

Case No: 2020-0354 Date of visit: 20/10/2020

Time spent on site: 4 Hours Main Inspector:

Site No: FS0851 Site Name: Ardgadden
Business No: FB0169 Business Name: The Scottish Salmon Company

Case Types: 1 ECI 2 CNI 3 SLI 4 VMD 5 DIA 6

Water Temp (°C): 11 Thermometer No: Site FHI 045 completed

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

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

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

Additional Case Information:

About 20,000 lumpfish have died since May input. 75,000 input now down to 55,000 all hatchery reared. Cause unknown but investigating with FVG. Samples have been taken.

Mort disposed of into a skip and Billy Bowie take them away for incineration at Dundas Chemicals
Hydrolicer used recently due to an increase in lice levels. 11/08/20 - 14/08/20 whole site treated. Successful treatment.
Increase in mortality noted due to higher water temperature (up to 17 degrees C) and plankton levels recently. Plankton samples taken and analysed by site staff everyday all year round. Hydrolicer used also on 20/07/20 - 23/07/20. Also successful. Mainly juvenile lice on site. Adult females well below threshold for notification.
Four SLICE treatment used on this cycle of fish 11/11/19 - 17/11/19 (prophylactic), 16/12/19 - 22/12/19, 02/03/20 - 08/03/20, 18/05/20 - 24/05/20. All treatments successful.

Bird nets, seal blinds, tensioned nets, OTAC ADD on site used as and when required, pest control contract on shore base.

Graded fish to be moved off over the weekend, final destination unknown at present.

Lice numbers did exceed criteria for treatment briefly, but not reportable levels.

Mortality event reported to FHI before inspection of site took place due to gill health, anaemia, and PD. While on site there were five moribund and lethargic fish taken for diagnostic sampling.

VMD fish appeared healthy when sampled.

Paper work completed by [REDACTED], site inspection carried out by [REDACTED]

Site thermometer used as case inspectors not working.

Mortality events on 5/10 and 12/10 reported to FHI.

A limited number of moribund fish were observed within the pens, due to mortality events reported preceeding the inspection, samples were taken for diagnostic purposes.

Case No: Site No:
 Date of Visit: Inspector(s):

Registration/Authorisation Details

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

Site Details

Total No facilities	<input type="text" value="14"/>	Facilities stocked	<input type="text" value="14"/>	No facilities inspected	<input type="text" value="14"/>
Species	<input type="text" value="SAL LUM"/>				
Age group	<input type="text" value="2019 S0"/>	<input type="text" value="May-20"/>			
No Fish	<input type="text" value="594,913"/>	<input type="text" value="54,817"/>			
Mean Fish Wt	<input type="text" value="3.6 Kg"/>	<input type="text" value="~25g"/>			
Next Fallow Date (Site)	<input type="text" value="June 2021 (approx.)"/>		Next Input Date (Site)	<input type="text" value="September 2021 (approx.)"/>	

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

Movement Records

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

Transport Records

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

Mortality Records

1. Mortality records available for inspection?
 2. How are mortalities disposed of?
 If other detail:
 3. Mortality records complete and correctly entered?
 4. Recent mortality (last 4 wks):
 5. Evidence of recent increased/atypical mortalities?
 If yes, facility nos/no mortality per facility/no stock per facility/reason:

Hydrolicer treatment (see additional comments). Suspected PD and gill health issues.
 6. Any other peaks in mortality during period checked?
 If yes, detail:
 7. Have increased (unexplained) mortalities been reported to vet or FHI?
 If yes, detail action:
 8. Have 'mortality events' been reported to FHI? If no, add MRT case and enter on mortality events sheet.

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

Biosecurity Records

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

Results of Surveillance

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

Records checked between: 12/09/2018 - 21/10/2020

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

Priority samples: VI BA PA MG HI

Time sampling starts/ends: Inspector: VMD No.

Environmental conditions: 1 2 3 4 5

Summary samples HIST BA MG VI PA Total Samples

Add Fish/Pools - click

Pool/Fish No	F1	F2	F3	F4	F5	P1							
Fish nos	1	2	3	4	5	1-5	6	7	8				
Pool Group	P1	P1	P1	P1	P1								
Species	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL				
Average weight	3.6Kg	3.6Kg	3.6Kg	3.6Kg	3.6Kg	3.6Kg	3.6Kg	3.6Kg	3.6Kg				
Sex	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
Water Type	SW	SW	SW	SW	SW	SW	SW	SW	SW				
Stock Details		Ormsary smolt unit	Ormsary smolt unit	Ormsary smolt unit	Ormsary smolt unit	Ormsary smolt unit	Ormsary smolt unit	Ormsary smolt unit	Ormsary smolt unit	Ormsary smolt unit			
	Stock Origin												
Facility No	2	2	5	5	5		1	4	5				

10/2020 Additional Sample Information:

Total Tests assigned

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Method of killing: Percussive

Date of visit: 20/10/2020

Inspector(s):

Sheet Relevant: Y

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

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

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Date of visit: 20/10/2020

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

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	External haem								
	Internal haem								
Body wall	Haemorrhaging								
Swim bladder	Haemorrhaging								
	Fluid filled								
Kidney	Swollen								
	Grey								
	Granular								
	Liquefied								
General	Parasites present								
	Anaemia								

Additional comments:

Case Number:	2020-0354	Site No:	FS0851	Insp:	
Date of Visit	20/10/2020	No of movements/supp./dest.			Score
Live fish movements		0	1-5	6-10	>10
Movements on (from out with GB) of susceptible species	Frequency of movements on from equivalent MS	0	5	10	14
	Frequency of movements on from equivalent zone or compartment including third country	0	9	18	26
	Number of suppliers	0	5	10	14
Movements off	Frequency of movements off	0	3	6	10
	Number of destinations	0	3	6	10
Exposure via water	Site contacts	0	1-5	6-10	
Water contacts with other farms (holding species susceptible to same diseases)	Farm is protected (secure water supply through disinfection or borehole)	0			
	Farm is on-line or in a coastal zone with category I farms upstream or within 1 tidal excursion	1	2	4	2
	Farm is on-line or in a coastal zone with category III farms upstream or within 1 tidal excursion	1	3	6	
	Farm is on-line or in a coastal zone with category V farms upstream or within 1 tidal excursion	1	4	8	
Management practices		None	Secure	Unsecure	
Water contacts with processors	Any processing plant discharging into adjacent waters	0	1	2	0
On farm processing within the rules of the directive	No on farm processing	0			0
	Processing own fish (re-cycling risk)	1			
	Processing fish from MS of equivalent status	2			
	Processing fish from zone or compartment of equivalent status	4			
	Processing fish from Category III farm	8			
	Processing fish from Category V farm	10			
Disposal of fish and fish by-products	Site's own waste only processed.	0			
	Common processes with other farms	3			3
	Collection point for waste from other farms	5			
Use of unpasteurised feeds	No feeding of unpasteurised feed	0			0
	Feeding unpasteurised feed	5			
Biosecurity	Number of sites	1	2 or 3	≥ 4	
Contacts with other sites	Sites operating from single shorebase	0	1	2	2
	Sites sharing staff and equipment	0	1	2	2
Disinfection of equipment between sites, use of footbaths etc	Yes	0			0
	No	1			
CoGP/Regulator					
Practices in accordance with regulator or industry code of practice	Yes	0			0
	No	3			
Platform access to cages	Yes	0			0
	No	2			
Total Rank					22 MEDIUM

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Sea Lice Inspection (Seawater Sites Only)

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

Containment Inspection

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

ADD MML Tensioned nets Seal blinds

If other, detail below:

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

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Site No: FS0851

Date of Visit: 20/10/2020

Inspector: **Point of Compliance**

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

If N, no further questions require completion.

Points of Compliance for Both Farm Management Agreements and Statements

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

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

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

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

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

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

Arrangements for Fish Health Management

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

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

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

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

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

Arrangements for The Management of Sea Lice

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

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

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

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

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

Live Fish Movements

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

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

Harvesting

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

Fallowing

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

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

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

Point of Compliance for Farm Management Agreements Only

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

Management and operation

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

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

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 Site No: **FS0851** Inspector: **[REDACTED]**

Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp
AGDQ	5/5	03/11/2020	[REDACTED]	29/10/2020	[REDACTED]	25/01/2024	[REDACTED]	[REDACTED]
PNST	5/5	03/11/2020	[REDACTED]	29/10/2020	[REDACTED]	26/01/2024	[REDACTED]	[REDACTED]
SPVP	5/5	03/11/2020	[REDACTED]	29/10/2020	[REDACTED]	27/01/2024	[REDACTED]	[REDACTED]
SALP	1/1	03/11/2020	[REDACTED]	29/10/2020	[REDACTED]	28/01/2024	[REDACTED]	[REDACTED]
AHNP	0/1	03/11/2020	[REDACTED]	29/10/2020	[REDACTED]	29/01/2024	[REDACTED]	[REDACTED]
IPNM	0/1	03/11/2020	[REDACTED]	29/10/2020	[REDACTED]	30/01/2024	[REDACTED]	[REDACTED]
ISAQ	0/1	03/11/2020	[REDACTED]	29/10/2020	[REDACTED]	31/01/2024	[REDACTED]	[REDACTED]
VHSP	0/1	03/11/2020	[REDACTED]	29/10/2020	[REDACTED]	01/02/2024	[REDACTED]	[REDACTED]
TENC	4/5	25/01/2024	[REDACTED]	25/01/2024	[REDACTED]	25/01/2024	[REDACTED]	[REDACTED]
VSPE	5/5	25/01/2024	[REDACTED]	25/01/2024	[REDACTED]	25/01/2024	[REDACTED]	[REDACTED]
CGDH	5/5	25/01/2024	[REDACTED]	25/01/2024	[REDACTED]	25/01/2024	[REDACTED]	[REDACTED]
EPIT	5/5	25/01/2024	[REDACTED]	25/01/2024	[REDACTED]	25/01/2024	[REDACTED]	[REDACTED]
PMCH	5/5	25/01/2024	[REDACTED]	25/01/2024	[REDACTED]	25/01/2024	[REDACTED]	[REDACTED]
SALH	1/5	25/01/2024	[REDACTED]	25/01/2024	[REDACTED]	25/01/2024	[REDACTED]	[REDACTED]
PMVP	0/1	25/01/2024	[REDACTED]	25/01/2024	[REDACTED]	25/01/2024	[REDACTED]	[REDACTED]

Report Summary			
Case Type	Date	Insp	2 nd Insp
ECI, CNI, SLI, VMD	03/11/2020	[REDACTED]	[REDACTED]
DIA	25/01/2024	[REDACTED]	[REDACTED]

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0169	DATE OF VISIT	20/10/2020
SITE No	FS0851	SITE NAME	Ardgaddan
CASE No	20200354	INSPECTOR	██████████

Section 1: Summary

During a routine inspection of the above site a number of moribund fish were observed. Increased mortality had been reported prior to the visit therefore five moribund fish were removed for diagnostic sampling.

Histopathological examination revealed mixed pathology. All fish showed evidence of complex gill issues with mild hyperplastic branchitis, presence of epitheliocystis and some vascular damage. *Neoparamoeba perurans*, *Paranucleospora theridion* and salmon gill poxvirus were detected by qPCR. One fish also displayed evidence of pancreas disease which was confirmed by qPCR.

Vibrio sp. and *Tenacibaculum* sp. were identified. Neither of these bacteria would be implicated as the primary source of morbidity and are likely to be of environmental origin.

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

During a routine site inspection a number of moribund salmon were observed in pens 2 and 5. The site had recently reported increased mortality to the Fish Health Inspectorate which was being attributed to gill health, anaemia and pancreas disease.

All five fish sampled were moribund and lethargic and F1 - F3 had pale gills.

Internally, F3 had clear ascites, and F4 bloody ascites. F1 had petechial haemorrhaging on the liver. F1-F3 and F5 all had enlarged spleens. F1 & 2 had no food present in the gut while F4 and F5 had yellow pseudo-faces.

Samples

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

Fish number	Pool number	Facility number	Species	Stage	Origin
F1 & F2	P1	2	Atlantic salmon	2019 S0, 3.6kg	Ormsary smolt unit
F3 - F5	P1	5	Atlantic salmon	2019 S0, 3.6kg	Ormsary smolt unit

Results

Bacteriology: Kidney and gill material from F1 - F5 were inoculated onto appropriate media for the isolation of bacteria.

The following bacteria were isolated:

- *Vibrio* sp. (Gill: F1-F5)
- *Tenacibaculum* sp. (Gill: F1-F4)

The *Tenacibaculum* sp. isolate was tested for segments of nucleic acid indicative of the presence of *Tenacibaculum maritimum*. The sample tested negative.

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

Salmonid alphavirus (SAV)

Pool Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
P1	17.73	35.21	35.53	34.93	POSITIVE

Salmon gill poxvirus (SGPV)

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
P1	21.69	35.21	36.30	35.61	POSITIVE
F2	21.94	30.36	30.41	30.53	POSITIVE
F3	21.54	32.78	32.61	32.60	POSITIVE
F4	21.29	29.97	29.93	29.99	POSITIVE
F5	21.33	35.92	35.74	36.00	POSITIVE

The samples tested negative for infectious haematopoietic necrosis virus (IHNV), infectious pancreatic necrosis virus (IPNV), infectious salmon anaemia virus (ISAV), piscine myocarditis virus (PMCV) 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	21.69	33.11	33.18	33.22	POSITIVE

F2	21.94	31.20	31.01	31.13	POSITIVE
F3	21.54	34.78	34.97	35.16	POSITIVE
F4	21.29	31.91	31.73	31.67	POSITIVE
F5	21.33	29.91	29.89	29.75	POSITIVE

Paranucleospora theridion

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	21.69	26.40	26.55	31.39	POSITIVE
F2	21.94	30.83	30.63	30.66	POSITIVE
F3	21.54	30.50	30.37	30.44	POSITIVE
F4	21.29	28.60	28.42	28.36	POSITIVE
F5	21.33	36.36	36.30	36.05	POSITIVE

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

Histopathological examination revealed the following:

Gill: Mild multifocal interlamellar hyperplasia with spaces (lacunae) occasionally filled with cell debris and lamellar fusion (F1-F5), mild lamellar thrombosis and lamellar necrosis (F1-F5), moderate displacement of chloride cells and hypertrophy (F1-F5), several basophilic epithelial inclusions (likely epitheliocystis) (F4), one gill filament displayed focal area of fibrosis (F2) and some mixed inflammatory infiltrate including mainly neutrophils associated with vessel destruction and, free blood among gill filament (F3). All gills displayed evidence of post-mortem artefact.

Skin & Muscle: Minimal inflammation of endomysium skeletal red muscle (F2).

Heart: Presence of few nests of basophilic nuclei, indicative of inflammation, mild cardiac myofibre degeneration, displaying some shrunken myofibre and some endocardial thickness (F1) at the spongy layer of ventricle.

Gut and pyloric caeca: Cell sloughing (likely associated with post-mortem artefact).

Pancreas: Some absence of pancreatic acinar cells (F1).

Liver: Mild to moderate multifocal hepatic necrosis (F1-F5) and mild diffuse hepatocyte vacuolation (F1-F5).

Kidney: Glomeruli slightly congested (F2).

Spleen: Within normal range.

Signed:



Date: 25/01/2024

Fish Health Inspector

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Marine Scotland website at <https://www.gov.scot/publications/fish-health-inspectorate-service-charter/>

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

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0169	DATE OF VISIT	20/10/2020
SITE No	FS0851	SITE NAME	Ardgadden
INSPECTOR	[REDACTED]	CASE No	20200354

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.

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

Records

The surveillance frequency category of the site was assessed as 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 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.

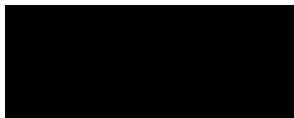
Inspection under the Aquaculture and Fisheries (Scotland) Act 2007

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, fish farm management agreements and statements and containment and escapes.

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

Signed:



Date: 03/11/2020

Fish Health Inspector

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Marine Scotland website at <https://www.gov.scot/publications/fish-health-inspectorate-service-charter/>