopathological examination revealed the following:

<u>Gill:</u> Mild multifocal interlamellar hyperplasia and lamellar fusion and occasional lacunae (F1, F3 & F4). Occasional basophilic epithelial inclusions (likely epitheliocystis) (F3) and several amoebic cells resembling *Neoparamoeba perurans* (F1, F3, F4). Scattered aneurysmal dilation/telangiectasia and lamellar thrombosis noted in all fish. Generalized epithelial lifting likely associated with post-mortem artefact.

Skin & Muscle: Degeneration of single skeletal white fibres (F1).

Heart: Within normal range

<u>Gut and pyloric caeca:</u> Some fibrous adhesions (likely associated with vaccine administration) (all fish). Marked cell sloughing (likely associated with post-mortem artefact).

Pancreas: Within normal range.

<u>Liver:</u> Mild multifocal hepatic necrosis (F2) and F3 displayed focal thickness of the hepatic capsule.

<u>Kidney:</u> Presence of proteinaceous eosinophilic material filling the Bowman's space of some glomeruli and the same material was also noted within few renal tubules (F1, F3). Some individuals also displayed foci of haematopoietic tissue depletion (F1, F3-F5). Some inflammatory cell infiltration and few glomeruli displayed rod-shaped Gram-negative bacteria also noted in F5.

<u>Spleen:</u> Few foci white pulp depletion (F1, F3). F5 displayed one asteroid body in the parenchyma and minor infiltration of polymorphonuclear cells. The adipose tissue surrounding the spleen had small foci of haemorrhage (F5).

Signed:

Date: 05/12/2019

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





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
Site No FS0859
Inspector

 DATE OF VISIT
 23/10/2019

 SITE NAME
 Port Na Cro

 CASE No
 20190625

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

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

Records

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

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

Mortality records were inspected and found to be adequately maintained.

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

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.

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



Date: 01/11/2019

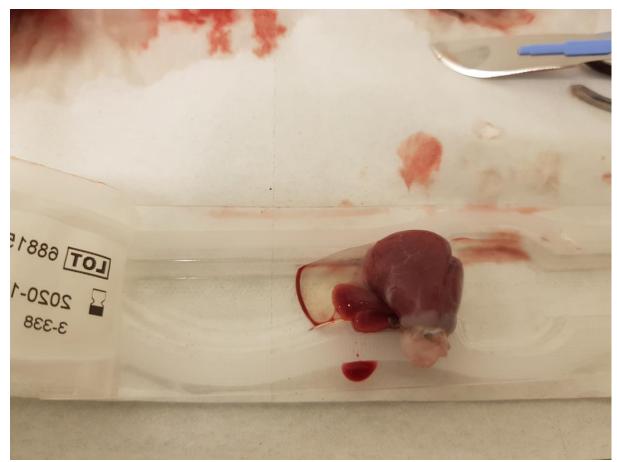
The Fish Health Inspectorate Service Charter detailing standards of service is available on the Marine Scotland website at www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter





F4-5





F1 Heart



F2







FHI 059, Version 12		Issued by: FHI	Date of issue: 08/10/2018
Case No: 2019-0627			Date of visit: 31/10/2019
Time spent on site: 5	hrs	Main Ins	pector:
Site No: FS0605 Business No: FB0119	Site Name: Business Name:	Creag an T'Sagairt (Loch Mowi Scotland Ltd	Hourn)
Case Types: 1 ECI 2	2 CNI 3 SLI	4 VMD 5	6
Water Temp (°C): 12.8	Thermometer No:	T148	FHI 045 completed
Observations:	Region: HI	Water type: S	CoGP MA M-22
Dead/weak/abnormally behaving Clinical signs of disease observed Gross pathology observed? Diagnostic samples taken?	•	N If yes, see additional	information/clinical score sheet. information/clinical score sheet. information/clinical score sheet.
UNI/REG only - if unable to carry	out intended visit deta	il reason below:	

Additional Case Information:

All pens inspected. Fish all behaving as normal and look to be in good condition. Fish sampled for VMD appeared healthy internally. All pens equipped with lice skirts and no lice noted. Site to begin harvesting week 45, 2019. Lumpsucker cleanerfish on site all from farmed source. No issues raised.

Site inspection and case paperwork carried out by while being audited b

FHI 059, Version 12			Issu	ed by: FHI			Date of issu	e: 08/10/2018				
Case No:	2019-0627]	Site No:	FS0605								
Date of Visit:		31/10/2019	9		Inspector(s):]				
Registration/Authornamental 1. Business/site deta 2. Changes made to	ails summary		site representa	ative?			Y Y	}				
Site Details												
Total No facilities		12	Facilities sto	cked	12	No facilitie	s inspected	12				
Species	SAL	LUM										
Age group	2018 Q2	2018										
No Fish	298,385	5,617										
Mean Fish Wt	7.4kg	150g										
Next Fallow Date (Site) Jan. 2020 Next Input Date (Site) July 2021												
Recent (last 4 wks) disease problems? N Any escapes (since last visit)? N If yes, detail:												
•												
Movement Records								V				
1. Movement record		or inspection?					00/00/0047	Y				
2. Date of last inspe		anthu antaradi	2				08/08/2017					
 Are records comp Are movement re 		•		,				Y				
5. Are records comp								Ÿ				
6. Are health certific		•		able?				N/A				
Transport Records		`	,									
Are any movement		ıt by (or on be	half) of the bu	ısiness (not usi	ing a STB)?			N				
If yes, is there a sys			•		_							
Mortality Records			·									
1. Mortality records	available for i	inspection?						Y				
2. How are mortalities of their detail:	es disposed o	of?			Biogas - Ene	ergen, Cumb	ernauld					
3. Mortality records	complete and	correctly ent	ered?					Y				
4. Recent mortality (•	r correctly error		0/19 (wk40 - 44	1) 5911 (2%)							
5. Evidence of recer	•	atynical morta		0/10 (WK40 4-	+) 0011 (270)			N				
If yes, facility nos/no				/reason:								
,,, , ,	The state of the s											
6. Any other peaks i	n mortality du	ring period cl	hecked?					N				
If yes, detail:												
7. Have increased (inexplained)	mortalities be	en reported to	vet or FHI?				N/A				
If yes, detail action:												
8. Have 'mortality ev	ents' been re	ported to FH	l? If no, add M	IRT case and e	enter on morta	ality events s	sheet.	N/A				

ii yes, detaii.	mosan	
If other, detail:		
2. Medicines records available for inspection?		Y
3. Are records complete and correctly entered	1?	Y
4. Are fish in a withdrawal period?		Y
5. If yes, what treatment(s)?	T.M.S., Salmosan	
If other, detail:		
6. Are medicines stored appropriately?		Y
Biosecurity Records		
1. Biosecurity records available for inspection?	?	Y
2. Has the manner and frequency of mortality	removal, recording and safe disposal been considered?	Y
3. Has the manner and period in which the AF	PB will notify Scottish Ministers or veterinary professional of any	
increased (unexplained) mortality at the site b	been included?	Y
4. Has the action that will be taken in the even	nt that the presence or suspicion of the presence of a listed disease	Y
is detected been included and how and when	that will be notified to Scottish Ministers?	
5. Has the health status of aquaculture animal	lls being stocked on the farm site been covered (equal or higher	Y
health status, certification if required)?	·	
	ures implemented between each epidemiological unit to minimise	Y
transmission of disease been covered (mover	ment of staff, visitors, equipment, live or dead fish etc.)?	
	neasures in place to maintain the physical containment of	Y
aquaculture animals held on site?		
8. Have the biosecurity procedures been adec	quately implemented on site?	Y
If no, detail:		
Results of Surveillance		
1. Has any animal health surveillance been ca	arried out by or on behalf of the business?	Υ
2. If yes, are results available for inspection?	arried out by, or orr borian or, the business.	Y
3. Any significant results?		N
If yes, detail (if not detailed under recent disea	ase problems)	
in you, detail (in flot detailed differ recent disease	ace presiding).	
Pagarda abadkad batusan	00/00/2017 21/10/2010	

08/08/2017 - 31/10/2019

VMD No.

Inspector:

	Environmental conditions:	1		2	3	4	5		
	Summary samples	HIST		ВА	MG	VI	PA	Total Sa	amples
A	dd Fish/Pools - click								
	Pool/Fish No								
	Fish nos	1	2						
	Pool Group								
	Species	SAL	SAL						
	Average weight	7.4000	7.4000						
	Sex	N/A	N/A						
	Water Type	SW	SW						
tock Details	Stock Origin Facility No	Loch Lochy	Loch Lochy						
Ċ,	Facility No	10	3						

Time sampling

starts/ends:

	Addition	nal Sam	ple Infor	mation:										
0	l	Total To	ests ass	igned	0	l								

FHI 059, Version 12		Issued by: FHI			Date of	of issue	: 08/10/2018
Case Number:	2019-0627		Site No:	FS0605		Insp:	
Date of Visit	31/10/2019		No of movements/supp./dest.				Score
Live fish movements			0	1-5	6-10	>10	
Movements on (from out	Frequency of n	novements on from equivalent MS	0	5	10	14	0
with GB) of susceptible species		novements on from equivalent zone or	0	9	18	26	0
Special Control of the Control of th	Number of sup	ncluding third country	0			14	0
Mayamanta off							10
Movements off	Frequency of n Number of des		0			10 10	10
Exposure via water	rtuiliber er des	Site contacts		_			
Water contacts with other	Farm is protect	ted (secure water supply through					
farms (holding species	disinfection or l	,	0				igwdow
susceptible to same diseases)		or in a coastal zone with category I n or within 1 tidal excursion	1	2	4		1
,		or in a coastal zone with category III					\vdash
		n or within 1 tidal excursion	1	3	6		\mathbf{L}
		or in a coastal zone with category V n or within 1 tidal excursion	1		8		
	iaiiiis upstreaii	I Of Within T tidal excursion	<u>'</u>	4	°		$\overline{}$
Management practices			None	Secure	Unsecure		
Water contacts with processors	Any processing	g plant discharging into adjacent waters	0	1	2		0
On farm processing within the rules of the directive	No on farm pro	cessing	0				
	Processing own	n fish (re-cycling risk)	1				1
	Processing fish	from MS of equivalent status	2				
	Processing fish equivalent state	n from zone or compartment of us	4				
	Processing fish	n from Category III farm	8				
	Processing fish	n from Category ∨ farm	10				
Disposal of fish and fish by-	Site's own was	te only processed.	0	Ī			0
products	Common proce	esses with other farms	3				-
	Collection poin	t for waste from other farms	5				-
Use of unpasteurised feeds	No feeding of u	inpasteurised feed	0	i			0
·	Feeding unpas	teurised 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 s	taff and equipment	0	1	2		0
Disinfection of equipment	Yes		0				0
between sites, use of footbaths etc	No		1				\vdash
CoGP/Regulator				,			
Practices in accordance	Yes		0]			0
with regulator or industry code of practice	No		3				┝─┤
code of practice				J			
Platform access to cages	Yes		0				0
	No		2				
					Total		15
					Rank		LOW

Case No:	2019-0627	Site No: FS0605							
Sea Lice Inspection (S	Seawater Sites Only)								
 Has the site experier 	iced sea lice problems	s in the previous 4 years?	N						
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 (<i>L. salme</i> records are inspected?		low the suggested criteria for treatment in the CoGP during the period that	Υ						
_	•	<i>monis</i>) numbers per fish been at a level of 3 or above (prior to w/b 10/6/19) or od that records are inspected?	r N						
If yes, have these been	reported to the Fish I	Health Inspectorate? If no, FHI see comment.	N/A						
9. Is <i>C. elongatus</i> infes	tation at a level which	is considered to cause significant welfare problems? (CoGP 4.3.81, 5.3.50)	N						
•		stered or other actions taken when <i>L. salmonis levels</i> have exceeded the <i>elongatus</i> is considered to have welfare implications? (CoGP 4.3.82, 5.3.51)	N/A						
11. Has any other actio	n been taken (where a	applicable)?	N/A						
•	•	is taken had a significant impact upon the lice levels recorded?	N/A						
•			N/A						
13. Are treatments, where conducted, carried out in cooperation between participating farms? N. 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 Y scenarios during the escalation of a sea lice infestation?									
16. Do the sea lice leve	ls observed on stocks	reflect sea lice count data? If no please detail reasons.	Y						
Containment Inspecti	on								
 Has the site experier 	iced equipment dama	ge due to predators in the current or previous production cycles?	Υ						
2. Are measures in plac	ce to mitigate against	the predation experienced on site? (Detail below)	Υ						
Tensioned Nets, Top	Nets, A.D.D, MML								
If other, detail below:									
 Have escape incider 	nts or events been exp	perienced on or in the vicinity of the site since the last FHI inspection?	N						
If Yes proceed with que	stions 4 – 9. If No skij	p to question 10							
4. Have these been rep	orted to Scottish Minis	sters?							
		orthwith (where they exist)? (CoGP - 4.4.37, 5.4.17)							
6. Have these been rep	orted to the SSPO an	d local fisheries trusts forthwith (where they exist)? (CoGP – 4.4.37, 5.4.17)							
7. Were methods (if any	y) used to recover esc	apees? If yes give detail							
8 If all nots were deplo	wed was this action a	greed with local wild fish interests and was permission given by Scottish							
Ministers? (Legal, CoG	P – 4.4.38, 5.4.18)								
		imise the risk of further escapes? (Not covered in code but could							
be considered under	•	·							
10. Is the site inspected	l as satisfactory with r	egards to containment? If no, please detail reason(s)	Υ						

Issued by: FHI

FHI 059, Version 12

Date of issue: 08/10/2018

FHI 059, Version 12	Issued by: FHI	Date of issue: 08/10/2018
Case No: 2019-0627	Site No: FS0605	
Date of Visit: 31/10/2019	Inspector:	
Point of Compliance		
1. Is the farm under inspection located	within a farm management area?	Y
If N, no further questions require compl	etion.	
Points of Compliance for Both Farm	Management Agreements and Statements	
3. Is the current FMAg/S available for ir4. Does the FMAg/S identify the relevant5. Does the FMAg/S identify the fish far	nt farm management area? rm site(s) to which it applies? f commencement of the agreement or statem	Y Y Y
Arrangements for Fish Health Manag	gement	
farm?	um health standards for the stocks to be introduced ation requirements for stocks held in the area	
10. Does the FMAg/S identify the speci	ies of fish which may be stocked into the area mum stocking density of any pen on any farm	or farm?
12. Does the FMAg/S identify the arran fish farm in the area or the individual fa	gements for the storage and disposal of any carm?	dead fish from any
Arrangements for The Management	of Sea Lice	
13. Does the FMAg/S identify arrangem	nents for the sharing of data on sea lice numb	ers and treatments?
14. Does the FMAg/S identify the available of statement?	ability and the use of medicines on farms cove	ered by the agreement Y
15. Does the FMAg/S identify any requilice on farms in the area or individual fa	irements for the sensitivity testing of available arms?	
16. Does the FMAg/S identify the circur used on farms in the area or individual	mstances under which biological controls and farms?	
17. Does the FMAg/S identify the arran	gements for synchronous treatments on farm	s within the area?
Live Fish Movements		
area or farm?	mstances when live fish may be introduced or gements for the movement of live fish on and	

FHI 059, Version 12	Issued by: FHI	Date of	f issue: 08/10/2018
Harvesting			
20. Does the FMAg/S identify acceptable harvest p	practices on farms in the area or	individual farms?	Υ
Fallowing			
21. Does the FMAg/S identify the dates by which the date when a farm or area may be restocked?	ne area or individual farm will be	fallow and the earliest	Υ
22. Does the FMAg/S identify whether one or more agreement or statement?	year classes may be stocked or	nto sites covered by the	Y
23. Does the FMAg/S identify whether broodstock covered by the agreement or statement?	or potential broodstock are to be	kept on any site	Y
Point of Compliance for Farm Management Agr	reements Only		
24. Does the farm management agreement include parties to the agreement?	e arrangements for persons to be	ecome, or cease to be,	N/A
Management and operation			
25. Is the fish farm being managed and operated in	n accordance with the agreemen	t or statement?	Y
26. What is the version no/date of issue of the FMA	Ag/S? 01/03/2018		

Case No:	2019-0627	Date of visit: 31/10/2019						
Site No:	FS0605	Inspector:						
Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp
			<u> </u>					
Danart Cumman								
Report Summary Case Type	D 1		- nd -					
Case Type	Date	Insp	2 nd Insp					
ECI, CNI, SLI, VMD	04/11/2019							





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** 31/10/2019

SITE NO FS0605 SITE NAME Creag an T'Sagairt (Loch Hourn)

INSPECTOR CASE No 20190627

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

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

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

Records

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

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

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

Mortality records were inspected and found to be adequately maintained.

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

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

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

Medicine records were inspected and found to be adequately maintained.

Samples were taken to be analysed for veterinary residues.

Inspection under the Aquaculture and Fisheries (Scotland) Act 2007

The site was also inspected in accordance with the Aquaculture and Fisheries (Scotland) Act 2007, as amended, with respect to section 3 regarding parasites (sea lice), section 4A regarding fish farm management agreements and statements and section 5 regarding containment and escapes.

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

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



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

FHI 059, Version 12	ls	ssued by: FHI	Date of issue: 08/10/2018
Case No: 2019-0632			Date of visit: 22/10/2019
Time spent on site:	min	Main Inspecto	or:
Site No: SS0917 Business No: SB0544	Site Name: Business Name:	John Muir Building Heriot Watt University	
Case Types: 1 INF	3	4 5	6
Water Temp (°C):	Thermometer No:		FHI 045 completed
Observations:	Region: LO	Water type: S	CoGP MA
Dead/weak/abnormally behaving Clinical signs of disease observed Gross pathology observed? Diagnostic samples taken?	•	If yes, see additional infor	mation/clinical score sheet. mation/clinical score sheet. mation/clinical score sheet.
UNI/REG only - if unable to carry	out intended visit detail	reason below:	

Additional Case Information:

Information received from commercial samples of 7/30 positive results for Bonamia ostreae by PCR. Inspector on route to collect further samples. IDN placed 22/10/19.

Case No:	2019-0632	Date of visit: 22/10/2019						
Site No:	SS0917	Inspector:						
Results Summary	Freq.	Date of Notification						
		Database	Insp		Insp	Writing	Insp	2 nd Insp
		<u> </u>						
Report Summary								
Case Type	Date	Insp	2 nd Insp					
INF - no report	30/10/2019		Z IIISP					
ii ii iio roport	00/10/2010							