FHI 059, Version 12		Issued by: FHI	Date of issue: 08/10/2018
Case No: 2019-0300			Date of visit: 12/11/2019
Time spent on site:	hours	Main Ins	spector:
Site No: FS1033 Business No: FB0119	Site Name: Business Name:	North Shore Mowi Scotland Ltd	
Case Types: 1 WEL	2 3	4 5	6
Water Temp (°C):	Thermometer No:		FHI 045 completed
Observations:	Region: WI	Water type: S	CoGP MA W-3
Dead/weak/abnormally behaving Clinical signs of disease observe Gross pathology observed? Diagnostic samples taken?	•	Y If yes, see additiona	I information/clinical score sheet. I information/clinical score sheet. I information/clinical score sheet.
UNI/REG only - if unable to carry	out intended visit deta	il reason below:	

#### **Additional Case Information:**

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

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

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

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

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

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

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

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

FHI 059, Version 12			Issu	ed by: FHI			Date of issu	e: 08/10/2018
Case No:	2019-0300	]	Site No:	FS1033				
Date of Visit:		12/11/2019	]		Inspector(s)	:		]
Registration/Author 1. Business/site deta 2. Changes made to	ails summary		ite representa	ative?			Y N	}
Site Details								
Total No facilities		17	Facilities sto	cked	6	No facilitie	s inspected	1/
Species	SAL	LUM						
Age group	q4 2018	Mix						
No Fish	311,458	43,876						
Mean Fish Wt	3.2 Kg	Mix						
Next Fallow Date (S	ite)	June/July 20	20	Next Input Da	ite (Site)	November	2020	
Recent (last 4 wks) of the second (last 4 wks) o	disease probl AGD	ems?		Y	Any escape	s (since last	visit)?	N
Movement Records	<b>.</b>							
<ol> <li>Date of last inspects.</li> <li>Are records computed.</li> <li>Are movement responses.</li> <li>Are records computed.</li> </ol>	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?							Y Y Y Y
Transport Records  1. Are any movement If yes, is there a system.	nts carried ou		•	•	_			
Mortality Records								
1. Mortality records a		•						Y
2. How are mortalitied of their detail:	es disposed o	f?			Ensiled - on	site		
	complete and	correctly ente	ared?					Y
	3. Mortality records complete and correctly entered?  12/10 - 2.27% (10,441) 20/10 - 6.83% (29,407) 27/10 - 7.66%							
4. Recent mortality (last 4 wks): (30,634)3003/10 - 15.59% 88,472								
5. Evidence of recent increased/atypical mortalities?  Y  If yes, facility nos/no mortality per facility/no stock per facility/reason:								
pens 2 and 4 worst a		Tability/110 Sto	ok per idollity	reason.				
6. Any other peaks in		ring period ch	necked?					N
If yes, detail:								
7. Have increased (u	unexplained)		•	vet or FHI?				Y
If yes, detail action:		Reported to						
8. Have 'mortality ev	ents' been re	ported to FHI	? If no, add M	RT case and e	enter on mort	ality events s	sheet.	Y

If yes, detail:	T.M.S., Salmosan	
If other, detail:		
	s available for inspection?	Y
•	lete and correctly entered?	Y
4. Are fish in a withd	· · · · · · · · · · · · · · · · · · ·	Y
5. If yes, what treatm	nent(s)? T.M.S., Salmosan	
If other, detail:		NI/A
6. Are medicines sto	red appropriately?	N/A
<b>Biosecurity Record</b>	ls .	
1. Biosecurity record	s available for inspection?	
2. Has the manner a	nd frequency of mortality removal, recording and safe disposal been considered?	
	nd period in which the APB will notify Scottish Ministers or veterinary professional of any	
increased (unexplain	ned) mortality at the site been included?	
	at will be taken in the event that the presence or suspicion of the presence of a listed disease	
	luded and how and when that will be notified to Scottish Ministers?	
health status, certific	atus of aquaculture animals being stocked on the farm site been covered (equal or higher	
ricaliti Status, Certino	auon ii requireu):	
6 Have the husband	dry and biosecurity measures implemented between each epidemiological unit to minimise	
	ase been covered (movement of staff, visitors, equipment, live or dead fish etc.)?	
	available regarding the measures in place to maintain the physical containment of	
aquaculture animals		
8. Have the biosecur	rity procedures been adequately implemented on site?	
If no, detail:		
Results of Surveilla	ance	
· ·	ealth surveillance been carried out by, or on behalf of, the business?	
•	available for inspection?	
3. Any significant res		
if yes, detail (if not d	etailed under recent disease problems).	

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

Case No:	2019-0300	Date of visit: 12/11/2019						
Site No:	FS1033	Inspector:						
Results Summary	Freq.			Dat	te of Notificat	tion		
		Database	Insp		Insp	Writing	Insp	2 <sup>nd</sup> Insp
Report Summary								
Case Type	Date	Inco	and I					
WEL		Insp	2 <sup>nd</sup> Insp					
VVCL	18/11/2019							
			<b>—</b>					
			<del></del>					





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 FS1033
INSPECTOR

DATE OF VISIT 12/11/2019
SITE NAME North Shore
CASE NO 20190300

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

### Records

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

Mortality records were inspected and found to be adequately maintained.

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

Signed:

Date: 18/11/2019

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Marine Scotland website at <a href="https://www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter">www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter</a>

FHI 059, Version 12		Issued by: FHI	Date of issue: 08/10/2018
Case No: 2019-0394			Date of visit: 25/11/2019
Time spent on site:	irs	Main Inspec	tor:
Site No: SS0901 Business No: SB0544	Site Name: Business Name:	Dornoch Firth West Heriot Watt University	
Case Types: 1 STS 2	2 3	4 5	6
Water Temp (°C): 6.8	Thermometer No:	T153	FHI 045 completed
Observations:	Region: HI	Water type: S	CoGP MA
Dead/weak/abnormally behaving to Clinical signs of disease observed Gross pathology observed? Diagnostic samples taken?	•	N If yes, see additional info	ormation/clinical score sheet. ormation/clinical score sheet. ormation/clinical score sheet.
UNI/REG only - if unable to carry	out intended visit deta	nil reason below:	

#### **Additional Case Information:**

Site visited following positive QPCR/sequencing for Bonamia ostrea, site was screening shells before relaying for restoration project. Site visited on 23/11/19, however due to conditions experienced on site, unable to collect the 150 shell sample, therefore follow-up visit scheduled for 25/11/19, 164 shells collected - both stocks on site (10 Loch Ryan and 154 Sgeir Liath).

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

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

FHI 059, Version 12			Issu	ed by: FHI			Date of issu	ie: 08/10/2018
Case No:	2019-0394		Site No:	SS0901				
Date of Visit:		25/11/2019	]		Inspector(s):			]
Registration/Autho 1. Business/site deta 2. Changes made to	ails summary		ite representa	ative?			Y N	- -
Site Details Total No facilities Species	OED	15	Facilities sto	cked	15	No facilitie	es inspected	0
Age group No Fish	MIXED ~6,000							
Mean Fish Wt	MIXED	NI/A		N (1 (5	(0:1-)			
Next Fallow Date (S	ite)	N/A		Next Input Da	ate (Site)	Spring?		
Recent (last 4 wks) of If yes, detail:		ems? ·Bonamia ost	rea	Y	Any escapes	s (since last	visit)?	N/A
Movement Records 1. Movement record 2. Date of last inspec 3. Are records comp 4. Are movement records comp 6. Are records comp 6. Are health certification Transport Records 1. Are any movement If yes, is there a systematical	s available for ction: lete and corre cords available lete and corre ates for introd	ectly entered? le for dead fis ectly entered? luctions (outwo	h and waste?	able? usiness (not us	_		N/A	N/A N/A N/A N/A
Mortality Records  1. Mortality records a  2. How are mortalities	available for in	nspection?	·		Other (detail	)		N/A
If other detail: 3. Mortality records of 4. Recent mortality (	•	correctly ento	ered? N/A					N/A
5. Evidence of recently fyes, facility nos/no		• •		/reason:				N/A
6. Any other peaks in If yes, detail:								N/A
7. Have increased (ulif yes, detail action: 8. Have 'mortality ev	. ,		·		enter on morta	ality events :	sheet.	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?		
3. Are records complete and correctly entered?		
4. Are fish in a withdrawal period?		
5. If yes, what treatment(s)?		
If other, detail:		
6. Are medicines stored appropriately?		
Biosecurity Records		
Biosecurity records available for inspection?		
2. Has the manner and frequency of mortality removal,		
3. Has the manner and period in which the APB will not	•	al of any
increased (unexplained) mortality at the site been inclu	uded?	
4. Has the action that will be taken in the event that the	processes or cuspicion of the processes of a li	stad disease
is detected been included and <i>how</i> and <i>when</i> that will		sied disease
5. Has the health status of aquaculture animals being s		or higher
health status, certification if required)?	(equal)	
, , ,		
6. Have the husbandry and biosecurity measures imple	emented between each epidemiological unit to	minimise
transmission of disease been covered (movement of st	taff, visitors, equipment, live or dead fish etc.)	?
7. Is documentation available regarding the measures i	in place to maintain the physical containment	of
aquaculture animals held on site?		
8. Have the biosecurity procedures been adequately im	plemented on site?	
If no, detail:		
Results of Surveillance		
Has any animal health surveillance been carried out	by or on behalf of the business?	Y

Bonamia ostrea - commercial sample.

N/A - University, not required to records

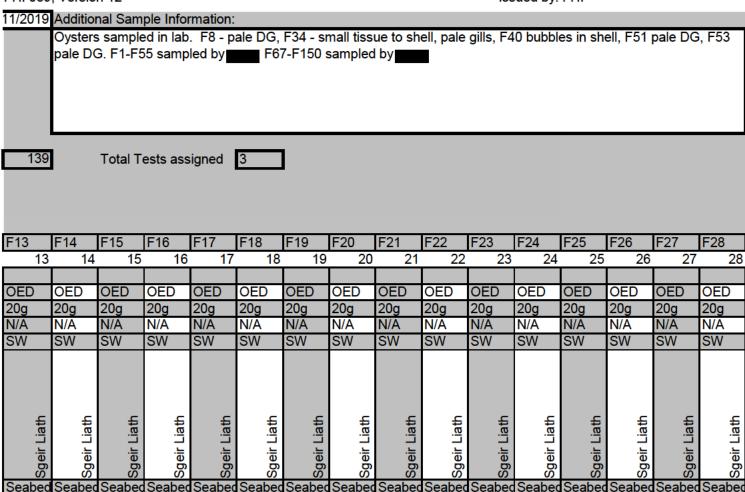
2. If yes, are results available for inspection?

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

Records checked between:

3. Any significant results?

Г	11 059, Version 12							155	ueu by.	ГП			
	Case no:	2019-03	394	Site No:		SS0901			Date of		25/	11/2019	26/
	Priority samples:	VI		ВА		PA		MG	Samplin	g: HI		l	
	Time sampling starts/ends:	09:3	0:00	12:3	0:00		Inspecto	or:			VMD N	o.	0
	Environmental conditions:	1	Indoors	2		3		4		5			
	Summary samples	HIST		ВА		MG	Υ	VI		PA		Total Sa	amples
Α	dd Fish/Pools - click												
	Pool/Fish No	F1	F2	F3	F4		F6	F7	F8	F9	F10		F12
	Fish nos	1	2	3	4	5	6	7	8	9	10	11	12
	Pool Group												
	Species	OED	OED	OED	OED								
	Average weight	40g	40g	40g	40g	40g		40g	40g	40g	20g	20g	20g
	Sex	N/A		N/A		N/A		N/A		N/A	N/A	N/A	N/A
	Water Type	SW	SW	SW	SW								
Stock Details	Stock Origin Facility No	Loch Ryan, Shore Site and Buildings	Sgeir Liath	Sgeir Liath	Sgeir Liath								



Case No:	2019-0394			Date of visit:	25/11/2019			
Site No:	SS0901	Inspector:						
Results Summary	Freq.			Da	te of Notificat	tion		
		Database	Insp	Phone	Insp	Writing	Insp	2 <sup>nd</sup> Insp
MG_Bon sp.	6/139	09/12/2019				23/11/2019		
MG_Bon PCR	8/8	09/12/2019				23/11/2019		
BOST	3/3	09/12/2019				23/11/2019		
MG Sequencing Bon	1/1	09/12/2019				23/11/2019		
Report Summary								
Case Type	Date	Insp	2 <sup>nd</sup> Insp					
Case Type STS	23/11/2019							





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

# FISH HEALTH INSPECTORATE VISIT REPORT

#### SUMMARY FOR INFORMATION OF SITE OPERATOR

**BUSINESS No** SB0544 **DATE OF VISIT** 25/11/2019

SITE No SS0901 SITE NAME Dornoch Firth West

INSPECTOR CASE No 20190394

## Statutory test

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

## **Samples**

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

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

#### Results

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

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

F110 was sequenced and confirmed to be Bonamia ostreae.

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

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

## **Appraisal**

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

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

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



Signed: Date: 23/12/19

Fish Health Inspector

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Marine Scotland website at <a href="https://www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter">www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter</a>

Case 2019-0394 (Dornoch Firth West)



Image 1: F51 (pale digestive gland)



Image 2: F53 (pale digestive gland)



Image 3: F8 (pale digestive gland)



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

FHI 059, Version 12		Issued by: FHI	Date of issue: 08/10/2018
Case No: 2019-0559			Date of visit: 13/11/2019
Time spent on site:	hours	Main Ir	nspector:
Site No: FS1297 Business No: FB0119	Site Name: Business Name:	Tabhaigh Mowi Scotland Ltd	
Case Types: 1 REG	2 REP 3 DIA	4 5	6
Water Temp (°C): 11.4	Thermometer No:	T275	FHI 045 completed
Observations:	Region: WI	Water type: S	CoGP MA W-3
Dead/weak/abnormally behaving Clinical signs of disease observe Gross pathology observed? Diagnostic samples taken?	•	Y If yes, see addition	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	il reason below:	

#### Additional Case Information:

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

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

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

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

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

FHI 059, Version 12		_	Issu	ed by: FHI	_		Date of issu	e: 08/10/2018		
Case No:	2019-0559		Site No:	FS1297						
Date of Visit:	13/11/2019 Inspector(s):									
Registration/Authorisation Details  1. Business/site details summary checked by site representative?  2. Changes made to details?										
Site Details										
Total No facilities		10	Facilities sto	cked	3	No facilitie	s inspected	10		
Species	SAL	LUM	WRA							
Age group	2018 q4	Mix	Mix							
No Fish	128,254	24,589	5,542							
Mean Fish Wt	3.587 Kg	Mix	Mix							
Next Fallow Date (S	ite)	November 2	019	Next Input Da	te (Site)	November	2020			
Recent (last 4 wks)	disease probl	ems?		Y	Any escapes	(since last	visit)?	N		
If yes, detail:	Anaemia				, ,	`	,			
Movement Records	5									
1. Movement record	s available fo	r inspection?						Y		
2. Date of last inspec							28/05/2019			
3. Are records comp		ectly entered?	•					N		
4. Are movement re	cords availab	le for dead fis	h and waste?	•				Y		
5. Are records comp	lete and corr	ectly entered?	•					Y		
6. Are health certification	ates for introd	ductions (outw	ith GB) availa	able?				N/A		
Transport Records										
1. Are any movemen		t by (or on be	half) of the bu	ısiness (not usi	ing a STB)?					
If yes, is there a syst			•	•	_					
Mortality Records										
Mortality records a	available for i	nspection?						Y		
2. How are mortalitie	es disposed o	f?			Ensiled - on :	site				
If other detail:										
Mortality records complete and correctly entered?  Y										
Oct 12 - 1.17% (8898) 19/10 2.69% (6269) 26/10 - 3.95% (8967) 02/11 - 4. Recent mortality (last 4 wks): 3.17% (6901)								02/11 -		
• •	5. Evidence of recent increased/atypical mortalities?									
If yes, facility nos/no		••		/reason:						
Pen 23/25 443/274 per day										
6. Any other peaks in mortality during period checked?										
If yes, detail: Aug - Salmosan treatment, anaemia. 39,575 over the month										
7. Have increased (unexplained) mortalities been reported to vet or FHI?								Y		
If yes, detail action: FVG and Health specialists called onto site. See additional comments for report								t		
8 Have 'mortality events' been reported to FHI2 If no, add MRT case and enter on mortality events sheet										

ii otner, detaii.			
2. Medicines records	s available for inspection?		Y
3. Are records compl	plete and correctly entered?		Y
4. Are fish in a withdr	Irawal period?		Y
5. If yes, what treatm	nent(s)? T.M.S., Salmo	san	
If other, detail:			
6. Are medicines sto	ored appropriately?		Y
Biosecurity Record	de	•	
_	ds available for inspection?		
•	and frequency of mortality removal, recording and safe o	disposal heep considered?	
	and period in which the APB will notify Scottish Ministers	•	
	ined) mortality at the site been included?	or veterinary professional or arry	
morodood (dnoxpidii	mortality at the site been included.		
4 Has the action tha	at will be taken in the event that the presence or suspicion	on of the presence of a listed disease	
	luded and <i>how</i> and <i>when</i> that will be notified to Scottisl		
5. Has the health sta	atus of aquaculture animals being stocked on the farm s	site been covered (equal or higher	
health status, certific	•	` ' '	
6. Have the husband	dry and biosecurity measures implemented between each	ch epidemiological unit to minimise	
transmission of disea	ase been covered (movement of staff, visitors, equipme	ent, live or dead fish etc.)?	
7. Is documentation a	available regarding the measures in place to maintain the	he physical containment of	
aquaculture animals	held on site?		
	rity procedures been adequately implemented on site?		
If no, detail:			
Results of Surveilla	ance		
4. 11		ha hin aan2	
-	ealth surveillance been carried out by, or on behalf of, the	ne business?	ľ
•	available for inspection?		T V
3. Any significant res	_	Consolitional comments	Y
ir yes, detail (if not de	letailed under recent disease problems).	See additional comments	

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

r.	11 059, Version 12							1550	ed by. Fill		
	Case no:	2019-0	559	Site No:		FS1297			ate of visit/ ampling:	13/	11/2019 14/ <sup>-</sup>
	Priority samples:	VI		ВА		PA		MG		н	l
	Time sampling starts/ends:		30:00		0:00		Inspecto	r:		VMD No	o. 0
	Environmental conditions:	1	Indoors	2		3	ш	4		5	
	Summary samples	HIST	Υ	ВА	Υ	MG	Υ	VI Y	PA		Total Samples
A	dd Fish/Pools - click										
	Pool/Fish No	F1	F2	F3	F4	F5	P1				
	Fish nos	1	2	3	4	5	1-5				
	Pool Group	P1	P1	P1	P1	P1					
	Species	SAL	SAL	SAL	SAL	SAL	SAL				
	Average weight	3.587 K	3.587 K	3.587 K	3.587 K	3.587 K	3.587 Kg				
	Sex	N/A	N/A	N/A	N/A	N/A	N/A				
	Water Type	SW	SW	SW	SW	SW	SW				
		>	>	>	>	>					
ails		뒫	ဗွ	ch	ch	ch					
Details		L	ا ا	Lo	۲	L					
	0(1-0-1-1-	och Lochy	Loch Lochy	Loch Lochy	Loch Lochy	Loch Lochy					
Stock	Stock Origin	_	_	1							
S	Facility No	4	4	5	5	5					

11/2019	11/2019 Additional Sample Information:										
6	j	Total To	ests ass	igned	5	1					
	_										
	l										
	l										
	l										
	l										
	l										

FHI 059, Version 12 Issued by: FHI Date of issue: 08/10/2018 Method of killing: Percussive Case no: FS1297 2019-0559 Site No: Inspector(s): Sheet Relevant: Y Date of visit: 13/11/2019 S for strong presence: M for medium presence: W for weak presence Fish Number Time sampled after death (if > 45 minutes) External Signs Behaviour Moribund Lethargic S Hanging vertical Spiralling Flashing Loss of equilibrium Body Dark Distended abdomen Scale Oedema Opercula Shortened Flared M Haemorrhaging Throat Ventrum Base of fins Elsewhere Eyes Exophthalmic Enophthalmic (sunken) Cataract Haemorrhagic Gills Pale W W W W W Zoned Necrotic M Lesions Flank Elsewhere S Vent M M Inflamed Trailing faeces Lice Load Estimate numbers Internal Signs Clear Ascites M М Bloody Oedema In tissues Heart Pale/anaemic Granulomas Deformed Liver Petechial haem Gross haem Tissue breakdown Enlarged Colour number(s) Granulomas Lesions М 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

M

Grey

General

Granular Liquefied Parasites present

Anaemia

Case no: 2019-0559

Date of visit: 13/11/2019

Stortstorag presence: M for welding presence: W for w	Date of visit.	13/11/20	10					
Time sampled after death (if - 45 minutes) Ekhaviour Ekharal Signa Ekhaviour Hanging vertical Spiralling Flashing Loss of equilibrium Body Dark Ancresic Ancresic Ancresic Flashing Flashing Flashing Flashing Loss of equilibrium Body Dark Ancresic Ancresic Ancresic Flashing Flashing Flashing Flashing Flashing Loss of equilibrium Body Dark Ancresic Ancresic Flashing Flashi	S for strong preser	nce: M for medium presence: W fo	ог м					
External Signs Behaviour Lethargic Hanging vertical Spiralling Flashing Loss of equilibrium Body Dark Olstended abdomen Anorexic Scale Oedema Opercula Shortened Flared Haemorrhaging Base of fins Elsewhere Estophthalmic (sunken) Cataract Haemorrhagic Gills Flared Haemorrhagic Flared Haemorrhagic Gills Flared Haemorrhagic Granulomas Gills Granulomas Gills Granulomas Gills Granulomas Gills Gills Flared Haemorrhagin Fluid filled Haemorrhagin Granulomas G	Fish Number							
Behaviour   Moribund	Time sampled aft	er death (if > 45 minutes)						
Lethargic	External Signs							
Hanging vertical	Behaviour							
Spiralling								
Flashing								
Loss of equilibrium								
Body   Dark								
Distended abdomen		Loss of equilibrium						
Anorexic   Scale Dedema   Scale De	Body							
Scale Codema								
Sportened								
Flared								
Haemorrhaging   Throat	Opercula							
Nentrum					_			
Base of fins	Haemorrhaging							
Elsewhere								
Export   E								
Enophthalmic (sunken)	F							
Cataract	Lyes							
Haemorrhagic								
Gills								
Zoned	Cilla							
Necrotic	Gills							
Lesions					_			
Elsewhere	Lasiana							
Unit	Lesions							
Trailing faeces	Vent							
Lice Load	vent			_				
Internal Signs	Lical and				_			
Ascites   Clear   Bloody   B	LICE LOAD	Estimate numbers						
Ascites   Clear   Bloody   B	Internal Signs							
Bloody		Clear						
Oedema         In tissues           Heart         Pale/anaemic           Granulomas         Image: Company of the part o	Ascites			_	_			
Heart	Oedema							
Granulomas				_	_			
Deformed	rioure							
Liver				_				
Gross haem	Liver							
Tissue breakdown   Enlarged   Colour number(s)	2.70.							
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 Granular Liquefied General								
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 Granular Liquefied General Parasites present								
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 Kidney Granular Granular Liquefied General Fluid filled General	Pyloric caeca							
Lack of fat								
Spleen         Enlarged								
Granulomas	Spleen							
Gut         No food present								
Yellow pseudo-faeces	Gut	No food present						
External haem		Yellow pseudo-faeces						
Body wall         Haemorrhaging         Image: Control of the control								
Swim bladder         Haemorrhaging		Internal haem						
Swim bladder         Haemorrhaging								
Kidney         Swollen	Swim bladder							
Grey								
Granular	Kidney							
Liquefied								
General Parasites present								
Angemia	General							
IAIIaEIIIIa		Anaemia						

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

Site No: FS1297

Case No: 2019-0559

Nature of non-compliance:
Action taken (FHI):
Non-compliance relevant to (delete): VirologyMolGen/Bacteriology/Histology/Parasitology

Case No: 2019-0559 Date of visit: 13/11/2019 Site No: FS1297 Inspector: Results Summary Freq. Date of Notification Writing 2<sup>nd</sup> Insp Database Insp Phone Insp Insp AGDQ 5/5 20/11/2019 20/11/2019 19/12/2019 **PNST** 5/5 20/11/2019 20/11/2019 19/12/2019 SPVP 5/5 20/11/2019 20/11/2019 19/12/2019 20/11/2019 20/11/2019 **IHNP** 0/1 19/12/2019 **IPNP** 0/1 19/12/2019 20/11/2019 20/11/2019 **IPNM** 0/1 20/11/2019 20/11/2019 19/12/2019 19/12/2019 20/11/2019 **ISAQ** 0/1 20/11/2019 SALP 0/1 20/11/2019 20/11/2019 19/12/2019 VHSP 0/1 20/11/2019 20/11/2019 19/12/2019 **GPAT** 2/5 13/12/2019 13/12/2019 19/12/2019 19/12/2019 CGDH 2/5 13/12/2019 13/12/2019 13/12/2019 13/12/2019 LPAT 1/5 19/12/2019 19/12/2019 SKIN 2/5 13/12/2019 13/12/2019 **CMPS** 5/5 13/12/2019 13/12/2019 19/12/2019 **PMCH** 1/5 13/12/2019 13/12/2019 19/12/2019 **EPIT** 1/5 13/12/2019 13/12/2019 19/12/2019 19/12/2019 ADHE 1/5 13/12/2019 13/12/2019 13/12/2019 **VSPE** 5/5 13/12/2019 19/12/2019 19/12/2019 **VVIS** 1/5 13/12/2019 13/12/2019 NSIG 1/5 19/12/2019 13/12/2019 13/12/2019 **PMCV** 1/1 13/12/2019 13/12/2019 19/12/2019 **VSPE** 1/5 19/12/2019 13/12/2019 13/12/2019 Report Summary 2<sup>nd</sup> Insp Case Type Date Insp REP, DIA 17/12/2019



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







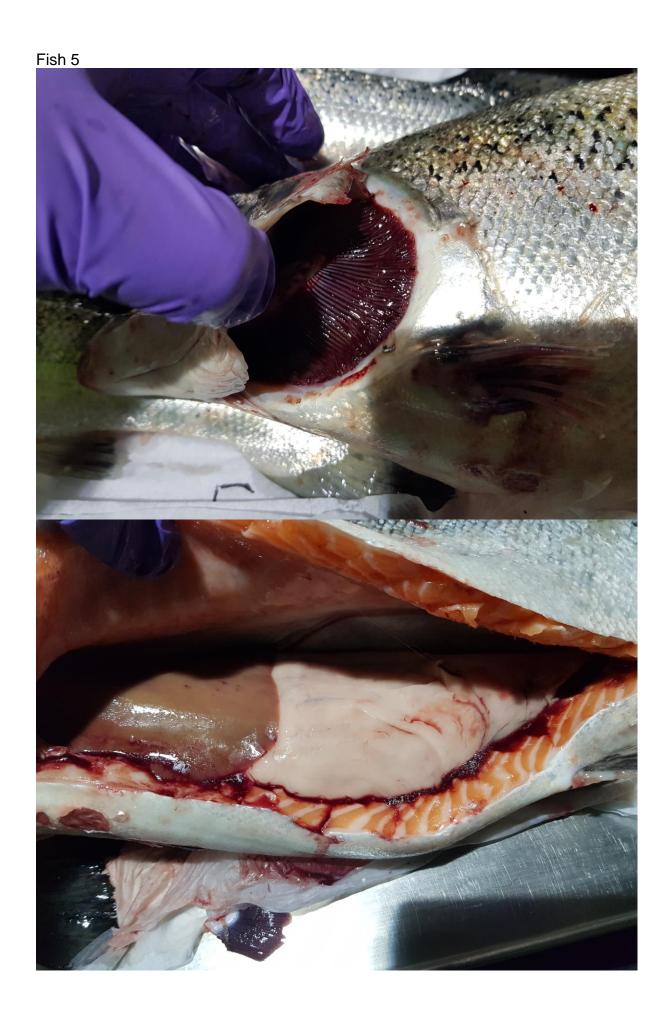


















Mowi Scotland Ltd Stob Ban House Glen Nevis Business Park Fort William PH33 6RX

# FISH HEALTH INSPECTORATE VISIT REPORT

### SUMMARY FOR INFORMATION OF SITE OPERATOR

Business NoFB0119Date of Visit12/11/2019Site NoFS1297Site NameTabhaighInspectorDavid BradleyCase No20190559

# **Section 1: Summary**

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

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

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

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

# **Section 2: Case Detail**

## **Observations**

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

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

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

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

### <u>Samples</u>

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

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

### Results

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

The following bacteria were isolated:

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

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

Moritella viscosa – F2 gill.

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

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

Piscine myocarditis virus (PMCV)

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

Salmon gillpox virus (SGVP)

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

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

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

Neoparamoeba perurans (AGD)

Fish Number	Endogenous control Cp value		Cp Values		Reported Result (PCR)
F1	18.45	32.88	33.75	33.44	POSITIVE
F2	18.56	34.62	35.78	35.02	POSITIVE
F3	18.40	32.96	33.00	32.72	POSITIVE
F4	18.71	33.72	33.05	32.70	POSITIVE
F5	18.19	33.99	33.51	33.52	POSITIVE

Paranucleospora theridion

Fish Number	Endogenous control Cp value		Reported Result (PCR)		
F1	18.45	23.39	23.40	23.57	POSITIVE
F2	18.56	28.26	28.37	28.29	POSITIVE
F3	18.40	28.76	28.81	28.87	POSITIVE
F4	18.71	24.13	24.08	24.24	POSITIVE
F5	18.19	29.38	29.42	29.43	POSITIVE

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

Histopathological examination revealed the following:

<u>Gill</u>: Few scattered lamellae displaying aggregates of rod-shape Gram-negative bacteria (F1). Mild multifocal interlamellar hyperplasia and lamellar fusion (F3) and few single lamellae with epithelial thickness (F3). Occasional basophilic epithelial inclusions (likely epitheliocystis) (F1). Scattered aneurysmal dilation/telangiectasia and lamellar thrombosis. Free blood among gill filament (likely associated with percussive stunning). Generalized epithelial lifting likely associated with post-mortem artefact.

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

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

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

Pancreas: Within normal range.

Liver: Mild diffuse hepatic necrosis (F2).

Kidney: Within normal range.

<u>Spleen</u>: Mild focal splenic necrosis and depletion of white pulp (F2).

Signed:

Fish Health Inspector

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Marine Scotland website at <a href="https://www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter">www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter</a>

Date: 17/12/2019





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 FS1297
INSPECTOR

DATE OF VISIT 12/11/2019
SITE NAME Tabhaigh
CASE NO 20190559

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

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

### Records

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

Aquaculture animal and aquaculture animal product movement records were inspected and found to be inadequately maintained

Mortality records were inspected and found to be adequately maintained.

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

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

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

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



Fish Health Inspector

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Marine Scotland website at <a href="https://www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter">www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter</a>

Date: 18/12/2019

FHI 059, Version 12		Issued by: FHI		Date of is	ssue: 08/10/2018
Case No: 2019-0561				Date of visit: 1	3/11/2019
Time spent on site:	hours		Main Inspector	: =	
Site No: FS1291 Business No: FB0119	Site Name: Business Name:	Caolas A Deas Mowi Scotland L	td		
Case Types: 1 REP	2 DIA 3	4	5	6	
Water Temp (°C): 11.3	Thermometer No:	T275	_	FHI 045 complet	ed
Observations:	Region: WI	Water type:	S	CoGP MA	W-5
Dead/weak/abnormally behaving	fish present?			nation/clinical sco	
Clinical signs of disease observe	d?			nation/clinical sco	
Gross pathology observed? Diagnostic samples taken?		Y If yes, see a	idditional inform	nation/clinical sco	re sneet.
Diagnostio samples taken.					
UNI/REG only - if unable to carry	out intended visit deta	ail reason below:			

#### **Additional Case Information:**

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

Vet report from 23rd of October -

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

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

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

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

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

FHI 059, Version 12			Iss	sued by: FHI			Date of issu	ie: 08/10/2018
Case No:	2019-0561	]	Site No:	FS129	91			
Date of Visit:		13/11/20	19		Inspector(s	):		]
Registration/Authornal Business/site det 2. Changes made to	ails summary		y site represen	tative?			Y N	- }
Site Details								
Total No facilities		20	Facilities st	tocked	20	No facilities	sinspected	20
Species	SAL	LUM	WRA					
Age group	2018 q4	MIX	MIX					
No Fish	929,258	65,970	12,692					
Mean Fish Wt	2.56 Kg	MIX	MIX					
Next Fallow Date (S	site)	June 2020		Next Input I	Date (Site)	December	2020	
Recent (last 4 wks)	disease prob	olems?			Y Any escape	es (since last v	visit)?	N
If yes, detail:	Anaemia, C				7 my cocape	o (onico idot i		
Movement Record	s							
1. Movement record	ls available fo	or inspection	n?					Y
2. Date of last inspe		or mopositor					07/11/2017	
3. Are records comp		rectly entere	ed?					Y
4. Are movement re		-		?				Y
5. Are records comp								Y
6. Are health certific		•		ilable?				N/A
Transport Records		`	,					
1. Are any moveme		ut by (or on	behalf) of the b	ousiness (not u	ising a STB)?			
If yes, is there a sys			•	•	_			
Mortality Records								
Mortality records	available for	inspection?						Y
2. How are mortalities		•			Ensiled - or	site		
If other detail:								
3. Mortality records	complete and	d correctly e						Y
4. Recent mortality	(last 4 wks)·		14/10 - 618 43,499 (4.4	35 (0.59%) 21/ 15%)	10 - 9993 (0.9	7%) 28/10 57,	,089 (5.5%) (	04/11 -
5. Evidence of recei		atypical mo		70)				Y
If yes, facility nos/no		• •		tv/reason·				
Post treatment loss		•	•	•				
6. Any other peaks i	,							N
If yes, detail:								
7. Have increased (	unexplained)	mortalities	been reported	to vet or FHI?				N/A
If yes, detail action:								
8 Have 'mortality ev	ents' heen r	enorted to F	HI2 If no add	MRT case and	enter on mor	tality events s	heet	Y

FHI 059, Version 12	Issued by: FHI	Date of issue: 08/10/2018
Recent treatments (last 4 wks)?		Y
	2, T.M.S.	
If other, detail:		
2. Medicines records available for inspe		Y
3. Are records complete and correctly e	ntered?	Y
4. Are fish in a withdrawal period?		Y
5. If yes, what treatment(s)?	T.M.S.	
If other, detail:		
6. Are medicines stored appropriately?		Y
Biosecurity Records		
Biosecurity records available for inspersion.	ection?	
•	ortality removal, recording and safe disposal be	en considered?
	the APB will notify Scottish Ministers or vetering	
increased (unexplained) mortality at the	•	any processional or any
<b>,</b>		
4. Has the action that will be taken in the	e event that the presence or suspicion of the pr	resence of a listed disease
	when that will be notified to Scottish Ministers'	
5. Has the health status of aquaculture	animals being stocked on the farm site been co	overed (equal or higher
health status, certification if required)?		
<ol><li>Have the husbandry and biosecurity in</li></ol>	measures implemented between each epidemi	ological unit to minimise

**Results of Surveillance** 

If no, detail:

aquaculture animals held on site?

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

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

transmission of disease been covered (movement of staff, visitors, equipment, live or dead fish etc.)?

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

- 2. If yes, are results available for inspection?
- 3. Any significant results?

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

See additional comments

Records checked between:

07/11/2017 - 13/11/2019

	Case no:	2019-	0561		Site No	): 	FS1	291			Date of Samplir		13/	11/2019	14/
	Priority samples:	\	/1		BA		3	РА		MG		Н		1	
	Time sampling starts/ends:	16	:30:00		18:0	00:00	]		Inspecto	or:			VMD N	0.	0
	Environmental conditions:		1 Indo	ors	2		3	3		4		5	5	1	
	Summary samples	HIST	Υ		ВА	Υ	MG		Υ	VI	Y	PA		Total Sa	amples
Λ	dd Fish/Pools - click														
A															
	Pool/Fish No	F1	F2		F3	F4	F5		P1						
	Fish nos	1	2		3	4	5		1-5						
	Pool Group	P1	P1		P1	P1	P1								
	Species	SAL	SAL		SAL	SAL	SAL		SAL						
	Average weight								2.56 Kg						
	Sex	N/A	N/A		N/A	N/A	N/A		N/A						
	Water Type	SW	SW		SW	SW	SW		SW						
S		1	5	ort	Ailort	į	5	ort	ort						
Details			₹	Α̈́	Ξ	l id		Aii	Αij						
Õ		† de	5	Loch Ailort	och	A doc	5	Loch Ailort	Loch Ailort						
S	otook ong	_				_		L <sub>0</sub>	2						
St	Facility No	14	14		14	17	17								

11/2019	Addition	nal Sam	ple Infor	mation:							
6	1	Total To	ests ass	ianed	3	1					
				J							

FHI 059, Version 12 Issued by: FHI Date of issue: 08/10/2018 Method of killing: Percussive Case no: FS1291 2019-0561 Site No: Inspector(s): Sheet Relevant: Y Date of visit: 13/11/2019 S for strong presence: M for medium presence: W for weak presence F3 F4 Fish Number Time sampled after death (if > 45 minutes) External Signs Behaviour Moribund Lethargic S S Hanging vertical Spiralling Flashing Loss of equilibrium Body Dark Distended abdomen Anorexic Scale Oedema Opercula Shortened Flared M Haemorrhaging Throat Ventrum M Base of fins Elsewhere Eyes Exophthalmic Enophthalmic (sunken) Cataract Haemorrhagic Gills Pale W M M M Zoned Necrotic Lesions Flank Elsewhere Vent Inflamed Trailing faeces Lice Load Estimate numbers Internal Signs Clear Ascites W Bloody Oedema In tissues M М М M Heart Pale/anaemic Granulomas Deformed Liver Petechial haem Gross haem Tissue breakdown Enlarged Colour number(s) Granulomas Lesions Pyloric caeca Petechial haem S 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 Parasites present

Anaemia

General

Case no: 2019-0561

Date of visit: 13/11/2019

Stortstong presence: M for weld   Stortstong   Stortstong presence: M for weld   Stortstong	Date of visit.	13/11/20	10					
Time sampled after death (if > 45 minutes) Ekternal Signs Ekhaviour Lethargic Hanging vertical Spiralling Flashing Loss of equilibrium Body Dark Ancresic Ancresic Ancresic Flared Flashing Flashing Flashing Loss of equilibrium Body Distended abdomen Ancresic Ancresic Ancresic Flared	S for strong preser	nce: M for medium presence: W fo	DF W					
External Signs Behaviour Lethargic Hanging vertical Spiralling Flashing Loss of equilibrium Body Dark Olstended abdomen Anorexic Scale Oederna Opercula Shortened Flared Haemorrhaging Base of fins Elsewhere Estophishamic (sunken) Cataract Haemorrhagic Gills Flared Haemorrhagic Flared Haemorrhagic Gills Flared Haemorrhagic Granulomas Gills	Fish Number							
Behaviour   Moribund	Time sampled aft	er death (if > 45 minutes)						
Lethargic	External Signs							
Hanging vertical	Behaviour							
Spiralling								
Flashing								
Loss of equilibrium								
Dark								
Distended abdomen		Loss of equilibrium						
Anorexic   Scale Dedema   Scale De	Body							
Scale Cedema								
Sportened								
Flared								
Haemorrhaging   Throat	Opercula							
Nentrum					_			
Base of fins	Haemorrhaging							
Elsewhere								
Export   E								
Enophthalmic (sunken)								
Cataract	Lyes							
Haemorrhagic								
Gills								
Zoned	Cilla							
Necrotic	Gills							
Lesions					_			
Elsewhere	Lesiene							
Vent	Lesions							
Trailing faeces	Vent							
Lice Load	vent							
Internal Signs	Lies Load				_			
Ascites   Clear	LICE LOAG	Estimate numbers						
Ascites   Clear	Internal Signs							
Bloody		Clear						
Oedema         In tissues           Heart         Pale/anaemic           Granulomas         Image: Company of the part o	Ascites				_			
Heart	Oedema	-						
Granulomas					_			
Deformed	Tourt							
Liver				_	_			
Gross haem	Liver							
Tissue breakdown   Enlarged   Colour number(s)								
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 Granular Liquefied General Parasites present								
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 Kidney Granular Liquefied General Fluid filled General	Pyloric caeca							
Lack of fat								
Spleen         Enlarged								
Granulomas	Spleen							
Gut         No food present								
Yellow pseudo-faeces	Gut	No food present						
External haem		Yellow pseudo-faeces						
Body wall         Haemorrhaging         Image: Company of the company								
Swim bladder         Haemorrhaging         Image: Control of the contr		Internal haem						
Swim bladder         Haemorrhaging         Image: Control of the contr								
Kidney         Swollen	Swim bladder							
Grey								
Granular	Kidney							
Liquefied								
General Parasites present								
Angemia	General							
IAIIaEIIIIa		Anaemia						

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

Site No: FS1291

Case No: 2019-0561

Nature of non-compliance:
Action taken (FHI):
Non-compliance relevant to (delete): VirologyMolGen/Bacteriology/Histology/Parasitology

Case No: 2019-0561 Date of visit: 13/11/2019 Site No: FS1291 Inspector: Results Summary Freq. Date of Notification Database Phone Insp Writing Insp Insp 2<sup>nd</sup> Insp 24/12/2019 **VSPE** 1/5 28/11/2019 28/11/2019 AGDQ 5/5 28/11/2019 28/11/2019 24/12/2019 **PNST** 5/5 28/11/2019 28/11/2019 24/12/2019 5/5 SPVP 28/11/2019 28/11/2019 24/12/2019 **IHNP** 24/12/2019 0/1 28/11/2019 28/11/2019 **IPNM** 0/1 28/11/2019 28/11/2019 24/12/2019 24/12/2019 **ISAQ** 0/1 28/11/2019 28/11/2019 SALP 0/1 28/11/2019 28/11/2019 24/12/2019 **AMGD** 4/5 13/12/2019 13/12/2019 24/12/2019 5/5 CGDH 13/12/2019 13/12/2019 24/12/2019 **EPIT** 3/5 24/12/2019 13/12/2019 13/12/2019 **GPAT** 5/5 13/12/2019 13/12/2019 24/12/2019 Report Summary 2<sup>nd</sup> Insp Case Type Date Insp DIAG, REP 24/12/2019



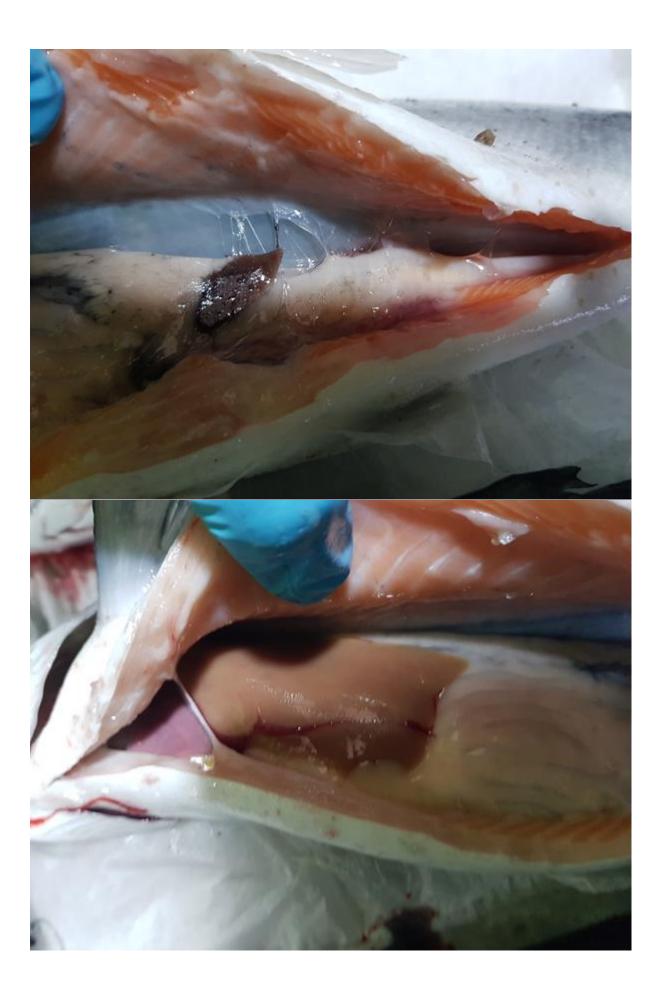
Note - attachments file must be saved to ARC folder as PDF with correct name format e.g. 2012-0123-attach or 2012-0123-attach2 etc.



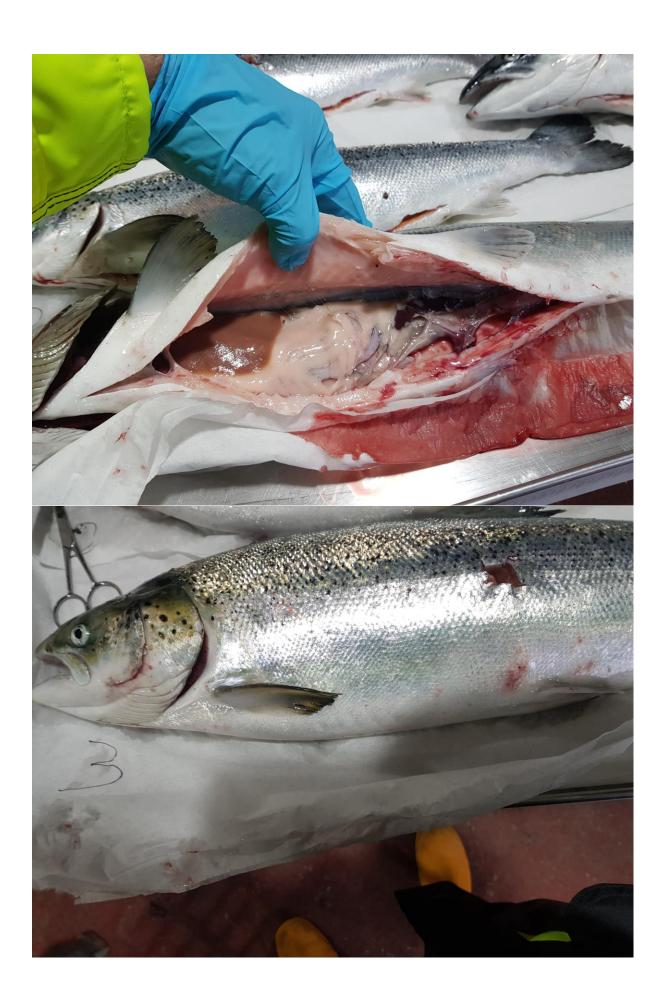


























Mowi Scotland Ltd Stob Ban House Glen Nevis Business Park Fort William PH33 6RX

# FISH HEALTH INSPECTORATE VISIT REPORT

## SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NO FB0119
SITE NO FS1291
INSPECTOR

DATE OF VISIT SITE NAME CASE NO

13/11/2019 Caolas A Deas 20190561

# **Section 1: Summary**

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

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

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

*Vibrio* sp was identified from gill material taken from one fish. The level and purity of which would suggest it may be implicated in morbidity.

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

## **Section 2: Case Detail**

## **Observations**

The site was inspected following a report of increased mortality by the business. Records on site showed that mortality for the 4 weeks before the inspection was 0.59% (6185 fish), 0.97% (9993 fish), 5.5% (57,089 fish), and 4.45% (43,499 fish) respectively. The company attributed increased mortality to treatment complications arising from gill issues which were being experienced on site, as well as anaemia.

R09

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

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

#### <u>Samples</u>

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

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

#### Results

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

The following bacteria were isolated from F3:

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

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

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

Salmon gill poxvirus (SGVP)

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

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

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

Neoparamoeba perurans (AGD)

Fish Number	Endogenous control Cp value		Reported Result (PCR)		
F1	21.62	33.10	33.27	33.29	POSITIVE
F2	21.71	30.25	30.33	30.30	POSITIVE
F3	21.37	29.33	29.48	29.38	POSITIVE
F4	21.60	29.53	29.66	29.65	POSITIVE
F5	21.33	30.06	30.21	30.09	POSITIVE

Paranucleospora theridion

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

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

Histopathological examination revealed the following:

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

Skin & Muscle: Within normal range.

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

Gut and pyloric caeca: Within normal range.

Pancreas: Within normal range.

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

Kidney: Within normal range.

R09

# Spleen: Within normal range.



Fish Health Inspector

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Marine Scotland website at <a href="https://www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter">www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter</a>

FHI 059, Version 12		Issued by: FHI	Date of issue: 08/10/2018
Case No: 2019-0596			Date of visit: 05/11/2019
Time spent on site:	hrs	Main Inspecto	r:
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 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:	

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

FHI 059, Version 12			Issu	ed by: FHI			Date of issu	e: 08/10/2018
Case No:	2019-0596		Site No:	SS0759				
Date of Visit:		05/11/2019	]		Inspector(s):			]
Registration/Authornal 1. Business/site deta 2. Changes made to	ails summary		ite representa	ative?			Y N	}
Site Details								
Total No facilities Species	MED	10 long lines	Facilities sto	cked	8 long line	No facilitie	s inspected	0 lines
Age group No Fish	2018 100 tonnes							
Mean Fish Wt Next Fallow Date (S	35mm ite)	December 2	019	Next Input Da	ate (Site)	wild spat		
Recent (last 4 wks) If yes, detail:					Any escapes		visit)?	N/A
Movement Record	s							
Movement record     Date of last inspect.	ction:						31/10/2019	Y
<ul><li>3. Are records comp</li><li>4. Are movement re</li><li>5. Are records comp</li><li>6. Are health certific</li></ul>	cords available elete and corre	le for dead fis ectly entered?	h and waste?					N/A N/A N/A
Transport Records  1. Are any movement of the second secon	nts carried out		•	•	_			
Mortality Records  1. Mortality records	available for in	nspection?						Y
2. How are mortalities of their detail:		•			Other (detail)	)		
Mortality records     Recent mortality (	•	correctly ente		es observed, er	npty shells fal	to the seal	oed.	N/A
5. Evidence of recer If yes, facility nos/no		• •		/reason:				N/A
6. Any other peaks i	n mortality du	ring period ch	necked?					N/A
If yes, detail: 7. Have increased (				vet or FHI?				N/A
If yes, detail action:  8. Have 'mortality ev					enter on morta	lity events s	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:			
· · · · · · · · · · · · · · · · · · ·	available for inspection?		
	ete and correctly entered?		
4. Are fish in a withdr	•		
5. If yes, what treatm	•		
If other, detail:			
6. Are medicines stor	red appropriately?		
Biosecurity Record	•		
_	s available for inspection?		
•	•	moval, recording and safe disposal be	een considered?
3. Has the manner ar	nd period in which the APB	will notify Scottish Ministers or vetering	nary professional of any
increased (unexplain	ned) mortality at the site bee	n included?	
		hat the presence or suspicion of the p	
		at will be notified to Scottish Minister	
health status, certification	•	peing stocked on the farm site been of	covered (equal or nigner
meanin status, certino	auon ii required):		
6. Have the husband	ry and biosecurity measures	s implemented between each epidem	niological unit to minimise
transmission of disea	ise been covered (movemen	nt of staff, visitors, equipment, live or	dead fish etc.)?
	•	sures in place to maintain the physic	al containment of
aquaculture animals			
If no, detail:	ity procedures been adequa	tely implemented on site?	
ii iio, uctali.			
<b>Results of Surveilla</b>	nce		

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?

31/11/19 -5/11/19

Case No:	2019-0596			Date of visit:	05/11/2019			
Site No:	SS0759	l		Inspector:		l		
Results Summary	Freq.			Dat	te of Notificat	tion		
		Database	Insp	Phone	Insp	Writing	Insp	2 <sup>nd</sup> Insp
	-							
Report Summary	1							
Report Summary Case Type	Date	Insp	2 <sup>nd</sup> Insp					
MOV	14/11/2019		Z IIISP					
mo v	1-1/11/2010							
	1							





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

# FISH HEALTH INSPECTORATE VISIT REPORT

#### SUMMARY FOR INFORMATION OF SITE OPERATOR

 Business No
 SB0530
 Date of Visit
 05/11/2019

 Site No
 SS0759
 Site Name
 Fearna

 Inspector
 Case No
 20190596

# Inspection for placing on the market in the EU

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

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

Signed: Date: 14/11/2019
Fish Health Inspector

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Marine Scotland website at <a href="https://www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter">www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter</a>

FHI 059, Version 12		Issued by: FHI	Date of issue: 08/10/2018
Case No: 2019-0626			Date of visit: 11/11/2019
Time spent on site:	nr	Main Ir	nspector:
Site No: SS0918 Business No: SB0406	Site Name: Business Name:	Sron na Saobhaidh Fass Fern Mussels	
Case Types: 1 ECI 2	2 3	4 5	6
Water Temp (°C): N/A	Thermometer No:		FHI 045 completed N/A
Observations:	Region: HI	Water type: S	CoGP MA
Dead/weak/abnormally behaving Clinical signs of disease observed Gross pathology observed? Diagnostic samples taken?	•	N If yes, see addition	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	il reason below:	

Site is stocked with natural spat and also seed that was received from Garvan SS0801 for ongrowing.

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

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

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

Inspection and paperwork completed by under supervision.

FHI 059, Version 12 Issued by: FHI Date of is	ssue: 08/10/2018
Case No: 2019-0626 Site No: SS0918	
Date of Visit: 11/11/2019 Inspector(s):	
Registration/Authorisation Details  1. Business/site details summary checked by site representative?  2. Changes made to details?	_ ∃
Site Details	
Total No facilities   7 longlines Facilities stocked   7 No facilities inspecte	d /
Species MED MED	
Age group 2018 2019	
No Fish 3/7 lines 4/7 lines	
Mean Fish Wt 105 tonnes 5-10 tonnes	
Next Fallow Date (Site) No plan. Next Input Date (Site) Natural settlement.	
Recent (last 4 wks) disease problems?  N Any escapes (since last visit)?  If yes, detail:	N/A
Movement Records	
Movement records available for inspection?	V
2. Date of last inspection: 09/10/20	18
3. Are records complete and correctly entered?	Y
4. Are movement records available for dead fish and waste?	N/A
5. Are records complete and correctly entered?	N/A
6. Are health certificates for introductions (outwith GB) available?	N/A
Transport Records	
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	
Mortality records available for inspection?	N/A
2. How are mortalities disposed of?  Other (detail)	
If other detail: Empty shells drop to the seabed.	
Mortality records complete and correctly entered?	N/A
4. Recent mortality (last 4 wks): No unexplained mortality observed on site since site was first s	stocked.
5. Evidence of recent increased/atypical mortalities?	N/A
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:	N/A
7. Have increased (unexplained) mortalities been reported to vet or FHI?	N/A
If yes, detail action:	14/74
8. Have 'mortality events' been reported to FHI? If no, add MRT case and enter on mortality events sheet.	N/A

If no. detail:

- 1. Has any animal health surveillance been carried out by, or on behalf of, the business?
- 2. If yes, are results available for inspection?
- 3. Any significant results?

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

Records checked between:

12/06/2018 - 11/11/19

Total Risk

LOW

Case No:	2019-0626			Date of visit:	11/11/2019			
Site No:	SS0918	l	Inspector:					
Results Summary	Freq.			Dat	te of Notificat	tion		
		Database	Insp		Insp	Writing	Insp	2 <sup>nd</sup> Insp
Report Summary				1				
Case Type	Date	Insp	2 <sup>nd</sup> Insp					
ECI	18/11/2019		2 11150					
	1							





Fass Fern Mussels Garvan Glen Garvan Fort William PH33 7AW

# FISH HEALTH INSPECTORATE VISIT REPORT

#### SUMMARY FOR INFORMATION OF SITE OPERATOR

Business NoSB0406Date of Visit11/11/2019Site NoSS0918Site NameSron na SaobhaidhInspectorCase No20190626

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

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

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

#### Records

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

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

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

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

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

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

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

Signed:

Fish Health Inspector

Date: 18/11/2019

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Marine Scotland website at <a href="https://www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter">www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter</a>

FHI 059, Version 12		Issued by: FHI	Date of issue: 08/10/2018		
Case No: 2019-0648			Date of visit: 12/11/2019		
Time spent on site: 4.	5hrs	Main Ins	pector:		
Site No: FS0964 Business No: FB0125	Site Name: Business Name:	Bloody Bay Scottish Sea Farms Ltd			
Case Types: 1 ECI 2	2 CNI 3 SLI	4 VMD 5	6		
Water Temp (°C): 12	Thermometer No:	T152	FHI 045 completed N		
Observations:	Region: ST	Water type: S	CoGP MA M-34		
Dead/weak/abnormally behaving fish present?  Clinical signs of disease observed?  Gross pathology observed?  Diagnostic samples taken?  Y  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 deta	il reason below:			

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

Salmon came onto site in November 2018 fro and and

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

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

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

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

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

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

Fish sampled for VMD appeared healthy.

Inspection, sampling and paperwork completed by under supervision.

FHI 059, Version 12			Issu	ued by: FHI			Date of issu	e: 08/10/2018
Case No:	2019-0648		Site No:	FS0964				
Date of Visit:		12/11/2019	3		Inspector(s)	:		]
Registration/Authornal 1. Business/site detail 2. Changes made to	ails summary		ite representa	ative?			Y N	]
Site Details								
Total No facilities		9	Facilities sto	ocked	9	No facilitie	s inspected	9
Species	SAL	WRA	LUM					
Age group	2018 Q4	Wildcaught	2019					
No Fish	255,000	~12,750	~ 25,000					
Mean Fish Wt	3kgs	Mixed	70g					
Next Fallow Date (S	ite)	March 2020		Next Input Da	ate (Site)	November	2020	
Pagent (last 4 vdrs)	diaaaaa nrah	lama?			<b>1</b>	- (since lest)	vicit\2	N
Recent (last 4 wks)  If yes, detail:	Complex gil			<u>'</u>	Any escapes	s (since last	visit) :	N
• /								
Movement Record								
1. Movement record		or inspection?					40/04/2047	Y
2. Date of last inspe		roothy optorod?	,				10/04/2017	
<ol> <li>Are records comp</li> <li>Are movement re</li> </ol>		•		,				1
				<b>f</b>				1
<ol><li>Are records comp</li><li>Are health certific</li></ol>		-		able?				N/A
Transport Records		ductions (out	vitii GD) avail	abie:				TW/A
Transport Necorus								
1. Are any movemen		• `	•	•	•			N
If yes, is there a sys	tem in place	for maintenan	ce of transpo	rtation records	?			
Mortality Records								
1. Mortality records	available for i	inspection?						Y
2. How are mortalitie	es disposed o	of?			Incinerated -	on site		
If other detail:								
3. Mortality records	complete and	d correctly ente	ered?					Y
4. Recent mortality (	(last 4 wks):		1,407 morta	lities in the last	t 4 weeks (0.4	11%) across	site.	
5. Evidence of recer	nt increased/a	atypical mortal	lities?					N
If yes, facility nos/no	mortality pe	r facility/no sto	ck per facility	//reason:				
6. Any other peaks i								Y
16		•	*	/b 07/10/2019 -	51430 (6.499	%). Mortality	attributed to	post-
If yes, detail:		sses (hydroge						
7. Have increased (	unexplained)				artality:			Y
If yes, detail action: 8. Have 'mortality ev	ents' heen re			ade aware of m		ality events s	heet	l N
J. Flato Inortanty Ct	C. NO DOCK IC		, add iv	oase and .		L 0 701113 3		

FHI 059, Version 12	Issued by: FHI	Date of issue: 08/10/2018
Treatments and Medicines Records		
1. Recent treatments (last 4 wks)?		Y
If yes, detail: T.M.S.		
If other, detail:		
2. Medicines records available for inspection	on?	Y
3. Are records complete and correctly enter	ered?	Y
4. Are fish in a withdrawal period?		Y
5. If yes, what treatment(s)?	T.M.S.	
If other, detail:		
6. Are medicines stored appropriately?		Y
Biosecurity Records		
Biosecurity records available for inspect	tion?	Y
2. Has the manner and frequency of morta	ality removal, recording and safe disposal b	een considered?
3. Has the manner and period in which the increased (unexplained) mortality at the s	e APB will notify Scottish Ministers or veterionite been included?	nary professional of any
4. Has the action that will be taken in the e	event that the presence or suspicion of the	presence of a listed disease Y

7. Is documentation available regarding the measures in place to maintain the physical containment of	Y
aquaculture animals held on site?	
8. Have the biosecurity procedures been adequately implemented on site?	Y
If no, detail:	

## Results of Surveillance

health status, certification if required)?

1. Has any animal health surveillance been carried out by, or on behalf of, the business?	
2. If yes, are results available for inspection?	

2. If yes, are results available for inspection:	
3. Any significant results?	
	AGD diagnosed in August 2019. Morta
	attributed to gill issues has reduced si
	1 1 1 0 1 1 0010

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

6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minimise

transmission of disease been covered (movement of staff, visitors, equipment, live or dead fish etc.)?

is detected been included and how and when that will be notified to Scottish Ministers?

alities nce. PCR conducted in October 2019 came back positive for PRV, however their have been no clinical signs of the disease.

Health report date: 14/10/19

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

Records checked between:

10/04/17 - 12/11/19

Г	ni 059, version 12							155	ueu by.				
	Case no:	2019-0	648	Site No		FS0964			Date of Samplin		12/	11/2019	12/
	Priority samples:	VI		ВА		PA		MG		g. HI		1	
	Time sampling starts/ends:	12:3	80:00	13:0	00:00	]	Inspecto	or:			VMD No	o.	26
	Environmental conditions:	1	Indoors	2		3		4		5			
	Summary samples	HIST		ВА		MG		VI		PA		Total Sa	amples
A	dd Fish/Pools - click												
Н	Fish nos	1	2	2	4								
L		1	2	3	4								
Н	Pool Group	CAL	CAL	CAL	CAL								
	Species	SAL	SAL	SAL	SAL								
	Average weight	3kgs	3kgs	3kgs	3kgs								
	Sex Water Time	N/A SW	N/A SW	N/A SW	N/A SW								
	Water Type	SVV	SVV	SVV	5W								
			_	_	I ■								
v.													
Details													
9	3												
, X	Stock Origin												
to	Facility No	2	4	6	8								
U.	,	_	•	Ü	•								

11/2019 Additional Sample Information:  Percussive blow.											
Percussive blow.											
0 Total Tests assigned 0											

FHI 059, Version 12		Issued by: FH	II			Date o	of issue	: 08/10/2018
Case Number:	2019-0648			Site No:	FS0964		Insp:	
Date of Visit	12/11/2019			No of mo	ovements/s	upp./dest.		Score
Live fish movements				0	1-5	6-10	>10	
Movements on (from out	Frequency of m	novements on from equivalent M	S	0	5	10	14	0
with GB) of susceptible species		novements on from equivalent zo	ne or	0	9	18	26	П
·	compartment including third country  Number of suppliers			0	5	10	14	0
Movements off	Frequency of m	novements off		0	3	6	10	10
Movements on	Number of des			0	3	6	10	3
Exposure via water		Site co	ntacts	0	1-5	6-10		
Water contacts with other farms (holding species	disinfection or l	,	0					
susceptible to same diseases)	farms upstream	or in a coastal zone with catego n or within 1 tidal excursion		1	2	4		2
	farms upstream	or in a coastal zone with catego n or within 1 tidal excursion		1	3	6		ш
		or in a coastal zone with catego n or within 1 tidal excursion	ry V	1	4	8		
Management practices				None	Secure	Unsecure		
Water contacts with processors	Any processing	plant discharging into adjacent	waters	0	1	2		1
On farm processing within the rules of the directive	No on farm pro			0				0
	Processing own	n fish (re-cycling risk)		1				
	Processing fish	from MS of equivalent status		2				
	equivalent statu			4				
		from Category III farm		8				
	Processing fish	from Category ∀ farm		10				$\Box$
Disposal of fish and fish by-	Site's own was	te only processed.		0				0
products	Common proce	esses with other farms		3				ш
	Collection poin	t for waste from other farms		5				
Use of unpasteurised feeds	No feeding of u	inpasteurised feed		0				0
	Feeding unpas	teurised feed		5				-
Biosecurity		Number o	f 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		0
Disinfection of equipment	Yes			0				0
between sites, use of footbaths etc	No			1				ш
CoGP/Regulator								
Practices in accordance	Yes			0				0
with regulator or industry code of practice	No			3				
Platform access to cages	Yes			0				0
	No			2				
						Total Rank		17 MEDIUM

						_	
Case No:	2019-0648		\$	Site No:	FS0964	]	
	Seawater Sites Only)	s in the previous 4 years	e2			,	N
•	•	equivalent) fallowed syn		a single ve	par class hasis?		V
		enced in-feed and bath					1 V
azamethiphos and em can these be deployed 4. Is there a signed do	amectin benzoate) as I in a reasonable perioc cumented farm manag	well as access to suitab	ble biological a	nd/or mech	nanical control meas		Y
Management Area (or	• •						
		pection? (Legal SSI, Co					Υ
6. Do records adequat	ely reflect the required	standard specified in th	he SSI and the	CoGP? (Le	egal SSI, CoGP Ann	ex 6)	Υ
7. Are sea lice ( <i>L. saln</i> records are inspected?		low the suggested crite	ria for treatmer	nt in the Co	GP during the perio	d that	N
2 or above (from w/b 1	0/6/19) during the peri	<i>monis</i> ) numbers per fis od that records are insp	pected?		above (prior to w/b 10		N
•	•	Health Inspectorate? If r					N/A
9. Is <i>C. elongatus</i> infe	station at a level which	is considered to cause	significant wel	fare proble	ems? (CoGP 4.3.81,	5.3.50)	N
		istered or other actions elongatus is considered					Υ
11. Has any other action	on been taken (where a	applicable)?				ļ	N/A
•	•	ns taken had a significar	nt impact upon	the lice lev	vels recorded?		Υ
		out in cooperation between					Υ
		where fewer population		_		ent for	Y
	cific written lice manage scalation of a sea lice	ement procedure with winfestation?	/aypoints descr	ibing set a	ctions to deal with re	cognised	Υ
16. Do the sea lice lev	els observed on stocks	s reflect sea lice count d	data? If no plea	se detail re	easons.		Υ
Containment Inspect	ion						
1. Has the site experie	nced equipment dama	ge due to predators in t	the current or p	revious pro	oduction cycles?		N
2. Are measures in pla	ce to mitigate against	the predation experienc	ced on site? (De	etail below)	)		Υ
Tension nets, top ne	ts, MML						
If other, detail below							
2 Hayo oscano incido	ents or ovents been ev	perienced on or in the vi	vicinity of the cit	o since the	last EUI inspection	2	N
·			icinity of the sit	e since the	e last i i il ilispection	·	
	estions 4 – 9. If No ski	•					
4. Have these been re	ported to Scottish Mini	sters?					
5. Have these been re	ported to local DSFB fo	orthwith (where they exi	ist)? (CoGP – 4	4.4.37, 5.4.	.17)		
6. Have these been re	ported to the SSPO an	d local fisheries trusts for	forthwith (where	they exist	t)? (CoGP – 4.4.37,	5.4.17)	
7. Were methods (if ar	ny) used to recover esc	capees? If yes give deta	ail				
8. If gill nets were depl Ministers? (Legal, Co		greed with local wild fish	h interests and	was permi	ission given by Scot	lish	
9. What action was tak	en to prevent and min	imise the risk of further	escapes? (Not	covered in	n code but could		
be considered unde	r satisfactory measu	res of the Act)					
10. Is the site inspecte	d as satisfactory with r	egards to containment?	? If no, please of	letail reasc	on(s)		Υ

Issued by: FHI

Date of issue: 08/10/2018

FHI 059, Version 12

FHI 059, Version 12	Issued by: FHI	Date of issue: 08/10/2018
Case No: 2019-0648	Site No: FS0964	
Date of Visit: 12/11/2019	Inspector:	
Point of Compliance		
1. Is the farm under inspection located	within a farm management area?	Υ
If N, no further questions require comp	letion.	
Points of Compliance for Both Farm	Management Agreements and Statements	
<ul> <li>3. Is the current FMAg/S available for in</li> <li>4. Does the FMAg/S identify the relevan</li> <li>5. Does the FMAg/S identify the fish fain</li> <li>6. Does the FMAg/S identify the date of</li> <li>7. Does the FMAg/S identify the date of</li> </ul>	nt farm management area? rm site(s) to which it applies? f commencement of the agreement or stateme f review?	Y Y Y
Arrangements for Fish Health Manag	gement	
8. Does the FMAg/S identify the minimularm?	um health standards for the stocks to be introd	uced to the area or
<ol> <li>Does the FMAg/S identify the vaccin</li> <li>Does the FMAg/S identify the speci</li> </ol>	ation requirements for stocks held in the area of ies of fish which may be stocked into the area of mum stocking density of any pen on any farm in	or farm?
12. Does the FMAg/S identify the arran fish farm in the area or the individual fa	ngements for the storage and disposal of any de arm?	ead fish from any
Arrangements for The Management	of Sea Lice	
13. Does the FMAg/S identify arrangen	nents for the sharing of data on sea lice numbe	ers and treatments?
14. Does the FMAg/S identify the available of statement?	ability and the use of medicines on farms cover	
15. Does the FMAg/S identify any requilice on farms in the area or individual fa	irements for the sensitivity testing of available tarms?	reatments for sea
	mstances under which biological controls and o	
	ngements for synchronous treatments on farms	within the area?
Live Fish Movements		
area or farm?	mstances when live fish may be introduced or r	

FHI 059, Version 12	Issued by: FHI	Date of issue: 08/10/2018
Harvesting		
20. Does the FMAg/S identify acceptable	harvest practices on farms in the area or indivi	idual farms?
Fallowing		
21. Does the FMAg/S identify the dates by date when a farm or area may be restock	y which the area or individual farm will be fallowed?	w and the earliest Y
22. Does the FMAg/S identify whether one agreement or statement?	e or more year classes may be stocked onto si	ites covered by the
-	oodstock or potential broodstock are to be kept	t on any site
Point of Compliance for Farm Manager	ment Agreements Only	
24. Does the farm management agreeme parties to the agreement?	ent include arrangements for persons to becom	e, or cease to be,
Management and operation		
25. Is the fish farm being managed and op	perated in accordance with the agreement or s	statement?
26. What is the version no/date of issue o	of the FMAg/S? 15/11/2018	

Case No: 2019-0648 Site No: FS0964 Date of visit: 12/11/2019

Start date:	End date: (if applicable)	Size of fish:	Average weight of affected population:	Species:	Yearclass:	Timescale	Mortality rate recorded(%):	Explained/ unexplained:	If explained, select reason(s):
30/09/19	06/10/2019	≥750g	2.2kgs	SAL	2018 Q4	Weekly	2.86	Explained	Treatment
07/10/19	13/10/2019	≥750g	2.2kgs	SAL	2018 Q4	Weekly	6.49	Explained	Treatment
									_
							+		

If unexplained, select observations:	Total mortality during event (if available):	Additional information (e.g. action taken by company):	Action taken by FHI (include case no where applicable):
	8,035	Post treatment - hydrogen peroxide for gills.	Picked up during inspection. No clinical signs of disease observed during inspection of site. Recent mortality has been 0.41% over the past 4 weeks Mortalities reported by company on 14/11/19.
	51,430	Post treatment - hydrogen peroxide for gills.	Picked up during inspection. No clinical signs of disease observed during inspection of site. Recent mortality has been 0.41% over the past 4 weeks Mortalities reported by company on 14/11/19.

Case No:	2019-0648			Date of visit:	12/11/2019					
Site No:	FS0964			Inspector:						
Results Summary	Freq.			Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2 <sup>nd</sup> Insp		
	1									
Report Summary										
Case Type	Date	Insp	2 <sup>nd</sup> Insp							
ECI, CNI, SLI, VMD	18/11/2019									
	1									





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

# FISH HEALTH INSPECTORATE VISIT REPORT

## SUMMARY FOR INFORMATION OF SITE OPERATOR

Business NoFB0125Date of Visit12/11/2019Site NoFS0964Site NameBloody BayInspectorCase No20190648

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

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

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

## Records

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

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

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

Mortality records were inspected and found to be adequately maintained.

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

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

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

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

Medicine records were inspected and found to be adequately maintained.

Samples were taken to be analysed for veterinary residues.

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

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

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

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

Signed:

Fish Health Inspector

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Marine Scotland website at <a href="https://www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter">www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter</a>

Date: 18/11/2019

FHI 059, Version 12		Issued by: FHI		Date of is	ssue: 08/10/2018				
Case No: 2019-0649				Date of visit:	13/11/2019				
Time spent on site:	hrs	N	/lain Inspector	: 🔚					
Site No: FS0593 Business No: FB0169	Site Name: Business Name:	Inch Kenneth The Scottish Salm	non Company						
Case Types: 1 ECI	2 CNI 3 SLI	4	5	6					
Water Temp (°C): 11.8	Thermometer No:	T152	]	FHI 045 complet	ted N				
Observations:	Region: ST	Water type:	s	CoGP MA	M-37				
Dead/weak/abnormally behaving				nation/clinical sco					
Clinical signs of disease observe	d?			nation/clinical sco					
Gross pathology observed? Diagnostic samples taken?		N If yes, see ad	iditional inform	nation/clinical sco	ore sneet.				
UNI/REG only - if unable to carry out intended visit detail reason below:									

Lumpfish came on from Otter Ferry FS0843.

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

No movements onto or off of site since last inspection.

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

Inspection and paperwork completed by under supervision.

FHI 059, Version 12			Issu	ued by: FHI		Date of issue	e: 08/10/2018		
Case No:	2019-0649		Site No:	FS059	3				
Date of Visit:		13/11/20	19		Inspector(s)				
Registration/Authornal 1. Business/site det 2. Changes made to	ails summar		y site represent	ative?		7	/ N		
Site Details			<b></b>			<b>T</b> NI- 6198		О	
Total No facilities Species	CAL	8	Facilities sto	оскеа	4	No facilities	inspected	8	
Age group	SAL 2018 S0	LUM 2019	+	-	+	+ +			
No Fish	209,037	4,898	_	_		+			
Mean Fish Wt	2.7kgs	60g							
Next Fallow Date (S	Site)	May 2020		Next Input D	ate (Site)	Site to be ma	ade inactive	e after cycle.	
Recent (last 4 wks) If yes, detail:	disease prol	blems?		1	N Any escapes	s (since last vis	sit)?	N	
Movement Records  1. Movement records available for inspection?  2. Date of last inspection:  3. Are records complete and correctly entered?  4. Are movement records available for dead fish and waste?  5. Are records complete and correctly entered?  6. Are health certificates for introductions (outwith GB) available?									
Transport Records  1. Are any moveme If yes, is there a sys	nts carried o	• •	•	•	•			N	
Mortality Records									
Mortality records		•						Y	
<ol><li>How are mortalities</li><li>If other detail:</li></ol>						Dundas Chem	nicals		
3. Mortality records			llected by Billy	Bowle and tak	en to Dundas.			Y	
Recent mortality		id correctly e	Wk40: 497	* * * * * * * * * * * * * * * * * * * *	1: 390 (0.51%) last inspection	, Wk42: 327 (0	0.43%), Wk	43: 388	
5. Evidence of recei	•	/atypical mor		033 Site Siriee	last inspection			N	
If yes, facility nos/no				y/reason:					
6. Any other peaks if yes, detail:	in mortality d	luring period	checked?					N/A	
7. Have increased (	unexplained	) mortalities	been reported t	to vet or FHI?				N/A	
If yes, detail action:	, , , , , , , , , , , , , , , , , , ,								
8. Have 'mortality events' been reported to FHI? 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)?		
If yes, detail:	c	
If other, detail:	<u>o.</u>	
Medicines records available for insper	ection?	Y
Are records complete and correctly expressions and correctly expressions.		Y
4. Are fish in a withdrawal period?		Y
5. If yes, what treatment(s)?	T.M.S.	
If other, detail:		
6. Are medicines stored appropriately?		Y
Biosecurity Records		
1. Biosecurity records available for insp	pection?	Y
2. Has the manner and frequency of m	ortality removal, recording and safe disposal bee	en 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	ne site been included?	Y
	ne event that the presence or suspicion of the pr	
	d when that will be notified to Scottish Ministers	
health status, certification if required)?	animals being stocked on the farm site been co	vered (equal or nigher
•	measures implemented between each epidemic	
transmission of disease been covered	(movement of staff, visitors, equipment, live or d	lead fish etc.)?
7. Is documentation available regarding	g the measures in place to maintain the physical	containment of Y

Records checked between:

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

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

aquaculture animals held on site?

2. If yes, are results available for inspection?

**Results of Surveillance** 

If no, detail:

03/10/19 - 13/11/19

FHI 059, Version 12		Issued by: FHI			Date o	of issue	: 08/10/2018
Case Number:	2019-0649		Site No:	FS0593		Insp:	
Date of Visit	13/11/2019		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	
·	Number of sup	ncluding third country pliers	0		10	14	0
Movements off	Frequency of n	•	1 0	3	6	10	10
Wovernerits on	Number of des		0		6	10	3
Exposure via water		Site contacts	s 0	1-5	6-10		
Water contacts with other farms (holding species	disinfection or l	,	0				
susceptible to same diseases)	farms upstrean	or in a coastal zone with category I n or within 1 tidal excursion	1	2	4		2
	farms upstrean	or in a coastal zone with category III n or within 1 tidal excursion	1	3	6		ш
		or in a coastal zone with category V n or within 1 tidal excursion	1	4	8		ш
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		0				0
	Processing ow	n fish (re-cycling risk)	1				
	Processing fish	n from MS of equivalent status	2				
	equivalent stat		4				
		n from Category III farm	8				
	Processing fish	n from Category ∨ farm	10				$\Box$
Disposal of fish and fish by-	Site's own was	te only processed.	0	]			
products	Common proce	esses with other farms	3	1			3
	Collection poin	t for waste from other farms	5				
Use of unpasteurised feeds	No feeding of u	unpasteurised feed	0	i i			0
	Feeding unpas	teurised feed	5				
Biosecurity		Number of sites	s 1	2 or 3	≥ 4		
Contacts with other sites	Sites operating	from single shorebase	0	1	2		2
	Sites sharing s	taff and equipment	0	1	2		2
Disinfection of equipment	Yes		0	1			0
between sites, use of footbaths etc	No		1	1			ш
CoGP/Regulator			_	J			
Practices in accordance	Yes		0	]			0
with regulator or industry code of practice	No		3				
Platform access to cages	Yes		0	1			0
	No		2				ш
					Total Rank		22 MEDIUM

Case No:	2019-0649		S	ite No:	FS0593		
Sea Lice Inspection (		s in the previous 4 years	s?				N
•	•	equivalent) fallowed syn		a single y	ear class basis?		Υ
3. Does the site have a	access to a range of lic amectin benzoate) as	enced in-feed and bath well as access to suitab	sea lice medica	ations (inc	cluding deltamethrin,	ıres, and	Y
• •	cumented farm manag	ement agreement or sta	atement relevan	nt to the si	ite and CoGP Farm		Υ
5. Are sea lice count re	ecords available for ins	spection? (Legal SSI, Co	GP Annex 6)				Υ
6. Do records adequate	ely reflect the required	standard specified in th	e SSI and the 0	CoGP? (L	egal SSI, CoGP Anne	ex 6)	Υ
7. Are sea lice ( <i>L. salm</i> records are inspected?		low the suggested criter	ria for treatment	t in the Co	oGP during the period	l that	N
_	•	<i>monis</i> ) numbers per fish od that records are insp		el of 3 or a	above (prior to w/b 10	/6/19) or	N
If yes, have these beer	reported to the Fish I	Health Inspectorate? If n	o, FHI see com	nment.			N/A
9. Is C. elongatus infe	station at a level which	is considered to cause	significant welf	are proble	ems? (CoGP 4.3.81, 5	5.3.50)	N
		istered or other actions belongatus is considered					Υ
11. Has any other action	on been taken (where	applicable)?					Υ
12. Have therapeutic tr	eatments or the action	ns taken had a significar	nt impact upon t	the lice le	vels recorded?		Υ
•		d out in cooperation betw					Υ
		where fewer population		_		nt for	Y
15. Is there a site spec scenarios during the es		ement procedure with wiinfestation?	aypoints descri	bing set a	ections to deal with red	cognised	Y
16. Do the sea lice leve	els observed on stocks	s reflect sea lice count d	ata? If no pleas	se detail re	easons.		Υ
Containment Inspecti	ion						
1. Has the site experien	nced equipment dama	ge due to predators in the	he current or pr	evious pro	oduction cycles?		N
2. Are measures in pla	ce to mitigate against	the predation experience	ed on site? (De	tail below	·)		Υ
Tension nets, ADD, t	top nets, MML						
If other, detail below:							
3 Hayo oscano incido	inte or avante boon av	perienced on or in the vi	cinity of the cite	since the	o last EUI inspection?		N
If Yes proceed with que			cirilly of the site	s Since un	e last FHI IIIspection?		
4. Have these been rep		•				1	
5. Have these been rep	ported to local DSFB fo	orthwith (where they exis	st)? (CoGP – 4	.4.37, 5.4	.17)		
6. Have these been rep	ported to the SSPO an	d local fisheries trusts fo	orthwith (where	they exist	t)? (CoGP – 4.4.37, 5	.4.17)	
7. Were methods (if an	y) used to recover esc	capees? If yes give deta	il				
8. If aill nets were denle	oved was this action a	greed with local wild fish	interests and	was nerm	ission given by Scotti	sh	
Ministers? (Legal, CoG		g. Journal Hotel Wild Hal	c.coto ana v	ao penin			
9. What action was tak	en to prevent and min	imise the risk of further	escapes? (Not	covered in	n code but could		
be considered under	r satisfactory measu	res of the Act)					
10. Is the site inspecte	d as satisfactory with r	regards to containment?	If no, please de	etail reaso	on(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: 2019-0649	Site No: FS0593	
Date of Visit: 13/11/2019	Inspector:	
Point of Compliance		
1. Is the farm under inspection located	within a farm management area?	Υ
If N, no further questions require comp	letion.	
Points of Compliance for Both Farm	Management Agreements and Statements	
<ol> <li>Is the current FMAg/S available for in</li> <li>Does the FMAg/S identify the relevant</li> <li>Does the FMAg/S identify the fish fait</li> <li>Does the FMAg/S identify the date of</li> <li>Does the FMAg/S identify the date of</li> </ol>	nt farm management area? rm site(s) to which it applies? f commencement of the agreement or stateme f review?	Y Y Y
Arrangements for Fish Health Manag	gement	
8. Does the FMAg/S identify the minimularm?	um health standards for the stocks to be introd	uced to the area or
10. Does the FMAg/S identify the speci	ation requirements for stocks held in the area of ies of fish which may be stocked into the area of mum stocking density of any pen on any farm i	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 dearm?	ead fish from any
Arrangements for The Management	of Sea Lice	
13. Does the FMAg/S identify arrangen	nents for the sharing of data on sea lice numbe	ers and treatments?
14. Does the FMAg/S identify the available of statement?	ability and the use of medicines on farms cover	red 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 tarms?	treatments for sea
	mstances under which biological controls and o	
	gements for synchronous treatments on farms	s within the area?
Live Fish Movements		
area or farm?	mstances when live fish may be introduced or ingements for the movement of live fish on and o	

FHI 059, Version 12	issued by: FHI	Date of Issue: 08/10/20
Harvesting		
20. Does the FMAg/S identify acceptable	e harvest practices on farms in the area or indi	ividual farms?
Fallowing		
21. Does the FMAg/S identify the dates date when a farm or area may be restoo	by which the area or individual farm will be fallecked?	ow and the earliest Y
22. Does the FMAg/S identify whether o agreement or statement?	one or more year classes may be stocked onto	sites covered by the Y
23. Does the FMAg/S identify whether be covered by the agreement or statement.	proodstock or potential broodstock are to be ke ?	pt on any site
Point of Compliance for Farm Manage	ement Agreements Only	
24. Does the farm management agreem parties to the agreement?	nent include arrangements for persons to become	me, or cease to be, N/A
Management and operation		
25. Is the fish farm being managed and	operated in accordance with the agreement or	r statement?
26. What is the version no/date of issue	of the FMAg/S? Jul-18	

Case No:	2019-0649			Date of visit:	13/11/2019			
Site No:	FS0593			Inspector:				
Results Summary	Freq.			Da	te of Notificat	tion		
		Database	Insp	Phone	Insp	Writing	Insp	2 <sup>nd</sup> Insp
Report Summary				1				
Case Type	Date	Insp	2 <sup>nd</sup> Insp					
ECI, CNI, SLI	18/11/2019							





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

# FISH HEALTH INSPECTORATE VISIT REPORT

#### SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NO FB0169 DATE OF VISIT 13/11/2019
SITE NO FS0593 SITE NAME Inch Kenneth
INSPECTOR CASE NO 20190649

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

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

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

#### Records

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

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

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

Mortality records were inspected and found to be adequately maintained.

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

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

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

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

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

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

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

Signed:

Fish Health Inspector

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Marine Scotland website at <a href="https://www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter">www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter</a>

Date: 18/11/2019

FHI 059, Version 12		Issued by: FHI	Date of issue: 08/10/2018	
Case No: 2019-0650			Date of visit: 13/11/2019	
Time spent on site: 4	nrs	Main Inspe	ector:	
Site No: FS0839 Business No: FB0169	Site Name: Business Name:	Geasgill The Scottish Salmon Comp	any	
Case Types: 1 ECI 2	2 CNI 3 SLI	4 5	6	
Water Temp (°C): 11.8	Thermometer No:	T152	FHI 045 completed N	
Observations:	Region: ST	Water type: S	CoGP MA M-37	
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.  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:**

Lumpfish on from Otter Ferry FS0843.

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

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

Inspection and paperwork completed by under supervision.

FHI 059, Version 12			Issu	ed by: FHI			Date of issu	e: 08/10/2018
Case No:	2019-0650	]	Site No:	FS0839				
Date of Visit:		13/11/2019	]		Inspector(s):			]
Registration/Authornamental 1. Business/site deta 2. Changes made to	ails summary		ite representa	ative?			Y N	]
Site Details								
Total No facilities		12	Facilities sto	cked	12	No facilitie	s inspected	12
Species	SAL	LUM					i i	
Age group	2018 S0	2019						
No Fish	641,854	78,850						
Mean Fish Wt	2.7kgs	Mix						
Next Fallow Date (S	ite)	May 2020		Next Input Da	ite (Site)	Septembe	r 2020	
Recent (last 4 wks)	disease probl	ems?		N	Any escapes	(since last	visit)?	N
Movement Records	<u> </u>							
Movement record		r inspection?						Y
2. Date of last inspe		i inspection:					03/10/2019	
3. Are records comp		ectly entered?	,				00/10/2010	Y
4. Are movement re		•		•				Y
5. Are records comp								Y
6. Are health certific		•		able?				N/A
Transport Records	;							
1. Are any movemen	nts carried ou	t by (or on be	half) of the bu	isiness (not us	ing a STB)?			N
If yes, is there a sys			•	•	_			
Mortality Records								
1. Mortality records	available for i	nspection?						Y
2. How are mortalitie					Whole fish -	Dundas Che	emicals	
			cted by Billy E	Bowie and take				
3. Mortality records								Y
4. Recent mortality (	last 4 wks):			(0.24%), Wk4 %) across site s			3,566 (0.52%)	), Wk43:
• `	•	t miss! mortal		o) across site s	sirice last irispi	ection.		N
5. Evidence of recent increased/atypical mortalities?  If yes, facility nos/no mortality per facility/no stock per facility/reason:								
ir yes, racility nos/no	mortality per	Tacility/no sto	ck per racility.	reason.				
6. Any other peaks i	n mortality du	ring period ch	ecked?					N
If yes, detail:								
7. Have increased (unexplained) mortalities been reported to vet or FHI?								
If yes, detail action:								
8. Have 'mortality ev	ents' been re	ported to FHI	? If no, add M	IKI case and e	enter 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)?		Y
	, Salmosan	
If other, detail:		
2. Medicines records available for inspect		Y
3. Are records complete and correctly ent	ered?	Y
4. Are fish in a withdrawal period?	<u> </u>	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 inspec	tion?	Y
2. Has the manner and frequency of mort	ality removal, recording and safe disposal be	en considered?
3. Has the manner and period in which the	e APB will notify Scottish Ministers or vetering	ary professional of any
increased (unexplained) mortality at the s	site been included?	Y
4. Has the action that will be taken in the	event that the presence or suspicion of the presence of the presenc	resence of a listed disease Y
is detected been included and $how$ and $w$	when that will be notified to Scottish Ministers	?
5. Has the health status of aquaculture ar	nimals being stocked on the farm site been co	overed (equal or higher Y

#### **Results of Surveillance**

If no, detail:

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

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

6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minimise

transmission of disease been covered (movement of staff, visitors, equipment, live or dead fish etc.)?

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

2. If yes, are results available for inspection?

health status, certification if required)?

aquaculture animals held on site?

3. Any significant results?

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

AGD confirmed by PCR, although not causing significant mortalities.

Records checked between:

03/10/19 - 13/11/19

FHI 059, Version 12		Issued by: FHI			Date o	of issue	: 08/10/2018
Case Number:	2019-0650		Site No:	FS0839		Insp:	
Date of Visit	13/11/2019		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	$\overline{}$
	Number of sup	ncluding third country pliers	0		10	14	0
Movements off	Frequency of n	novements off	1 0	3	6	10	10
Movements on	Number of des		0		6	10	3
Exposure via water	<u> </u>	Site contact:	s 0	1-5	6-10		
Water contacts with other farms (holding species	disinfection or l	,	0				
susceptible to same diseases)	farms upstrean	or in a coastal zone with category I n or within 1 tidal excursion	1	2	4		2
	farms upstrean	or in a coastal zone with category III n or within 1 tidal excursion	1	3	6		ш
		or in a coastal zone with category V n or within 1 tidal excursion	1	4	8		ш
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		0				0
	Processing ow	n fish (re-cycling risk)	1				
	Processing fish	n from MS of equivalent status	2				
	equivalent stat		4				
		n from Category III farm	8				
	Processing fish	n from Category ∨ farm	10				$\Box$
Disposal of fish and fish by-	Site's own was	te only processed.	0	]			
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	unpasteurised feed	0	Ī			0
	Feeding unpas	teurised feed	5				
Biosecurity		Number of site	s 1	2 or 3	≥ 4		
Contacts with other sites	Sites operating	from single shorebase	0	1	2		2
	Sites sharing s	taff and equipment	0	1	2		2
Disinfection of equipment	Yes		0	1			0
between sites, use of footbaths etc	No		1	1			ш
CoGP/Regulator				J			
Practices in accordance	Yes		0	]			0
with regulator or industry code of practice	No		3				
Platform access to cages	Yes		0	1			0
	No		2	<u> </u>			ш
					Total Rank		22 MEDIUM

Case No:	2019-0650	Site No: FS0839				
Sea Lice Inspection (S	Seawater Sites Only)					
<ol> <li>Has the site experient</li> </ol>	iced sea lice problems	s in the previous 4 years?	N			
2. Is the CoGP Farm Ma	anagement Area (or e	quivalent) fallowed synchronously on a single year class basis?	Υ			
	mectin benzoate) as	enced in-feed and bath sea lice medications (including deltamethrin, well as access to suitable biological and/or mechanical control measures, and d of time?	Υ			
<ol> <li>Is there a signed doc Management Area (or e</li> </ol>		ement agreement or statement relevant to the site and CoGP Farm	Υ			
5. Are sea lice count re	cords available for ins	pection? (Legal SSI, CoGP Annex 6)	Υ			
6. Do records adequate	ly reflect the required	standard specified in the SSI and the CoGP? (Legal SSI, CoGP Annex 6)	Υ			
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?	N			
If yes, have these been	reported to the Fish H	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)	Υ			
11. Has any other action	n been taken (where a	applicable)?	Υ			
•	•	s taken had a significant impact upon the lice levels recorded?	Y			
		out in cooperation between participating farms?	Υ			
		where fewer populations or part populations are held without treatment for	Y			
15. Is there a site speci scenarios during the es		ement procedure with waypoints describing set actions to deal with recognised nfestation?	Υ			
16. Do the sea lice leve	ls observed on stocks	reflect sea lice count data? If no please detail reasons.	Υ			
Containment Inspection	on					
<ol> <li>Has the site experient</li> </ol>	iced equipment dama	ge due to predators in the current or previous production cycles?	N			
2. Are measures in plac	ce to mitigate against t	the predation experienced on site? (Detail below)	Υ			
Tension nets, top net	s, ADD, MML					
If other, detail below:						
<ol> <li>Have escape incider</li> </ol>	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 skip	o 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	6. Have these been reported to the SSPO and local fisheries trusts forthwith (where they exist)? (CoGP – 4.4.37, 5.4.17)					
7. Were methods (if any	y) used to recover esc	apees? If yes give detail				
8 If all note were deale	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)					
		mise 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: 2019-0650	Site No: FS0839	
Date of Visit: 13/	/11/2019 Inspector:	
Point of Compliance		
1. Is the farm under inspection	located within a farm management area?	Υ
If N, no further questions requir	e completion.	
Points of Compliance for Bot	th Farm Management Agreements and Statement	s
<ul><li>3. Is the current FMAg/S availal</li><li>4. Does the FMAg/S identify the</li><li>5. Does the FMAg/S identify the</li></ul>	e relevant farm management area? e fish farm site(s) to which it applies? e date of commencement of the agreement or staten	Y Y Y
Arrangements for Fish Health	n Management	
8. Does the FMAg/S identify the farm?	e minimum health standards for the stocks to be intro	oduced to the area or Y
10. Does the FMAg/S identify the	e vaccination requirements for stocks held in the area he species of fish which may be stocked into the area he maximum stocking density of any pen on any farm	a or farm?
12. Does the FMAg/S identify the fish farm in the area or the indi	he arrangements for the storage and disposal of any ividual farm?	dead fish from any
Arrangements for The Manag	gement of Sea Lice	
13. Does the FMAg/S identify a	arrangements for the sharing of data on sea lice number	bers and treatments?
14. Does the FMAg/S identify the of statement?	he availability and the use of medicines on farms cov	vered by the agreement Y
15. Does the FMAg/S identify a lice on farms in the area or indiv	ny requirements for the sensitivity testing of available	
	he circumstances under which biological controls and	d cleaner fish are to be
	he arrangements for synchronous treatments on farn	ns within the area?
Live Fish Movements		
area or farm?	he circumstances when live fish may be introduced on the arrangements for the movement of live fish on and	

FHI 059, Version 12	issued by: FHI	Date of Issue: 08/10/20
Harvesting		
20. Does the FMAg/S identify acceptable	e harvest practices on farms in the area or indi	ividual farms?
Fallowing		
21. Does the FMAg/S identify the dates date when a farm or area may be restoo	by which the area or individual farm will be fallecked?	ow and the earliest Y
22. Does the FMAg/S identify whether o agreement or statement?	one or more year classes may be stocked onto	sites covered by the Y
23. Does the FMAg/S identify whether be covered by the agreement or statement.	proodstock or potential broodstock are to be ke ?	pt on any site
Point of Compliance for Farm Manage	ement Agreements Only	
24. Does the farm management agreem parties to the agreement?	nent include arrangements for persons to become	me, or cease to be, N/A
Management and operation		
25. Is the fish farm being managed and	operated in accordance with the agreement or	r statement?
26. What is the version no/date of issue	of the FMAg/S? Jul-18	

Case No:	2019-0650	Date of visit: 13/11/2019						
Site No:	FS0839	Inspector:						
Results Summary	Freq.			Da	te of Notifica	tion		
		Database	Insp		Insp	Writing	Insp	2 <sup>nd</sup> Insp
			<u> </u>					
	1							
Report Summary				1				
Case Type	Date	Insp	2 <sup>nd</sup> Insp					
ECI, CNI, SLI	18/11/2019		z insp					
LOI, OIVI, OLI	10/11/2010							
	1							





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

# FISH HEALTH INSPECTORATE VISIT REPORT

#### SUMMARY FOR INFORMATION OF SITE OPERATOR

 Business No
 FB0169
 Date of Visit
 13/11/2019

 Site No
 FS0839
 Site Name
 Geasgill

 Inspector
 Case No
 20190650

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

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

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

#### Records

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

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

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

Mortality records were inspected and found to be adequately maintained.

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

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

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

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

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

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

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

Signed:

Fish Health Inspector

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Marine Scotland website at <a href="https://www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter">www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter</a>

Date: 18/11/2019

FHI 059, Version 12		Issued by: FHI	Date of issue: 08/10/2018				
Case No: 2019-0664			Date of visit: 07/11/2019				
Time spent on site:	hours	Mair	n Inspector:				
Site No: FS1296 Business No: FB0119	Site Name: Business Name:	Colonsay Mowi Scotland Ltd					
Case Types: 1 ECI	2 CNI 3 VMD	4 SLI 5 E	ESC 6				
Water Temp (°C): 11.9	Thermometer No:	Site	FHI 045 completed				
Observations:	Region: ST	Water type: S	CoGP MA None				
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.  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:**

Biomass currently 2500 - looking to increase to 3500

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

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

Sea temp above 14 until 9th October

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

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

limited weight on flight so site thermometer used.

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

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

SAV1 PD - on site

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

FHI 059, Version 12			Issu	ed by: FHI			Date of issu	e: 08/10/2018
Case No:	2019-0664		Site No:	FS1296				
Date of Visit:		07/11/2019	]		Inspector(s):			]
Registration/Autho	risation Deta	ils						
1. Business/site deta	ails summary	checked by s	ite representa	ative?			Υ	1
<ol><li>Changes made to</li></ol>	details?						N	
Site Details								
Total No facilities		12	Facilities sto	cked	8	No facilitie	s inspected	12
Species	Sal						T .	
Age group	2019 Q2							
No Fish	1,128,184							
Mean Fish Wt	1.29kg							
Next Fallow Date (S	ite)	Summer 202	20	Next Input Da	ite (Site)	2021 Q2		
					1.			
Recent (last 4 wks)				Y	Any escapes	(since last	visit)?	N
If yes, detail:	Morts due to	PD						
<b>Movement Records</b>	S							
1. Movement record	s available for	r inspection?						Y
2. Date of last inspe	ction:						20/10/2015	
3. Are records comp	lete and corre	ectly entered?	•					Y
4. Are movement re-								Y
<ol><li>Are records comp</li></ol>		•						Y
6. Are health certific	ates for introd	luctions (outw	ith GB) availa	able?				N/A
<b>Transport Records</b>								
1. Are any movemen	nts carried out	t by (or on bel	half) of the bu	isiness (not usi	ing a STB)?			N/A
If yes, is there a syst	tem in place f	or maintenan	ce of transpor	rtation records?	?			
Mortality Records								
1. Mortality records a	available for ir	nspection?						Y
2. How are mortalitie	es disposed of	f?			Ensiled - on :	site		
If other detail:								
3. Mortality records	complete and	correctly ente	ered?					Y
			Ranging from	n 200/day to 80	000/day (6/11/	/19) peaking	g at about 1.3	%/site/week
4. Recent mortality (	•							
5. Evidence of recer		• •						Y
If yes, facility nos/no					. 55			
Pen 12 139,192 fish				fish attributed	to PD			N
6. Any other peaks in If yes, detail:	n mortality du	ning period ch	ecked?					N
7. Have increased (	inevalained)	mortalities he	en reported to	vet or FHI2				I V
If yes, detail action:	inexplained) i	Reported to	•	VCCOLLII:				
•	ents' been re			IRT case and e	enter on morta	lity events	sheet.	Y
8. Have 'mortality events' been reported to FHI? 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:	2, T.M.S.	
If other, detail:		
2. Medicines records available for inspe	ection?	Y
3. Are records complete and correctly e	ntered?	Y
4. Are fish in a withdrawal period?		Y
5. If yes, what treatment(s)?	TMS	
If other, detail:		
6. Are medicines stored appropriately?		Y
Biosecurity Records		
1. Biosecurity records available for inspe	ection?	Y
	ortality removal, recording and safe disposal be	en considered?
	the APB will notify Scottish Ministers or vetering	
increased (unexplained) mortality at the	•	Y
4. Has the action that will be taken in the	e event that the presence or suspicion of the p	resence of a listed disease
	when that will be notified to Scottish Ministers	

-	11 059, Version 12							155	ueu by. F	ш			
	Case no:	2019-06	664	Site No:		FS1296			Date of vi		07/	11/2019	07/
	Priority samples:	VI		ВА		PA		MG		HI		1	
	Time sampling starts/ends:	12:3	0:00	13:4	5:00		Inspecto	or:			VMD No	o.	25
	Environmental conditions:	1	Indoors	2		3		4		5			
	Summary samples	HIST		ВА		MG		VI	F	PA		Total Sa	amples
A	dd Fish/Pools - click												
	Pool/Fish No												
	Fish nos	1-3	4-6										
	Pool Group												
	Species	SAL	SAL										
	Average weight	1.2000	1.2000										
	Sex												
	Water Type	SW	SW										
tock Defails		5 Loch Arkaig	<del>ه</del> Loch Arkaig										
S	I acility NO	12	4										

11/2019 Additional Sample Information:										
0 Total Tests assigned 0										
<del></del>										

FHI 059, Version 12	Issued by: FHI Date of issue:						
Case Number:	2019-0664		Site No:	FS1296		nsp:	
Date of Visit	07/11/2019		No of movements/supp./dest.				Score
Live fish movements			0	1-5	6-10	>10	
Movements on (from out	Frequency of m	novements on from equivalent MS	0	5	10	14	0
with GB) of susceptible species		novements on from equivalent zone or	_		40	00	-
species	compartment in Number of sup	ncluding third country	0		18 10	26 14	⊢
			U	5	10		$\blacksquare$
Movements off	Frequency of m		0		6	10	10
	Number of des		0		6	10	3
Exposure via water Water contacts with other	Earm is protect	Site contacts ed (secure water supply through	0	1-5	6-10		_
farms (holding species	disinfection or l	porehole)	0				ш
susceptible to same diseases)		or in a coastal zone with category I or within 1 tidal excursion	1	2	4		1
		or in a coastal zone with category III		_			-
	farms upstream	or within 1 tidal excursion	1	3	6		ш
		or in a coastal zone with category V n or within 1 tidal excursion	1	4	8		
	Tallino apolitorii.						
Management practices Water contacts with	Any processing	plant discharging into adjacent waters	None	Secure	Unsecure		
processors	Any processing	plant discharging into adjacent waters	0	1	2		0
On farm processing within	No on farm pro	cessing	0	1			0
the rules of the directive	Processing own	n fish (re-cycling risk)	1				-
	Processing fish	from MS of equivalent status	2				Н
		from zone or compartment of	,				ш
	equivalent state	ı from Category III farm	4				-
		from Category V farm	10				$\vdash$
			10				=
Disposal of fish and fish by- products		* *	0				0
,		esses with other farms	3				-
	Collection poin	t for waste from other farms	5				
Use of unpasteurised feeds	No feeding of u	npasteurised feed	0				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		
Disinfection of equipment	Yes		0	]			0
between sites, use of footbaths etc	No		1				
CoGP/Regulator				•			
Practices in accordance	Yes		0				0
with regulator or industry code of practice	No		3				
Platform access to cages	Yes			1			
	No		2				<u>_</u>
	1.10			J			
					Total		14
					Rank		LOW

Case No:	2019-0664	Site No: FS1296							
Sea Lice Inspection (S	Seawater Sites Only)								
<ol> <li>Has the site experient</li> </ol>	iced sea lice problems	s in the previous 4 years?	N						
2. Is the CoGP Farm Ma	anagement Area (or e	quivalent) fallowed synchronously on a single year class basis?	Υ						
	mectin benzoate) as	enced in-feed and bath sea lice medications (including deltamethrin, well as access to suitable biological and/or mechanical control measures, and d 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 re	cords available for ins	pection? (Legal SSI, CoGP Annex 6)	Υ						
6. Do records adequate	ly reflect the required	standard specified in the SSI and the CoGP? (Legal SSI, CoGP Annex 6)	Υ						
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?	N						
If yes, have these been	reported to the Fish H	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 action	n been taken (where a	applicable)?	N/A						
•	•	is taken had a significant impact upon the lice levels recorded?	Υ						
		out in cooperation between participating farms?	N/A						
		where fewer populations or part populations are held without treatment for	Y						
15. Is there a site speci- scenarios during the es		ement procedure with waypoints describing set actions to deal with recognised nfestation?	Y						
16. Do the sea lice leve	ls observed on stocks	reflect sea lice count data? If no please detail reasons.	Υ						
Containment Inspection	on								
1. Has the site experien	iced equipment dama	ge due to predators in the current or previous production cycles?	N						
2. Are measures in plac	ce to mitigate against t	the predation experienced on site? (Detail below)	Υ						
top nets, seal blinds,	looking to get ADD	on site.							
If other, detail below:									
<ol><li>Have escape incider</li></ol>	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		•							
4. Have these been rep	orted to Scottish Minis	sters?							
5. Have these been rep	orted to local DSFB fo	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							
<ol><li>If gill nets were deploy Ministers? (Legal, CoGI</li></ol>		greed with local wild fish interests and was permission given by Scottish							
9. What action was take	en to prevent and mini	imise the risk of further escapes? (Not covered in code but could							
be considered under	satisfactory measu	res of the Act)							
10. Is the site inspected	l as satisfactory with r	egards to containment? If no, please detail reason(s)	N						
Seal observed in one pe	en. Informed to compl	ete notification form and to arrange divers to inspect net.							

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: 2019-0664	Site No: FS1296	
Date of Visit: 07/11/2019	Inspector:	
Point of Compliance		
1. Is the farm under inspection located	within a farm management area?	N
If N, no further questions require compl	etion.	
Points of Compliance for Both Farm	Management Agreements and Statements	
Has a current farm management agr     Is the current FMAg/S available for in	eement or statement (FMAg/S) been prepared	1?
4. Does the FMAg/S identify the relevan	nt farm management area?	
5. Does the FMAg/S identify the fish far	m site(s) to which it applies? f commencement of the agreement or stateme	nt?
7. Does the FMAg/S identify the date of	-	ant.
Arrangements for Fish Health Manag	ement	
8. Does the FMAg/S identify the minimularm?	um health standards for the stocks to be introd	uced to the area or
10. Does the FMAg/S identify the specie	ation requirements for stocks held in the area of es of fish which may be stocked into the area of mum stocking density of any pen on any farm in	or farm?
12. Does the FMAg/S identify the arrangement fish farm in the area or the individual farm.	gements for the storage and disposal of any dearm?	ead fish from any
Arrangements for The Management of	of Sea Lice	
13. Does the FMAg/S identify arrangem	nents for the sharing of data on sea lice numbe	ers and treatments?
14. Does the FMAg/S identify the availa of statement?	ability and the use of medicines on farms cover	
15. Does the FMAg/S identify any requilice on farms in the area or individual fa	rements for the sensitivity testing of available t rms?	
16. Does the FMAg/S identify the circur used on farms in the area or individual t	nstances under which biological controls and c farms?	
17. Does the FMAg/S identify the arrange	gements for synchronous treatments on farms	within the area?
Live Fish Movements		
18. Does the FMAg/S identify the circur area or farm?	mstances when live fish may be introduced or r	removed from the
	gements for the movement of live fish on and o	off sites in the area

FHI 059, Version 12	Issued by: FHI	Date of issue: 08/10/2018
Harvesting		
20. Does the FMAg/S identify acceptable	e harvest practices on farms in the area or indivi	idual farms?
Fallowing		
21. Does the FMAg/S identify the dates to date when a farm or area may be restood	by which the area or individual farm will be fallow ked?	w and the earliest
22. Does the FMAg/S identify whether or agreement or statement?	ne or more year classes may be stocked onto si	ites covered by the
23. Does the FMAg/S identify whether browered by the agreement or statement?	roodstock or potential broodstock are to be kept ?	t on any site
Point of Compliance for Farm Manage	ement Agreements Only	
24. Does the farm management agreem parties to the agreement?	ent include arrangements for persons to becom	ee, or cease to be,
Management and operation		
25. Is the fish farm being managed and	operated in accordance with the agreement or s	statement?
26. What is the version no/date of issue	of the FMAg/S?	

Site No: FS1296

Case No: 2019-0664

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

Case No:	2019-0664			Date of visit:	07/11/2019			
Site No:	FS1296	Inspector:						
Results Summary	Freq.			Dat	te of Notificat	tion		
		Database	Insp			Writing	Insp	2 <sup>nd</sup> Insp
Report Summary								
Case Type	Date	Insp	2 <sup>nd</sup> Insp					
ECI, CNI, SLI, VMD, ES	29/11/2019							
	-							





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 NoFB0119Date of Visit07/11/2019Site NoFS1296Site NameColonsayInspectorCase No20190664

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

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

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

#### Records

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

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

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

Mortality records were inspected and found to be adequately maintained.

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

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

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

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

Medicine records were inspected and found to be adequately maintained.

Samples were taken to be analysed for veterinary residues.

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

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

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

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

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

Signed:

Fish Health Inspector

Date:29/11/2019

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Marine Scotland website at <a href="https://www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter">www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter</a>