Case No: 2021-0356 Date of visit: 05/10/2021

Time spent on site: 6 hours 30 minutes Main Inspector: [redacted]

Site No: FS1305 Site Name: Westerbister
Business No: FB0125 Business Name: Scottish Sea Farms Ltd

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

Water Temp (°C): 12.9 Thermometer No: T155 FHI 045 completed

Observations: Region: OR Water type: S CoGP MA O-3

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:

Stock on site inputted in July 2020 from Barcaldine

Risk assessment in place to support the case of non-synchronous fallow of the area
Slice treatments in fish which went to Hunda for caligus and in summer for Leps
Average female leps - 1.39 week 37; 1.34 week 36; 1.80 week 35; 1.34 week 34
Site to stock wrasse (local wild caught from Orkney) to help combat rising sea lice levels. Stock due in 8 October 2021.
Reported loss of stock upon input - captured through supplier mortality records.

Paperwork inspection by virtual meeting - Thursday 30 September 2021 - [redacted] and [redacted]

Site inspection by [redacted] and [redacted]. Samples from fish 1, fish 2 and fish 3 - pools 1 and 2 taken by [redacted]. Samples from fish 4 and 5 - pool 3, and VMD samples from fish 6 and 7 taken by [redacted] under the supervision of [redacted]

Oxygen levels satisfactory on site and temperature beginning to drop. It is hoped that this will help to alleviate mortality issues.

Several moribund, lethargic and dead fish observed across the site.

Case No:	2021-0356	Site No:	FS1305
Date of Visit:	05/10/2021	Inspector(s):	[redacted]

Registration/Authorisation Details

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

Site Details (include cleaner fish for all sections)

Total No facilities	16	Facilities stocked	16	No facilities inspected	16		
Species	SAL						
Age group	2020 Q2						
No Fish	447,878						
Mean Fish Wt	3.362kg						
Next Fallow Date (Site)	March 2022	Next Input Date (Site)	? July 2022				
Recent (last 4 wks) disease problems?	Y	Any escapes (since last visit)?	N				
If yes, detail:	Complex gill disease						

Movement Records

1. Movement records available for inspection?	Y
2. Date of last inspection:	28/05/2019
3. Are records complete and correctly entered?	Y
4. Are movement records available for dead fish and waste?	Y
5. Are records complete and correctly entered?	Y
6. Are health certificates for introductions (outwith GB) available?	N/A

Transport Records

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

Mortality Records

1. Mortality records available for inspection?	Y
2. How are mortalities disposed of?	Other (detail)
If other detail:	Mortalities held in bins and ensiled on mainland - at Twatt
3. Mortality records complete and correctly entered?	Y
4. Recent mortality (last 4 wks):	58,577 - 11.35% mortality for the site for the past 4 weeks. Complex gill
5. Evidence of recent increased/atypical mortalities?	Y

If yes, facility nos/no mortality per facility/no stock per facility/reason:

Up to 6,500 to 7,000 per cage for past 4 weeks. Mortality highest in pens 1, 2 and 6. But has increased across all of the site. Estimated loss of some 18% since stocking.

6. Any other peaks in mortality during period checked?	Y
If yes, detail:	June / July increased mortality up to 700-1000 per week across site. Oxygen dropped and complex disease issues. Mortality in previous stock at 10.89% for cycle.
7. Have increased (unexplained) mortalities been reported to vet or FHI?	Y
If yes, detail action:	Reported increased mortalities to FHI and investigated by veterinary professionals.
8. Have 'mortality events' been reported to FHI? If no, enter details on mortality events sheet.	Y

Treatments and Medicines Records

1. Recent treatments (see comment)?	Y
If yes, detail:	Paramove Tricane cage 9
	10 September - pen 2 pen 1, 5 and 7 - 14 Septen Tricane - weekly treatments for lice counts
If other, detail:	
2. Medicines records available for inspection?	Y
3. Are records complete and correctly entered?	Y
4. Are fish in a withdrawal period?	Y
5. If yes, what treatment(s)?	Tricane for lice counts
If other, detail:	
6. Are medicines stored appropriately?	Y

Biosecurity Records

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

Results of Surveillance

1. Has any animal health surveillance been carried out by, or on behalf of, the business?	Y
2. If yes, are results available for inspection?	Y
3. Any significant results?	Y
If yes, detail (if not detailed under recent disease problems).	AGD from sample taken in June 2021
Records checked between:	May 2019 - present date

Case no:	2021-0356	Site No:	FS1305	Date of visit/ Sampling:	05/10/2021	05/							
Priority samples:	VI		BA		PA		MG		HI				
Time sampling starts/ends:	13:30:00	15:00:00	Inspector:		VMD No.	12							
Environmental conditions:	1	Indoors	2		3		4		5				
Summary samples	HIST	Y	BA	Y	MG	Y	VI		PA		Total Samples		

Add Fish/Pools - click

	Pool/Fish No	F1	P1	F2	F3	P2	F4	F5	P3				
	Fish nos	1	1	2	3	2-3	4	5	4-5	6	7		
	Pool Group	1		2	2		3	3					
Stock Details	Species	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL		
	Average weight	3.3000	3.3000	3.3000	3.3000	3.3000	3.3000	3.3000	3.3000	3.3000	3.3000		
	Sex	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Water Type	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW		
	Stock Origin	Barcaldine	Barcaldine	Barcaldine	Barcaldine	Barcaldine	Barcaldine	Barcaldine	Barcaldine	Barcaldine	Barcaldine		
	Facility No	1	1	2	2	2	16	16	16	9	9		

10/2021 Additional Sample Information:

8 Total Tests assigned 3

Case no: 2021-0356 Site No: FS1305 Method of killing: Percussive

Date of visit: 05/10/2021 Inspector(s): [redacted] Sheet Relevant: Y

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

Fish Number		1	2	3	4	5					
Time sampled after death (if > 45 minutes)		>1 hou	>1 hou	>1 hou	>1 hou	>1 hour					
External Signs											
Behaviour	Moribund	S				S					
	Lethargic	S	W		W	S					
	Hanging vertical	S				S					
	Spiralling										
	Flashing										
	Loss of equilibrium	S		S		S					
Body	Dark										
	Distended abdomen										
	Anorexic		M	W	W						
	Scale Oedema										
Opercula	Shortened			M	M						
	Flared										
Haemorrhaging	Throat										
	Ventrum										
	Base of fins										
	Elsewhere										
Eyes	Exophthalmic										
	Enophthalmic (sunken)										
	Cataract										
	Haemorrhagic										
Gills	Pale	S				W					
	Zoned										
	Necrotic										
Lesions	Flank										
	Elsewhere										
Vent	Inflamed										
	Trailing faeces										
Lice Load	Estimate numbers										
Internal Signs											
Ascites	Clear										
	Bloody										
Oedema	In tissues										
Heart	Pale/anaemic										
	Granulomas										
	Deformed										
Liver	Petechial haem										
	Gross haem		S	W	W	W					
	Tissue breakdown										
	Enlarged										
	Colour number(s)	3	5	5	4	4					
	Granulomas										
	Lesions										
Pyloric caeca	Petechial haem	W									
	Tubules mauve										
	Lack of fat		M								
Spleen	Enlarged					W					
	Granulomas										
Gut	No food present										
	Yellow pseudo-faeces										
	External haem										
	Internal haem										
Body wall	Haemorrhaging										
Swim bladder	Haemorrhaging										
	Fluid filled										
Kidney	Swollen										
	Grey										
	Granular										
	Liquefied										
General	Parasites present										
	Anaemia										

Case no: 2021-0356

Date of visit: 05/10/2021

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

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

Additional comments:

F1 and F5 - good sized fish observed gasping and hanging vertical moving up and down through the water column. F1 gills damaged pale and clumped, F5 clumped gills. F1 food in gut, excess fat around edges of the spleen, liver mustard in colour. F2 haemorrhaging over the gill tips, yellow brown mucus within hind gut. F3 suspected very recently dead - may impact on histology findings - brown mucus in gut. F4 and F5 food in gut.

Case Number:	2021-0356		Site No:	FS1305	Insp:	
Date of Visit	05/10/2021					

		No of movements/supp./dest.				Score
Live fish movements		**0**	**1-5**	**6-10**	**>10**	
Movements on (from out with GB) of susceptible species	Frequency of movements on from equivalent MS	0	5	10	14	0
	Frequency of movements on from equivalent zone or compartment including third country	0	9	18	26	0
	Number of suppliers	0	5	10	14	0
Movements off	Frequency of movements off	0	3	6	10	10
	Number of destinations	0	3	6	10	3
Exposure via water	**Site contacts**	**0**	**1-5**	**6-10**		
Water contacts with other farms (holding species susceptible to same diseases)	Farm is protected (secure water supply through disinfection or borehole)	0				
	Farm is on-line or in a coastal zone with category I farms upstream or within 1 tidal excursion	1	2	4		4
	Farm is on-line or in a coastal zone with category III farms upstream or within 1 tidal excursion	1	3	6		
	Farm is on-line or in a coastal zone with category V farms upstream or within 1 tidal excursion	1	4	8		
Management practices		None	Secure	Unsecure		
Water contacts with processors	Any processing plant discharging into adjacent waters	0	1	2		0
On farm processing within the rules of the directive	No on farm processing	0				0
	Processing own fish (re-cycling risk)	1				
	Processing fish from MS of equivalent status	2				
	Processing fish from zone or compartment of equivalent status	4				
	Processing fish from Category III farm	8				
	Processing fish from Category V farm	10				
Disposal of fish and fish by-products	Site's own waste only processed.	0				0
	Common processes with other farms	3				
	Collection point for waste from other farms	5				
Use of unpasteurised feeds	No feeding of unpasteurised feed	0				0
	Feeding unpasteurised feed	5				
Biosecurity	**Number of sites**	**1**	**2 or 3**	**≥ 4**		
Contacts with other sites	Sites operating from single shorebase	0	1	2		1
	Sites sharing staff and equipment	0	1	2		1
Disinfection of equipment between sites, use of footbaths etc	Yes	0				0
	No	1				
CoGP/Regulator						
Practices in accordance with regulator or industry code of practice	Yes	0				0
	No	3				
Platform access to cages	Yes	0				0
	No	2				
				Total		**19**
				Rank		**MEDIUM**

Case No: 2021-0356 Site No: FS1305

Sea Lice Inspection (Seawater Sites Only)

1. Has the site experienced sea lice problems in the previous 4 years?	N
2. Is the CoGP Farm Management Area (or equivalent) fallowed synchronously on a single year class basis?	N
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?	Y
4. Is there a signed documented farm management agreement or statement relevant to the site and CoGP Farm Management Area (or equivalent)?	Y
5. Are sea lice count records available for inspection? (Legal SSI, CoGP Annex 6)	Y
6. Do records adequately reflect the required standard specified in the SSI and the CoGP? (Legal SSI, CoGP Annex 6)	Y
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)	Y
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?	N
If yes, have these been reported to the Fish Health Inspectorate? If no, FHI see comment.	N/A
9. Is *C. elongatus* infestation at a level which is considered to cause significant welfare problems? (CoGP 4.3.81, 5.3.50)	N
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)	Y
11. Has any other action been taken (where applicable)?	N/A
12. Have therapeutic treatments or the actions taken had a significant impact upon the lice levels recorded?	Y
13. Are treatments, where conducted, carried out in cooperation between participating farms?	N/A
14. Is there a harvesting strategy for the site, where fewer populations or part populations are held without treatment for sea lice?	Y
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?	Y
16. Do the sea lice levels observed on stocks reflect sea lice count data? If no please detail reasons.	Y

Containment Inspection

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

seal pro nets 50 mm bird nets

If other, detail below:

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

Case No: 2021-0356 Site No: FS1305

Date of Visit: 05/10/2021 Inspector: [redacted]

Point of Compliance

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

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?	Y
3. Is the current FMAg/S available for inspection?	Y
4. Does the FMAg/S identify the relevant farm management area?	Y
5. Does the FMAg/S identify the fish farm site(s) to which it applies?	Y
6. Does the FMAg/S identify the date of commencement of the agreement or statement?	Y
7. Does the FMAg/S identify the date of review?	Y

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?	Y
9. Does the FMAg/S identify the vaccination requirements for stocks held in the area or farm?	Y
10. Does the FMAg/S identify the species of fish which may be stocked into the area or farm?	Y
11. Does the FMAg/S identify the maximum stocking density of any pen on any farm in the area or the individual farm?	Y
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?	Y

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?	Y
14. Does the FMAg/S identify the availability and the use of medicines on farms covered by the agreement of statement?	Y
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?	Y
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?	Y
17. Does the FMAg/S identify the arrangements for synchronous treatments on farms within the area?	Y

Live Fish Movements

18. Does the FMAg/S identify the circumstances when live fish may be introduced or removed from the area or farm?	Y
19. Does the FMAg/S identify the arrangements for the movement of live fish on and off sites in the area or individual farms?	Y

Harvesting

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

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? Y

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

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

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? Y

Management and operation

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

26. What is the version no/date of issue of the FMAg/S? Date - January 2021

Site No: FS1305

Case No: 2021-0356

Nature of non-compliance:

Action taken (FHI):

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

Case No: 2021-0356 Date of visit: 05/10/2021

Site No: FS1305 Inspector:

Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2nd Insp
AGDQ	5/5	15/10/2021		*		10/12/2021		
PNST	5/5	15/10/2021		*		10/12/2021		
SPVP	4/5	15/10/2021		*		10/12/2021		
VHSP	0/3	15/10/2021		*		10/12/2021		
SPDP	0/3	15/10/2021		*		10/12/2021		
ISAQ	0/3	15/10/2021		*		10/12/2021		
IPNM	0/3	15/10/2021		*		10/12/2021		
IHNP	0/3	15/10/2021		*		10/12/2021		
VSPE	5/5	27/10/2021		**		10/12/2021		
GPAT	3/5	27/10/2021		**		10/12/2021		
SPAT	1/5	27/10/2021		**		10/12/2021		
PMCH	2/5	27/10/2021				10/12/2021		
PMCH	1/5	27/10/2021				10/12/2021		

Report Summary			
Case Type	Date	Insp	2nd Insp
ECI, SLI, CNI, VMD	08/12/2021		
DIAG	10/12/2021		

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NO	FB0125	**DATE OF VISIT**	05/10/2021
SITE NO	FS1305	**SITE NAME**	Westerbister
CASE NO	20210356	**INSPECTOR**	[redacted]

Section 1: Summary

During a routine inspection moribund and lethargic fish were observed on site and removed for diagnostic sampling. Increased mortality, reported to be associated with complex gill disease was being experienced on site at the time of the inspection.

Histopathological examination revealed mild proliferative gill pathology, mild hepatic necrosis and splenic necrosis. Positive results for Salmon Gill Poxvirus, *Neoparamoeba perurans and Paranucleospora theridion were obtained. These results* support the suggestion of complex gill disease, which is likely to be a factor contributing to the mortality being experienced on site at the time of the visit.

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

Section 2: Case Detail

Observations

During a routine inspection several moribund and lethargic fish were observed on site and five were removed for closer observation and diagnostic sampling. At the time of the inspection the site was stocked with 447,878 2020 Q2s at an average weight of 3.362 kg. Increased mortality was being experienced, up to the level of 11.35% for the four weeks prior to the inspection and was believed to be a consequence of complex gill disease.

Behavioural, clinical and pathological signs of disease were observed across the 5 fish and included: hanging vertical in the water column (fish 1 and 5); loss of equilibrium (fish 1, 3 and 5); anorexia (fish 2, 3, and 4); pale clumped gills were observed (fish 1 and 5); haemorrhaging over the gills tips (fish 2); gross haemorrhaging across the liver (fish 2, 3, 4, and 5); petechial haemorrhaging over the pyloric caeca (fish 1); reduced fat levels across the pyloric caeca (fish 2); enlarged spleen (fish 5). In addition, fish 3 and 4 had reduced opercula.

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

Samples

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

Fish number	Pool number	Facility number	Species	Stage	Origin
1	1	1	Atlantic salmon	3.3 kg / 2020	Barcaldine
2 & 3	2	2	Atlantic salmon	3.3 kg / 2020	Barcaldine
4 & 5	3	16	Atlantic salmon	3.3 kg / 2020	Barcaldine

Results

The results for this case are as follows:

Bacteriology:

Kidney and gill material from all five fish was inoculated onto appropriate media for the isolation of bacteria.

- *Vibrio* sp. : F1-F5 (gill) was isolated from the samples taken.

The level and purity would not suggest this bacterium would be implicated in fish morbidity.

Virology:

Pooled tissue samples, in accordance with the table above, were tested for segments of nucleic acid indicative of the presence of the pathogens specified below using real-time PCR (qPCR).

The samples tested negative for infectious haematopoietic necrosis virus (IHNV), infectious pancreatic necrosis virus (IPNV), infectious salmon anaemia virus (ISAV), salmonid alphavirus (SAV) and viral haemorrhagic septicemia virus (VHSV) for pools 1 and 2. No result was obtained from pool 3 due to endogenous control failure from two separate extractions suggesting that the sample for RNA was not at an acceptable quality or quantity to determine either the absence or presence of specific pathogens.

In addition, individual fish tissue samples were tested for segments of nucleic acid indicative of the presence of Salmon gill poxvirus (SGPV) using real-time PCR (qPCR).

Salmon gill poxvirus (SGPV)

Fish Number	**Endogenous control Cp value**	**Cp Values**			**Reported Result (PCR)**
F1	18.37	-	-	-	Negative
F2	19.14	30.04	30.09	30.02	Positive
F3	18.40	27.04	26.77	26.86	Positive
F4	19.43	27.13	27.01	27.50	Positive
F5	18.37	29.46	29.57	29.45	Positive

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Parasitology:

Tissue samples from individual fish were tested for segments of nucleic acid indicative of the presence of the parasites *Neoparamoeba perurans* (the causative agent of Amoebic Gill Disease) and *Paranucleospora theridion* using real-time PCR (qPCR). Positive results for tests for both parasites, from all samples taken, were obtained according to the tables below.

Neoparamoeba perurans (AGD)

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	18.37	32.77	35.08	34.44	Positive
F2	19.14	26.43	26.52	26.68	Positive
F3	18.40	26.21	26.09	26.22	Positive
F4	19.43	29.46	29.31	29.45	Positive
F5	18.37	27.52	27.65	27.70	Positive

Paranucleospora theridion

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	18.37	28.93	29.08	28.91	Positive
F2	19.14	27.38	27.48	27.52	Positive
F3	18.40	27.75	28.00	27.98	Positive
F4	19.43	30.31	29.95	30.21	Positive
F5	18.37	29.93	30.31	30.33	Positive

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

Histopathological examination revealed the following:

Gill: Mild multifocal hyperplasia (F1, F4), several individual lamellae displayed epithelial thickness and some prominent goblet cells (F1). F4 also exhibited some lamellar vascular disturbance, however the tissue present is very limited, only taken one gill filament. F5 displayed lamellar adhesions, irregular epithelium, spongiosis and lamellar vascular disturbance. Fish 3 displayed autolysis artefacts which hindered the reading.

Skin & Muscle: Within the normal range.

Heart: Mild pericarditis (F1 & F5) and a small thrombus in the compact layer.

Gut and pyloric caeca: Area of haemorrhage observed on the adipose tissue (F5). Marked cell sloughing (likely associated with post-mortem artefacts) (F1, F3).

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

Pancreas: Within normal range.

Liver: Mild multifocal hepatic necrosis (F1 & F2), mild diffuse hepatocellular vacuolation (macrovisicules) (F1 & F5).

Kidney: Within normal range.

Spleen: Absence of haematopoietic tissue (F1) and F4 displayed focal reduction of white pulp.

Signed: [redacted] Date: 10 December 2021

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/

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

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NO	FB0125	**DATE OF VISIT**	05/10/2021
SITE NO	FS1305	**SITE NAME**	Westerbister
CASE NO	20210356	**INSPECTOR**	[redacted]

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

The above site was inspected in accordance with the Aquatic Animal Health (Scotland) Regulations 2009.

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

Records

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

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

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

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

Mortality records were inspected and found to be adequately maintained.

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.

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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: [redacted] Date: 8 December 2021

Fish Health Inspector

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Tel – 0131 244 3498 Email – ms.fishhealth@gov.scot
Website - https://www.gov.scot/policies/fish-health-inspectorate/

Case No: 2021-0406 Date of visit: 13/10/2021

Time spent on site: 3hours Main Inspector: [redacted]

Site No: FS1010 Site Name: East Tarbert Bay
Business No: FB0169 Business Name: The Scottish Salmon Company

Case Types: 1 DIA 2 3 4 5 6

Water Temp (°C): 13.6 Thermometer No: T146 FHI 045 completed

Observations: Region: ST Water type: S CoGP MA: M-46

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:

All salmon input from Geisgil. Transported in FW. Lump fish input from Ocean Matters and Otterferry,

Morts/site/wk; Wk30 0.32%, Wk31 0.9%, Wk32 1.85%, Wk33 1.07%, Wk34 0.96%, wk35 1.19 %, Wk36 1.3%, Wk37 1.4%, wk38 10.84%, Wk39 20%, Wk40 14.5%, Wk 41 0.95% - part week.

Currently divers are removing about 200 morts/cage/day.

There were a number of mortality disposal methods available for the two sites;

• Billy Bowie- whole in skips to Barkip Biogas (collection docs observed).

• Gogar – Energen Bio Gas- to Dunnswood Road, Cumbernauld (collection docs observed).

• They have a new well boat the Buccaness - hydrolicer and macerator/ensiler. Can hold 1000 cube of morts, current morts on-board of 200 cube. - material ensiled with formic acid. Then it will be pumped off into tankers and used as biofuel but uncertain currently of final destination. The boat was present during our visit.

• Fergusons boat for mort removal had been used but was not on site during our visit.

Collection docs were available for inspection from Billy Bowie and Gogar. Capacity for mort disposal was in my opinion adequate and staff numbers at the sites were increased to deal with the mortalities with staff being brought in from other areas. Divers were also present at the time of our visit for mortality removal.

Lice; caligus peaked wk37 at 10.37. Increased mortality had prevented treatment and there was evidence on site of lice damage on some fish.

Treatments;Hydrolicer 24/6/21- 2/6/21, FW and salmosan 18/7/21-23/7/21, hydrolicer 4/8-14/8, salmosan 28/8, hydroliced 1/9-4/9, hydrolicer 27/9/-4/10, FW panned 13/10/21.

Health surveillance;
AGD- low level. Most resent sample slight higher but not at levels which would be considered to have caused mortality.

PCV - haematocrit levels. Have fallen in last couple of weeks.

CPK -muscle fatigue for PD- have been low levels showing recovery from infection.

Mortality considered to be due to environmental insult but no jellies observed in water samples. Upwell species were observed.

Morts - normally taken by site boat and skipped at shore base. Divers in daily to remove morts. - numbers of fish on site will be reviewed following a fw well boat treatment.

Case No:	2021-0406	Site No:	FS1010
Date of Visit:	13/10/2021	Inspector(s):	[redacted]

Registration/Authorisation Details

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

Site Details (include cleaner fish for all sections)

Total No facilities		12	Facilities stocked		12	No facilities inspected		3
Species	sal	lumps						
Age group	2020 S0							
No Fish	408,113	70,000						
Mean Fish Wt	2.3							
Next Fallow Date (Site)		2022 Q2		Next Input Date (Site)		2022 Q3		
Recent (last 4 wks) disease problems?				Y	Any escapes (since last visit)?			N
If yes, detail:	see additional info							

Movement Records

1. Movement records available for inspection?	Y
2. Date of last inspection:	26/05/2021
3. Are records complete and correctly entered?	Y
4. Are movement records available for dead fish and waste?	Y
5. Are records complete and correctly entered?	Y
6. Are health certificates for introductions (outwith GB) available?	N/A

Transport Records

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

Mortality Records

1. Mortality records available for inspection?	Y
2. How are mortalities disposed of?	Biogas - Barkip
If other detail:	see additional info for further details
3. Mortality records complete and correctly entered?	Y
4. Recent mortality (last 4 wks):	see additional info
5. Evidence of recent increased/atypical mortalities?	Y
If yes, facility nos/no mortality per facility/no stock per facility/reason:	
Across whole site - environmental gill damage and anaemia	
6. Any other peaks in mortality during period checked?	N
If yes, detail:	
7. Have increased (unexplained) mortalities been reported to vet or FHI?	Y
If yes, detail action:	health visits and fw treatments undertaken,
8. Have 'mortality events' been reported to FHI? If no, enter details on mortality events sheet.	Y

Treatments and Medicines Records

1. Recent treatments (see comment)?	N
If yes, detail:	
If other, detail:	
2. Medicines records available for inspection?	N/A
3. Are records complete and correctly entered?	
4. Are fish in a withdrawal period?	N/A
5. If yes, what treatment(s)?	
If other, detail:	
6. Are medicines stored appropriately?	N/A

Biosecurity Records

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

Results of Surveillance

1. Has any animal health surveillance been carried out by, or on behalf of, the business?	Y
2. If yes, are results available for inspection?	Y
3. Any significant results?	Y
If yes, detail (if not detailed under recent disease problems).	
Environmental insult - anaemia	
Records checked between:	26/5/21- 13/10/21

Case no:	2021-0406	Site No:	FS1010	Date of visit/ Sampling:	13/10/2021	13/1							
Priority samples:	VI		BA		PA		MG		HI				
Time sampling starts/ends:	12:00:00	13:00:00	Inspector:		VMD No.	0							
Environmental conditions:	1	Indoors	2		3		4		5				
Summary samples	HIST	Y	BA	Y	MG	Y	VI		PA		Total Samples		

Add Fish/Pools - click

	Pool/Fish No	F1	F2	F3	F4	F5	P1						
	Fish nos	1	2	3	4	5	1-5						
	Pool Group	P1	P1	P1	P1	P1							
Stock Details	Species	SAL	SAL	SAL	SAL	SAL	SAL						
	Average weight	3kg	3kg	3kg	3kg	3kg	3kg						
	Sex												
	Water Type	SW	SW	SW	SW	SW	SW						
	Stock Origin	Geisgil	Geisgil	Geisgil	Geisgil	Geisgil	Geisgil						
	Facility No	7	7	9	9	9	7,9						

10/2021 Additional Sample Information:

Gill issues sample put in RNA later. Diag PCR put in DNA later.

6 Total Tests assigned 5

Case no: 2021-0406 Site No: FS1010 Method of killing: Percussive

Date of visit: 13/10/2021 Inspector(s): [redacted] Sheet Relevant: Y

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

Fish Number		1	2	3	4	5					
Time sampled after death (if > 45 minutes)											
External Signs											
Behaviour	Moribund	M	M	S	S	S					
	Lethargic	S	S	S	S	S					
	Hanging vertical										
	Spiralling										
	Flashing										
	Loss of equilibrium										
Body	Dark			M	M	M					
	Distended abdomen										
	Anorexic					S					
	Scale Oedema										
Opercula	Shortened										
	Flared										
Haemorrhaging	Throat										
	Ventrum										
	Base of fins										
	Elsewhere										
Eyes	Exophthalmic										
	Enophthalmic (sunken)										
	Cataract										
	Haemorrhagic			S	S	S					
Gills	Pale	M	M	W	W	W					
	Zoned										
	Necrotic	W	W								
Lesions	Flank										
	Elsewhere	S			S						
Vent	Inflamed										
	Trailing faeces										
Lice Load	Estimate numbers	>10	>10	>10	>10	>10					
Internal Signs											
Ascites	Clear										
	Bloody		M								
Oedema	In tissues										
Heart	Pale/anaemic		S								
	Granulomas										
	Deformed										
Liver	Petechial haem										
	Gross haem										
	Tissue breakdown										
	Enlarged										
	Colour number(s)	1	1	6	6	6					
	Granulomas										
	Lesions										
Pyloric caeca	Petechial haem					M					
	Tubules mauve										
	Lack of fat										
Spleen	Enlarged										
	Granulomas										
Gut	No food present	S	S	S	S	S					
	Yellow pseudo-faeces	M	M	M	M	M					
	External haem										
	Internal haem			M							
Body wall	Haemorrhaging										
Swim bladder	Haemorrhaging										
	Fluid filled										
Kidney	Swollen										
	Grey										
	Granular										
	Liquefied										
General	Parasites present										
	Anaemia										

Case no: 2021-0406

Date of visit: 13/10/2021

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

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

Additional comments:

Eyes from fish 3-5 were missing. Fish 1 and 4 Head lesion - like lice damage. Fish 1-5 tips ragged.

Site No: FS1010

Case No: 2021-0406

Nature of non-compliance: Gill issues sample put in RNA later. Diag PCR put in DNA later.
Action taken (FHI): Labs inform
Non-compliance relevant to (delete): VirologyMolGen/Bacteriology/Histology/Parasitology

Case No: 2021-0406 Date of visit: 13/10/2021

Site No: FS1010 Inspector:

Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2nd Insp
MG_AGDQ	5/5	22/10/2021		22/10/2021		13/12/2021		
MG_Para_Thera	5/5	22/10/2021		22/10/2021		13/12/2021		
MG_SAL_POX	5/5	22/10/2021		22/10/2021		13/12/2021		
VSPE - 3 isolates	2/5	17/11/2021		01/12/2021		13/12/2021		
AMGD	1/5	17/11/2021		01/12/2021		13/12/2021		
CGDH	5/5	17/11/2021		01/12/2021		13/12/2021		
EPIT	1/5	17/11/2021		01/12/2021		13/12/2021		
LPAT	4/5	17/11/2021		01/12/2021		13/12/2021		
MPAT	3/5	17/11/2021		01/12/2021		13/12/2021		
SULC	2/5	17/11/2021		01/12/2021		13/12/2021		
ISA	0/1	13/12/2021				13/12/2021		
VHS	o/1	03/12/2021				13/12/2021		
IHN	0/1	03/12/2021				13/12/2021		
IPN	1/1	03/12/2021				13/12/2021		
SAV	0/1	03/12/2021				13/12/2021		

Report Summary			
Case Type	Date	Insp	2nd Insp
Diag	13/12/2021		

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NO	FB0169	**DATE OF VISIT**	13/10/2021
SITE NO	FS1010	**SITE NAME**	East Tarbert Bay
CASE NO	20210406	**INSPECTOR**	[redacted]

Section 1: Summary

East Tarbert Bay was visited for a diagnostic health inspection following reports of significant mortality at the site. Five moribund fish were removed for diagnostic examination.
Histopathology examination revealed mild multifactorial proliferative branchitis. Pathology was also consistent with amoebic gill disease confirmed by PCR positive result for *Neoparamoeba perurans* and epithelyocists were also present. F1 and F5 displayed absence of pancreatic acinar cell and F4 exhibited a mild myositis; possibly associated with salmon alpha virus (SAV).

Due to gill health issues observed on site, samples were screened for salmon gill poxvirus (SPGV) and *Paranucleospora theridion* (syn. *Desmozoon lepeophtherii*) by qPCR and tested positive for both pathogens.

Vibrio spp. were identified, the level and purity would not suggest it would be implicated as a primary fish pathogen in this case.

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

East Tarbert Bay was visited following reports of significantly increased mortalities starting in August 2021 and peaking at 20% mortality (120,580 fish) for the site in the week beginning 27/09/21. Mortalities have been attributed to environmental and gill health related issues. On inspection moribund fish were observed in the pens and five were removed to diagnostic examination.
Externally fish 3 to 5 were dark and had haemorrhaging in the eyes. All five fish exhibited pale ragged gills and fish 1 and 2 had necrotic gills. Lice numbers were in excess of 10, all stages on all the fish. Fish 1 and 4 had head lesions. Internally fish 5 had petechial haemorrhaging on the pyloric caeca. Fish 2 had bloody ascites within the body cavity and a pale heart. Fish 3 had internal haemorrhaging of the gut.

Samples

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

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

Fish number	Pool number	Facility number	Species	Stage	Origin
1 & 2	1	7	Atlantic salmon	2020 S0 @ 3 Kg	Geasgill
3-5	1	9	Atlantic salmon	2020 S0 @ 3 Kg	Geasgill

Results

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

The following bacterium was isolated:

- *Vibrio* sp. (isolate A) – F5 (kidney), F4 (lesion)
- *Vibrio* sp. (isolate B) - F1 & F4 (lesion)
- *Vibrio* sp. (isolate C) –F1 & F4 (lesion)

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

Salmon gill poxvirus (SGPV)

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	18.93	23.58	23.76	23.68	POSITIVE
F2	18.84	22.71	22.79	22.82	POSITIVE
F3	18.23	22.3	22.28	22.3	POSITIVE
F4	19.01	23.28	23.26	23.3	POSITIVE
F5	18.65	26.79	26.76	26.68	POSITIVE

Samples were screened for the presence of infectious haematopoietic necrosis virus (IHNV), infectious salmon anaemia virus (ISAV), infectious pancreatic necrosis virus (IPNV), salmonid alphavirus (SAV) and viral haemorrhagic septicemia virus (VHSV) by cell culture.

The samples tested positive for infectious pancreatic necrosis virus (IPNV) by cell culture. PCR and sequencing were performed to determine virulence motif. The IPNV is of low-moderate virulence.

The test results for the other pathogens were negative.

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	18.93	29.32	29.32	29.4	POSITIVE

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

F2	18.84	27.28	28.79	28.53	POSITIVE
F3	18.23	27	27	27.02	POSITIVE
F4	19.01	29.83	29.04	28.61	POSITIVE
F5	18.65	26.13	26.09	26.13	POSITIVE

Paranucleospora theridion

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	18.93	24.36	24.39	24.31	POSITIVE
F2	18.84	22.84	22.88	22.88	POSITIVE
F3	18.23	29.69	29.45	29.73	POSITIVE
F4	19.01	24.79	24.76	24.66	POSITIVE
F5	18.65	24.02	24.17	24.16	POSITIVE

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

Histopathological examination revealed the following:

Gill: Minimal to mild multifocal hyperplasia and lamellar fusion, some lacunae (some filled with cell debris) observed on the hyperplastic plaques (F2, F3 & F5). F1 displayed some gill filament bluntness. Few amoeboid cells resembling *Neoparamoeba perurans* (F5) and basophilic epithelial inclusions (likely epitheliocystis) (F2). Several thrombi in the lamellar vessels noted in all fish. F4 displayed autolytic artefacts which hindered the reading.
Skin & Muscle: Absence of epidermal and dermal layer, inflammatory cell infiltration (mainly mononuclear cells) observed in the hypodermis (F1 & F4). F3 displayed mild degeneration of the skeletal red muscle and inflammatory cell infiltration.
Heart: Within normal range.
Gut and pyloric caeca: Within normal range.
Pancreas: Absence of pancreatic acinar cells (F1 & F5).
Liver: Several clusters of hepatocyte displayed pyknotic nuclei (F1). Mild multifocal hepatic necrosis (F2), small area of hepatocyte vacuolation (F5 & F4).
Kidney: some reduction of the haematopoietic tissue (F5).
Spleen: Within normal range.

Signed: [redacted] Date: 13/12/2021

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/

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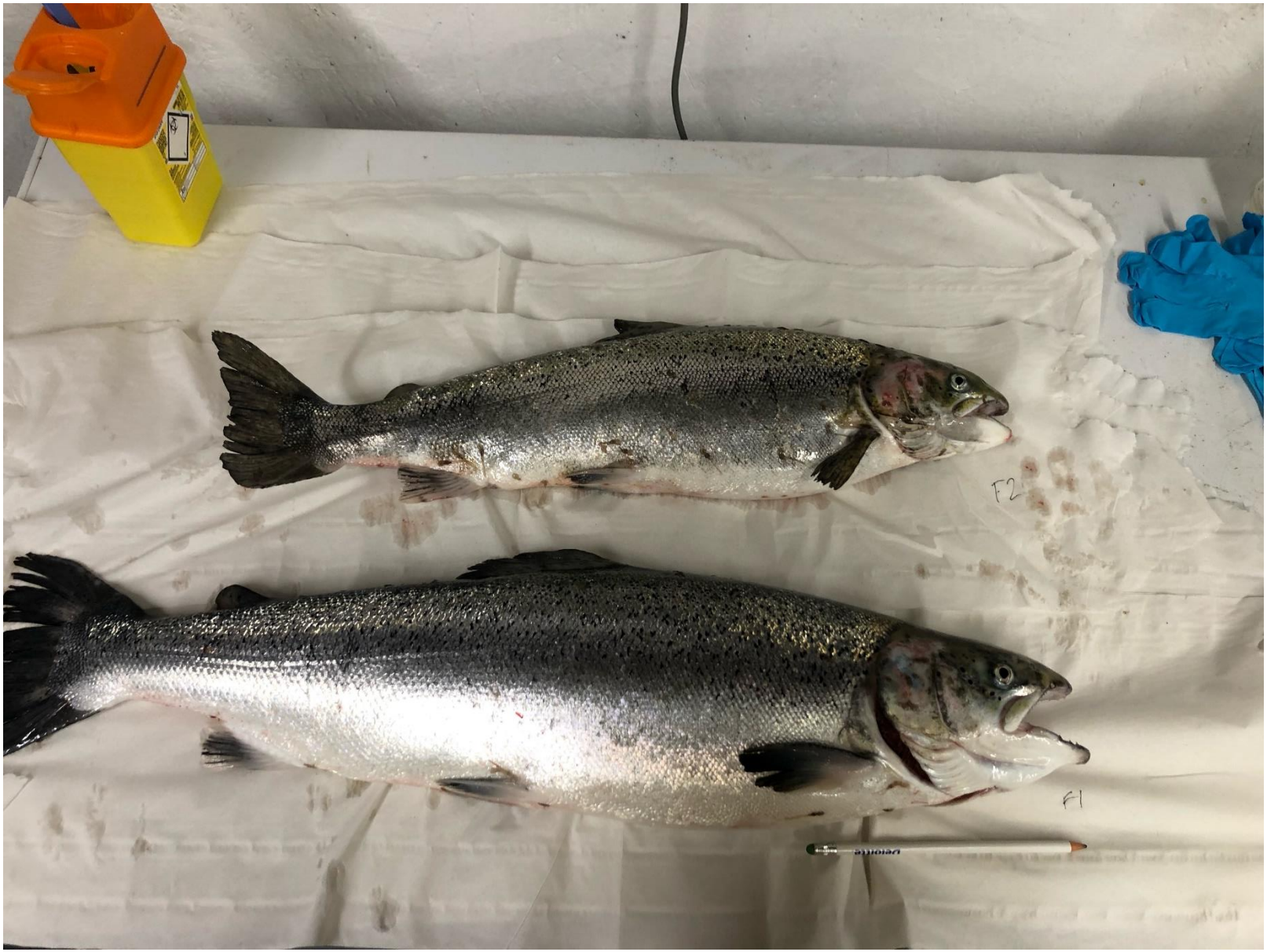
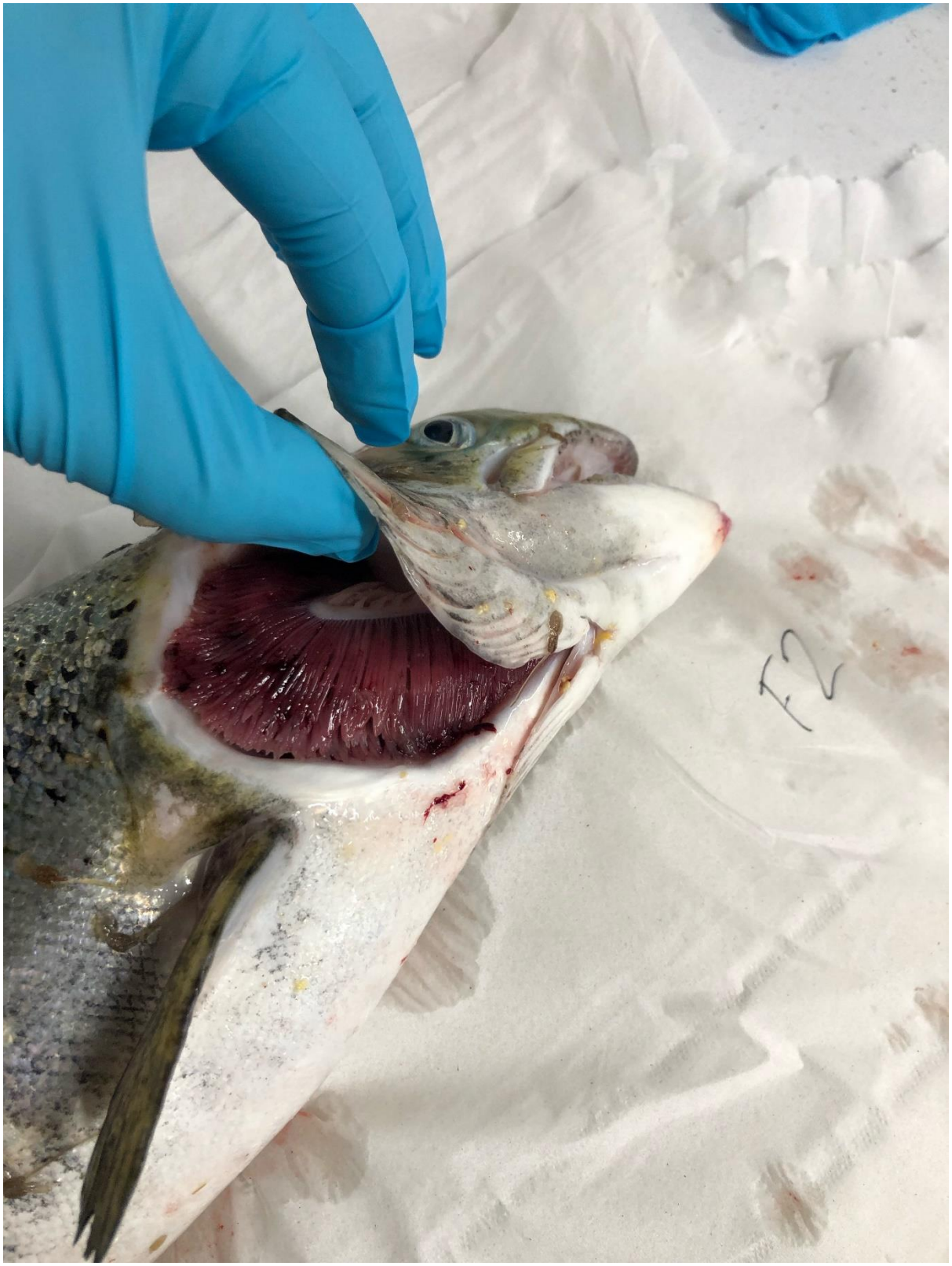

F2
F1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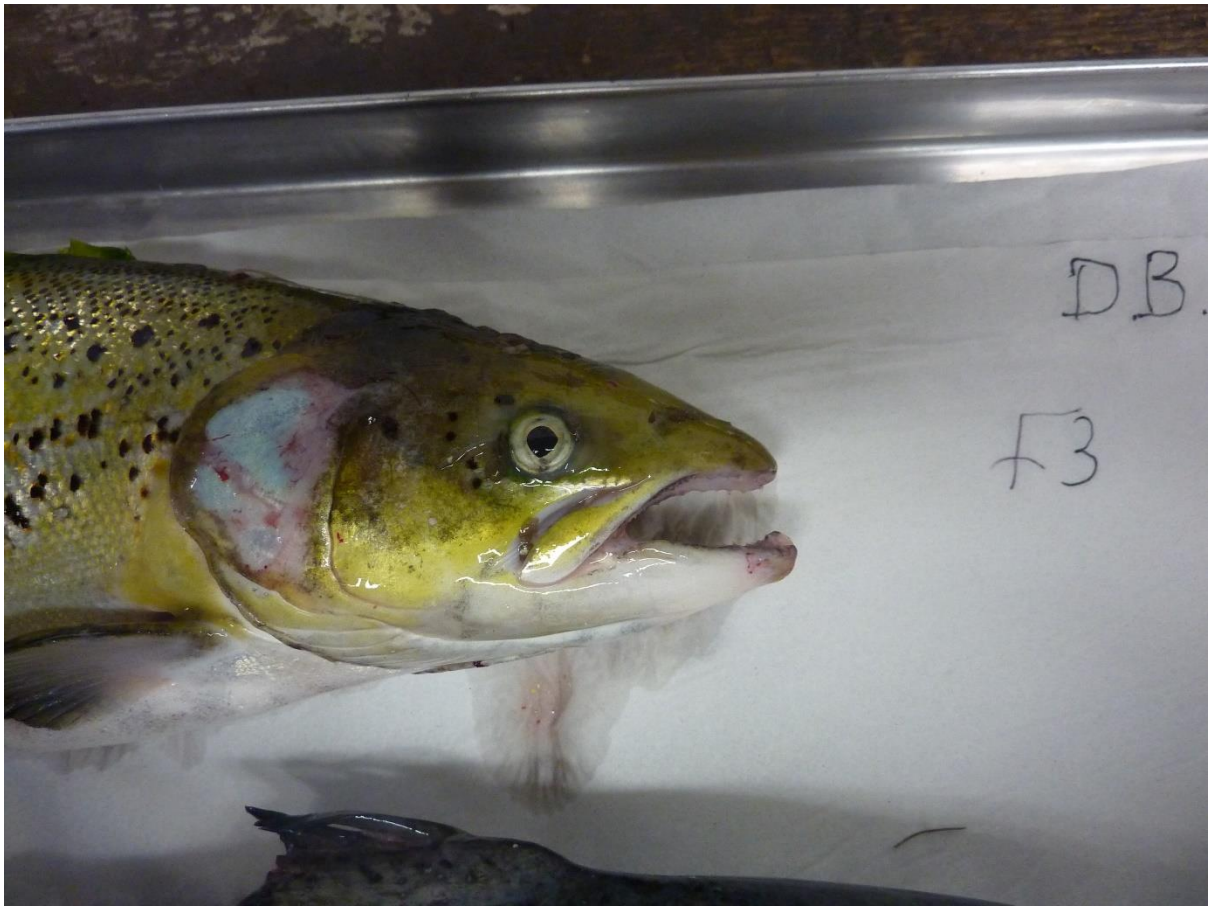
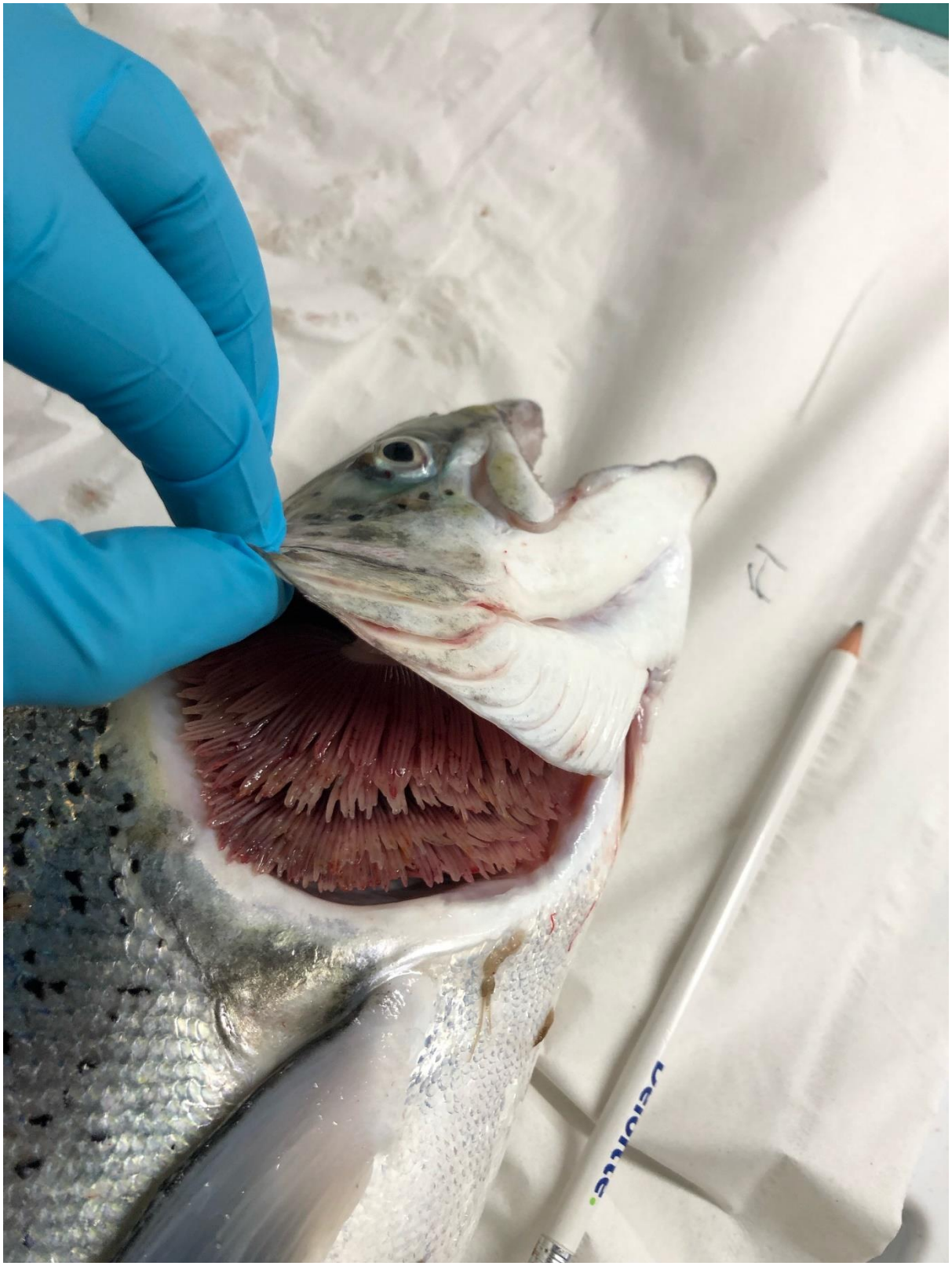
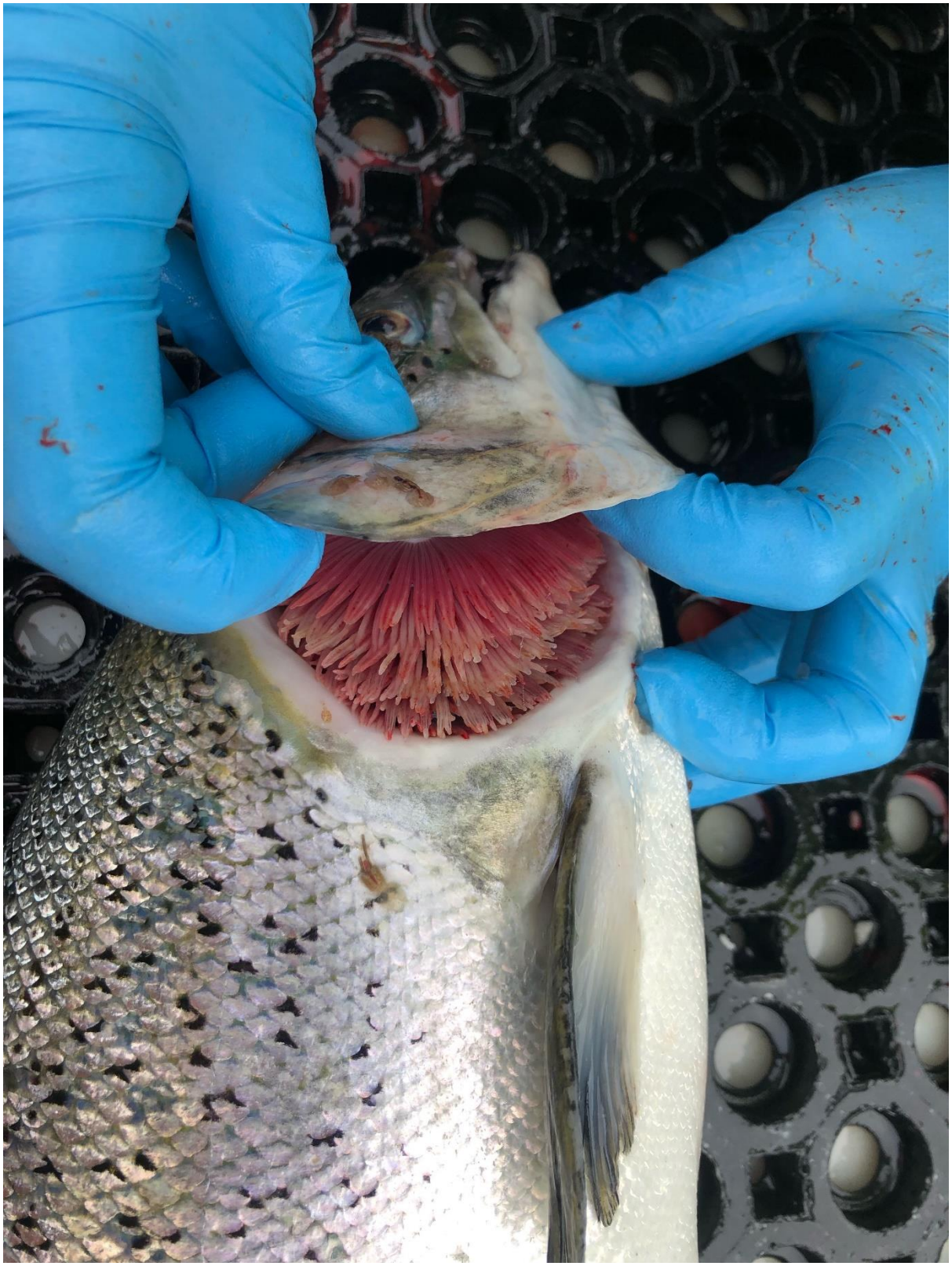
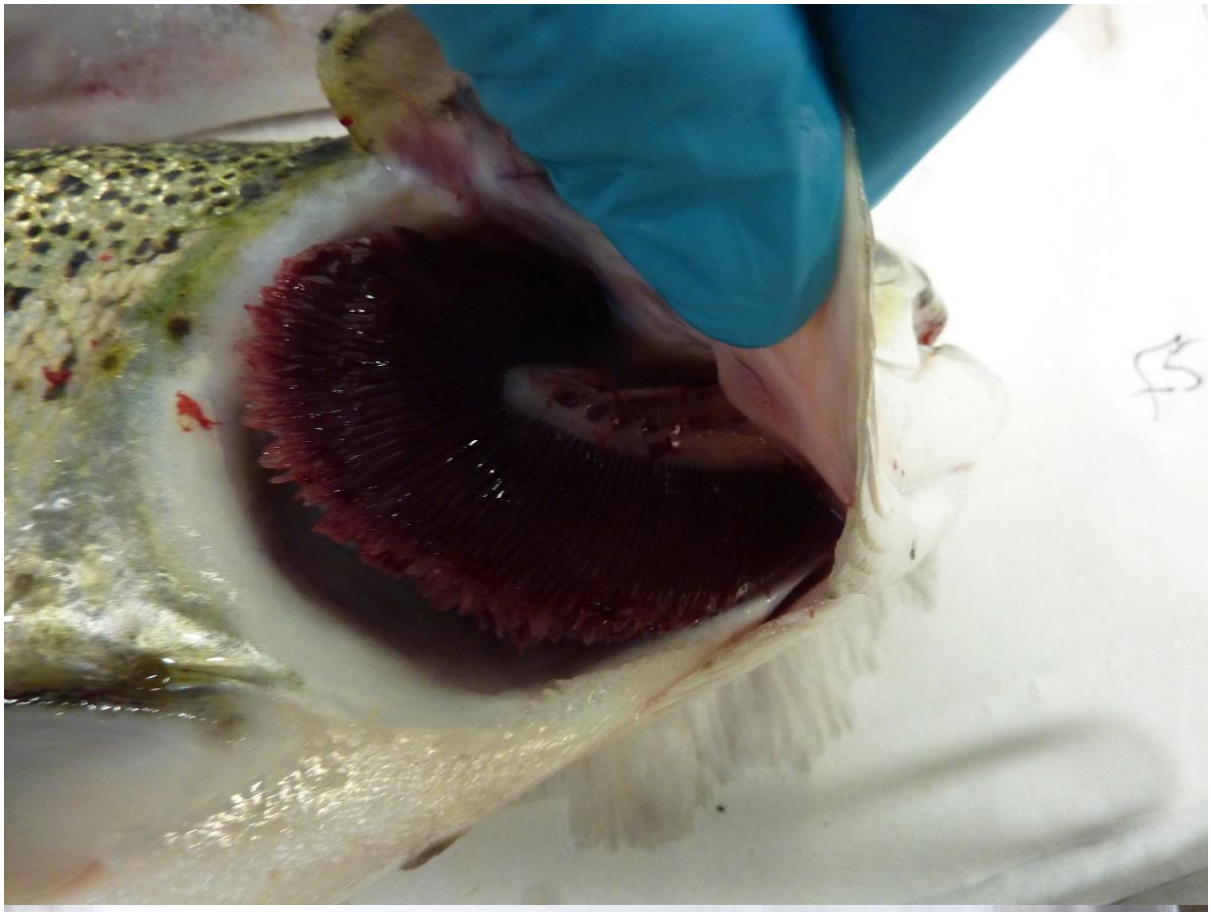
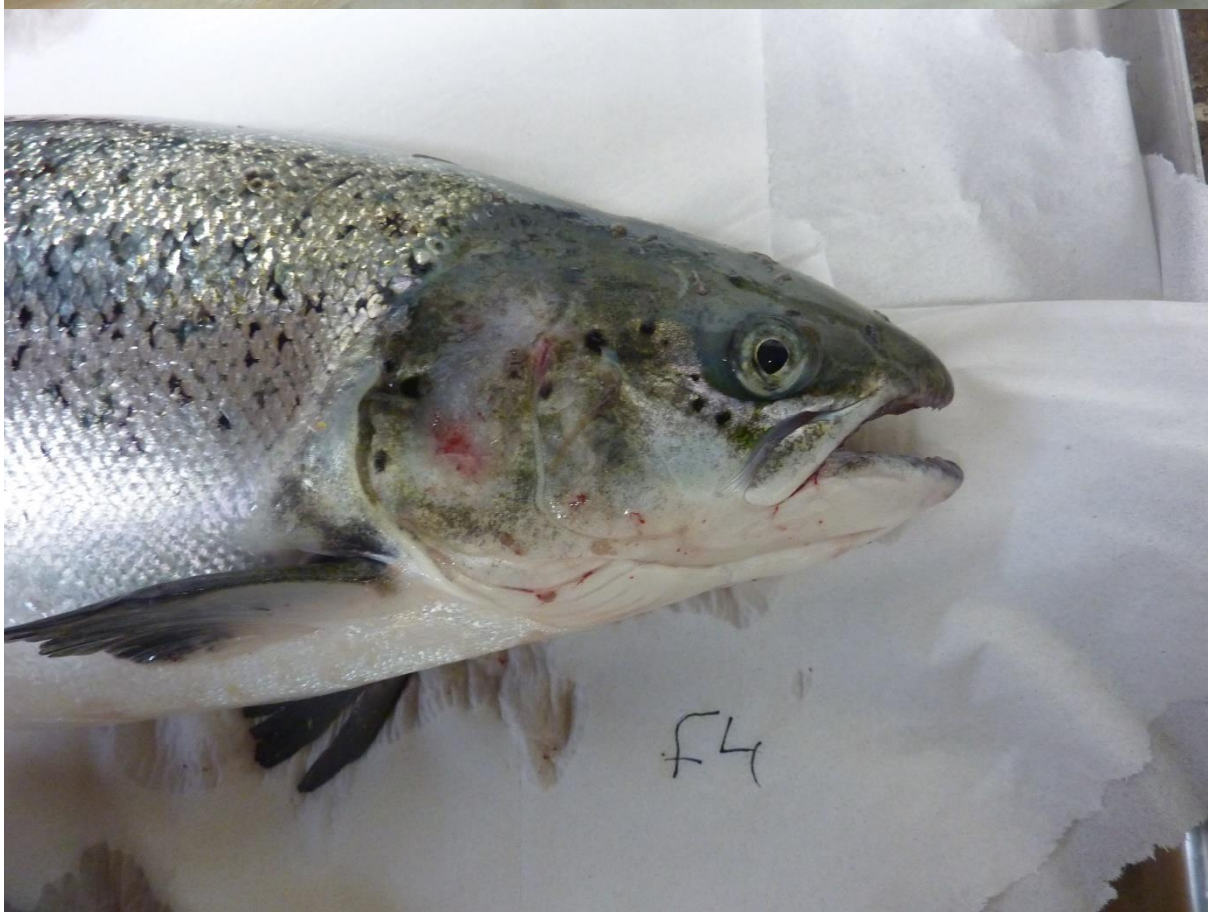

DB.
F3





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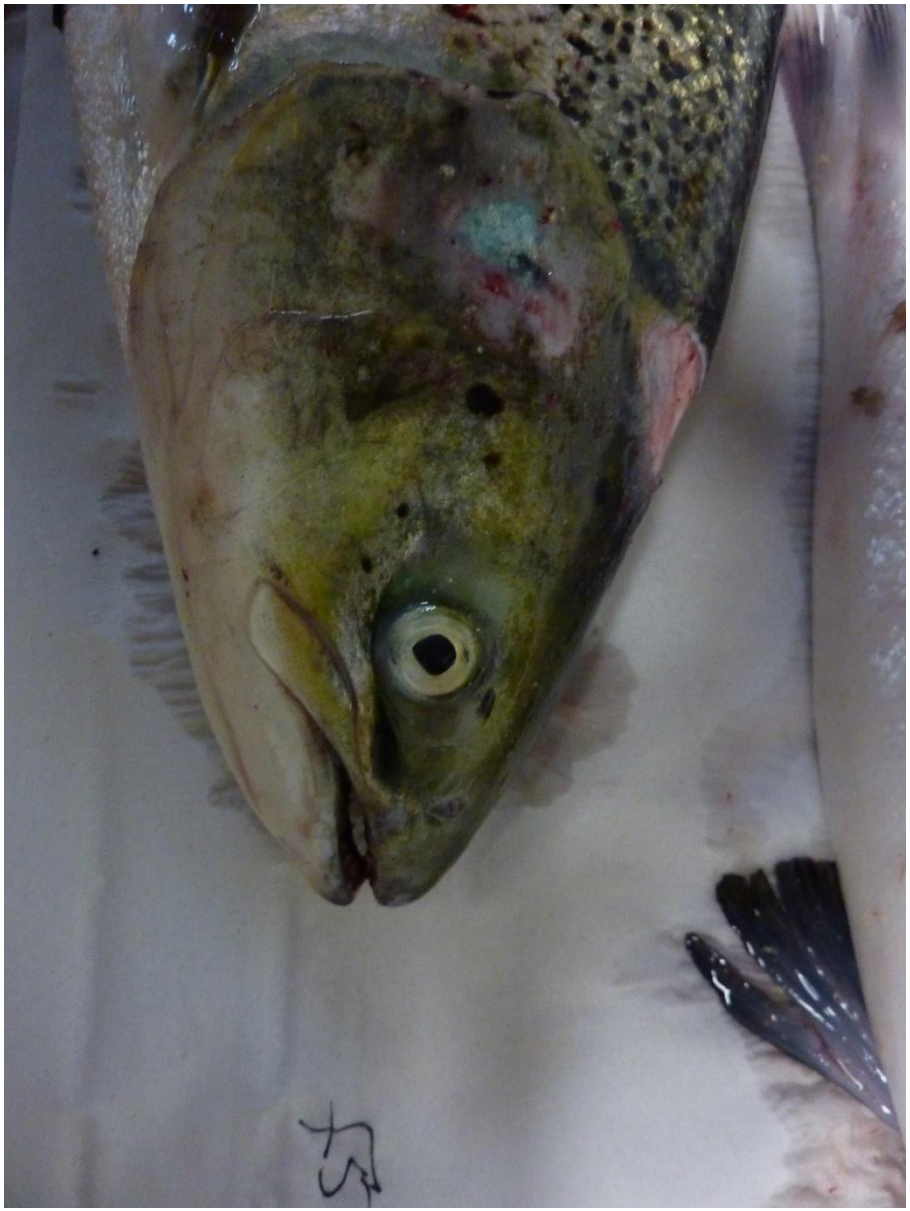

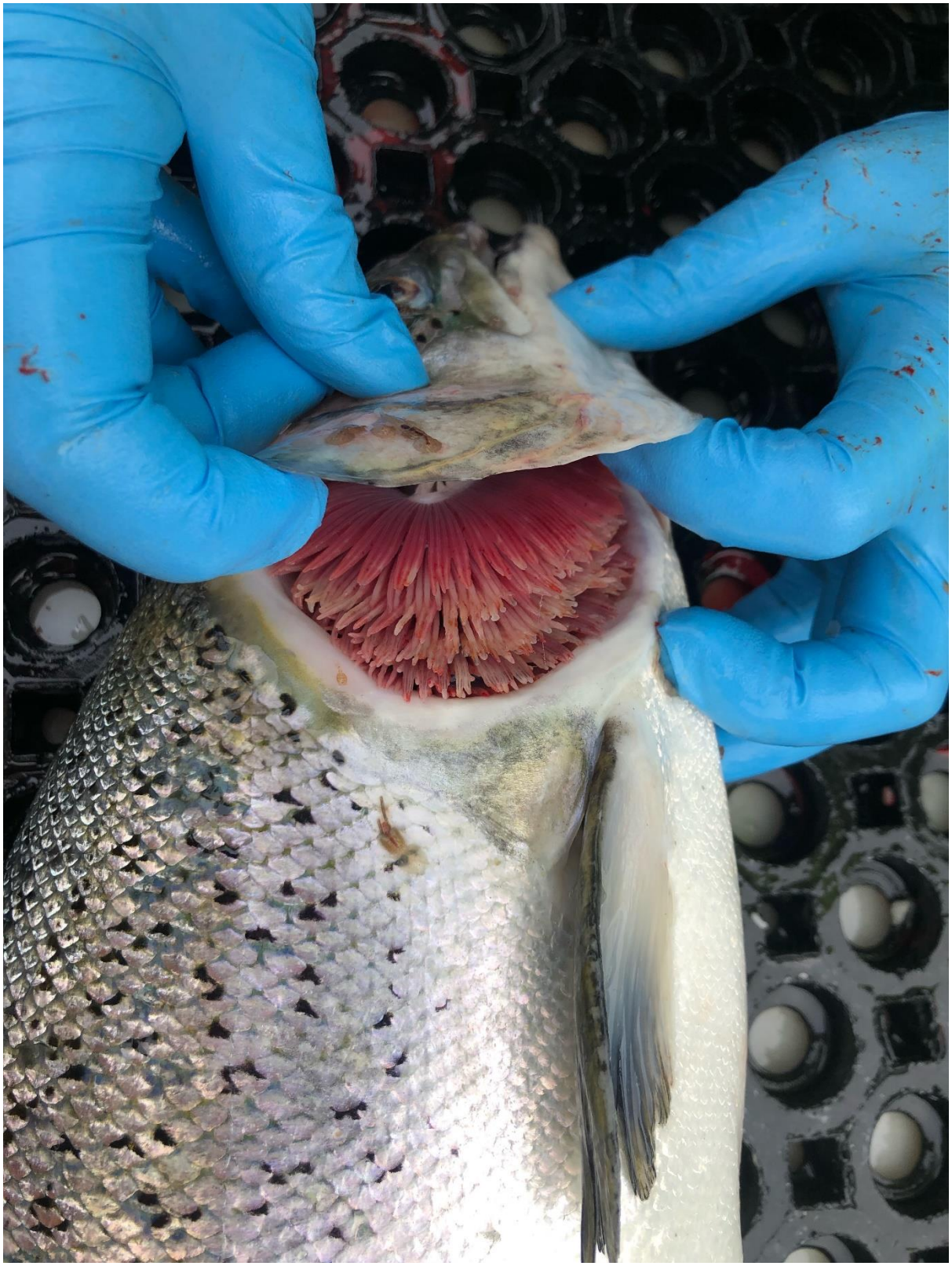

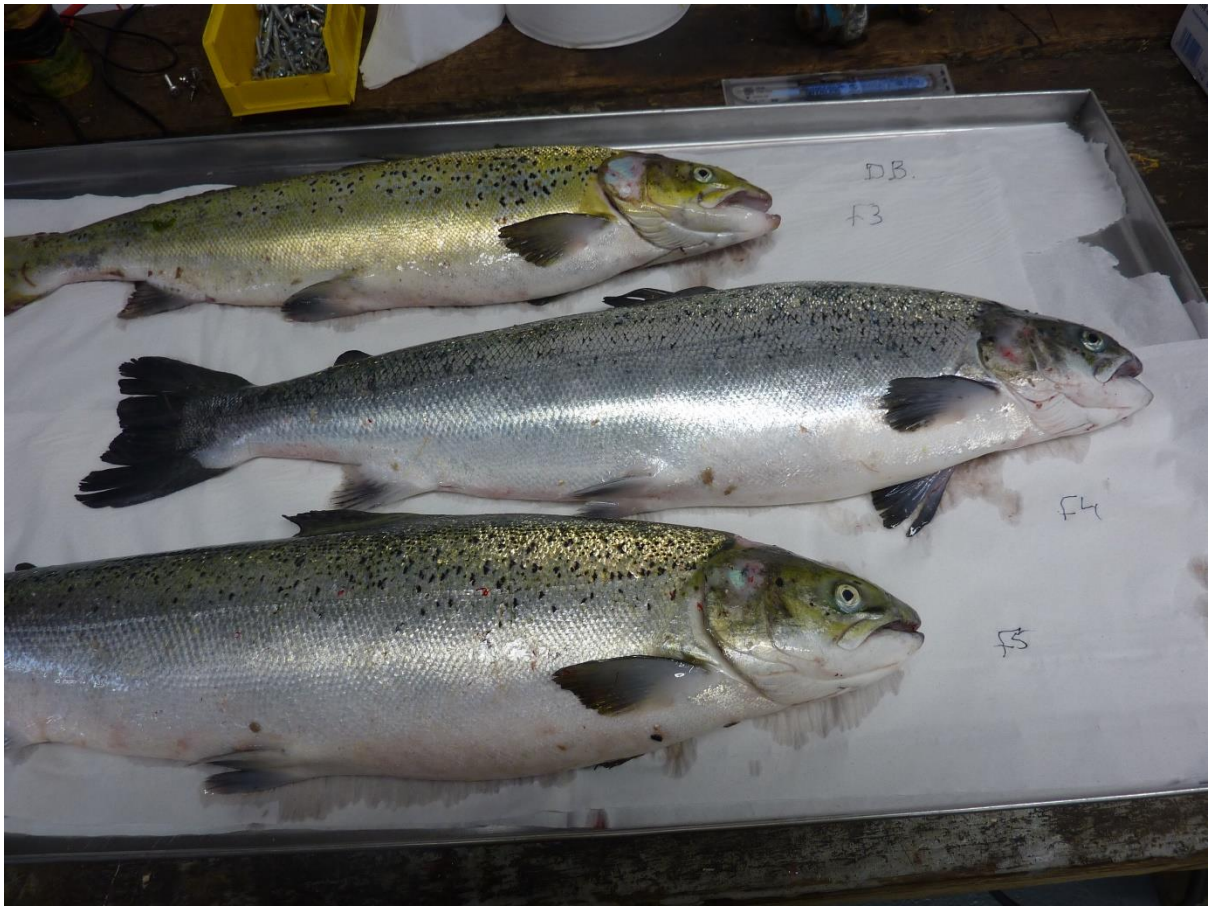
DB.
F3
F4
F5

Case No: 2021-0416 Date of visit: 14/10/2021

Time spent on site: 30 mins Main Inspector: [redacted]

Site No: FS0927 Site Name: Kyles Vuia
Business No: FB0169 Business Name: The Scottish Salmon Company

Case Types: 1 PSI 2 3 4 5 6

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

Observations: Region: WI Water type: S CoGP MA W-2

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

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

Additional Case Information:

PSI conducted following reports of high mortalities during August and September. Site was due to be visited in wk37 but could not be due to covid19 isolation of site staff.
Mortality rates low across site 0.04% in week 31, 0.23% in wk 32 up to 3.99% in wk 33 and 5% wk 34. FW treatment in wk 34. Mortality reduced following FW treatment but increased again following handling for sea lice treatment week36/37.
Routine visits of health biologist to sites every 2 weeks in Summer, regular haematocrit and gill swabs taken but quick onset of anaemia and some AGD which seems to have been exarcebated by a plankton/jellyfish environmental event. However, daily water samples haven't shown anything conclusive although water cloudy and full of sediment. Water quality is poor and low rainfall over summer months also. During this period aeration of water has been on 24/7.
Site was stocked in Dec 2020.
Sea lice levels - 28 12/07/2021 0.55
29 19/07/2021 1.86
30 26/07/2021 0.44
31 02/08/2021 0.70
32 09/08/2021 1.26
33 16/08/2021 No count on vet advice
34 23/08/2021 No count on vet advice
35 30/08/2021 1.53
36 06/09/2021 3.52
37 13/09/2021 1.21
38 20/09/2021 0.00
39 27/09/2021 No count on vet advice

Case No: 2021-0416 Site No: FS0927

Date of case: 14/10/2021 Inspector(s): [redacted]

Registration/Authorisation Details

Business/site contacts correct? (if no update site summary sheet) Y

Site Details

Total No facilities	14	No facilities stocked		14		
Species	SAL					
Age group	21s1					
No Fish	296,722					
Mean Fish Wt	2.7kg					
Next Fallow Date (Site)	End Sept 2022		Next Input Date (Site)		End Nov 2022	

Date of last inspection: (ECI or PSI) 01/06/2021

Mortality Information

1. Any recent increased or atypical mortalities? (last 4 weeks). Y

If yes, detail: see additional info

2. Any increased mortalities? (since last inspection.) Y

If yes, detail: see additional info

3. How are mortalities disposed of? Other (detail)

If other detail: Whole fish - whiteshore cockles

Treatments and Medicines

1. Any treatments? (since last inspection) Y

If yes, detail:

Other: Hydrolicer and FW

Health status and Results of Surveillance

1. Any disease on site? (since last inspection) Y

If yes, detail: Anaemia, AGD

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

3. Any significant results? Y

If yes, detail Anaemia, AGD

Sea lice

1. Has the site experienced sea lice problems in the previous 4 years? Y

If yes, detail: Periods over reporting levels historically on site and in FMA.

2. Have lice levels stayed below the suggested criteria for treatment in the CoGP since the last inspection? N

If no, detail: Below 0.5 until week28, increased after that - see additional info for full details

3. 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) since the last inspection? Y

4. If yes to 3, have these been reported to the Fish Health Inspectorate? If no, see comment. Y

5. Does the site have treatment discharge consents relevant to sea lice? Y

If yes, detail: Alphamax Slice

6. Have therapeutic treatments or the actions taken had a significant impact upon the lice levels recorded? Y

If no, detail:

7. Is there a signed documented farm management agreement or statement relevant to the site and CoGP Farm Management Area (or equivalent)? Y

8. Is the CoGP Farm Management Area (or equivalent) fallowed synchronously on a single year class basis? Y

Escapes/Containment

1. Any reported escapes? (check prior to phone call)	N
2. Any escapes? (since last inspection)	N
If yes, detail: (include date)	

Biosecurity Records

1. Any significant changes to your biosecurity procedures since previous visit?	N
If yes, detail:	

Case No: 2021-0416 Date of visit: 14/10/2021

Site No: FS0927 Inspector: [redacted]

Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2nd Insp

Report Summary			
Case Type	Date	Insp	2nd Insp
PSI	22/12/2021		

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NO	FB0169	**DATE OF VISIT**	14/10/2021
SITE NO	FS0927	**SITE NAME**	Kyles Vuia
CASE NO	20210416	**INSPECTOR**	[redacted]

Routine surveillance frequency assessment under the Aquatic Animal Health (Scotland) Regulations 2009

The above site was contacted in accordance with the Aquatic Animal Health (Scotland) Regulations 2009.

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

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

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

Signed: [redacted] Date: 22/12/2021

Senior Fish Health Inspector

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Website - https://www.gov.scot/policies/fish-health-inspectorate/

Case No: 2021-0417 Date of visit: 14/10/2021

Time spent on site: 20mins Main Inspector: [redacted]

Site No: FS1103 Site Name: Vuia Mor
Business No: FB0169 Business Name: The Scottish Salmon Company

Case Types: 1 PSI 2 3 4 5 6

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

Observations: Region: WI Water type: S CoGP MA W-2

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

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

Additional Case Information:

PSI conducted following reports of high morts on site.
Mortality was low and slowly increased wk31 0.3%, wk32 0.22%, wk33 0.73% then wk34 2.34%. Then a freshwater treatment wk 34 reduced to 0.75% in wk 35 and health improved until wk38 4.87% and wk 39 10.67%.
Routine visits of health biologist to sites every 2 weeks in Summer, regular haematocrit and gill swabs taken but quick onset of anaemia and some AGD which seems to have been exarcebated by a plankton/jellyfish environmental event. However, daily water samples haven't shown anything conclusive although water cloudy and full of sediment. Water quality is poor and low rainfall over summer months also. During this period aeration of water has been on 24/7. Site stocked Jan 2021.
Sea lice numbers were low, gradual increase week 27 to31 but below coGP then over 3 af week 32 and 33. FW treat week 34 and hydrolicer wk 35. Thermolicer wk 38. Hydrolicer planned wk42.
Sea lice counts - 26 28/06/2021 0.03
27 05/07/2021 0.28
28 12/07/2021 0.20
29 19/07/2021 0.19
30 26/07/2021 0.67
31 02/08/2021 0.60
32 09/08/2021 3.06
33 16/08/2021 2.37
34 23/08/2021 No count on vet advice
35 30/08/2021 1.08
36 06/09/2021 2.54
37 13/09/2021 3.34
38 20/09/2021 6.83
39 27/09/2021 1.29

Case No: 2021-0417 Site No: FS1103

Date of case: 14/10/2021 Inspector(s): [redacted]

Registration/Authorisation Details

Business/site contacts correct? (if no update site summary sheet) Y

Site Details

Total No facilities 14 No facilities stocked 12

Species	SAL					
Age group	21s1					
No Fish	362,563					
Mean Fish Wt	1.9kg					

Next Fallow Date (Site) End Sept 2022 Next Input Date (Site) Nov 2022

Date of last inspection: (ECI or PSI) 22/06/2021

Mortality Information

1. Any recent increased or atypical mortalities? (last 4 weeks). Y

If yes, detail: see additional information

2. Any increased mortalities? (since last inspection.) Y

If yes, detail: see additional information

3. How are mortalities disposed of? Other (detail)

If other detail: Whole fish - whiteshore cockles

Treatments and Medicines

1. Any treatments? (since last inspection) Y

If yes, detail:					
Other:	FW, hydrolicer, thermolicer				

Health status and Results of Surveillance

1. Any disease on site? (since last inspection) Y

If yes, detail: Anaemia, AGD, PGD

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

3. Any significant results? Y

If yes, detail Anaemia, AGD, PGD

Sea lice

1. Has the site experienced sea lice problems in the previous 4 years? Y

If yes, detail:

2. Have lice levels stayed below the suggested criteria for treatment in the CoGP since the last inspection? N

If no, detail: Below CoGP until wk32 then over 3af

3. 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) since the last inspection? Y

4. If yes to 3, have these been reported to the Fish Health Inspectorate? If no, see comment. Y

5. Does the site have treatment discharge consents relevant to sea lice? Y

If yes, detail:	Slice	Salmosan	Alphamax	

6. Have therapeutic treatments or the actions taken had a significant impact upon the lice levels recorded? Y

If no, detail:

7. Is there a signed documented farm management agreement or statement relevant to the site and CoGP Farm Management Area (or equivalent)? Y

8. Is the CoGP Farm Management Area (or equivalent) fallowed synchronously on a single year class basis? Y

Escapes/Containment

1. Any reported escapes? (check prior to phone call)	N
2. Any escapes? (since last inspection)	N
If yes, detail: (include date)	

Biosecurity Records

1. Any significant changes to your biosecurity procedures since previous visit?	N
If yes, detail:	

Case No: 2021-0417 Date of visit: 14/10/2021

Site No: FS1103 Inspector: [redacted]

Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2nd Insp

Report Summary			
Case Type	Date	Insp	2nd Insp
PSI	22/12/2021		

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NO	FB0169	**DATE OF VISIT**	14/10/2021
SITE NO	FS1103	**SITE NAME**	Vuia Mor
CASE NO	20210417	**INSPECTOR**	[redacted]

Routine surveillance frequency assessment under the Aquatic Animal Health (Scotland) Regulations 2009

The above site was contacted in accordance with the Aquatic Animal Health (Scotland) Regulations 2009.

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

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

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

Signed: [redacted] Date: 22/12/2021

Senior Fish Health Inspector

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Website - https://www.gov.scot/policies/fish-health-inspectorate/

Case No: 2021-0418 Date of visit: 14/10/2021

Time spent on site: 20 mins Main Inspector: [redacted]

Site No: FS0242 Site Name: Gravir
Business No: FB0169 Business Name: The Scottish Salmon Company

Case Types: 1 PSI 2 3 4 5 6

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

Observations: Region: WI Water type: S CoGP MA: W-4

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

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

Additional Case Information:

PSI following up high mortalities on site. Treatments required for sea lice and gill health is poor following suspected environmental event and fish are not coping well with handling.

Morts were below 0.2% until wk 33 when reached 0.6% and up to 1.34% in wk 38 and 3.31% in week 39.
One stock in 2 cages appeared to be effected worse than others and are now harvested out. Mortality rate for current week to date is 0.25% and another FW treatment is planned in the next few weeks.
Lice numbers have been over CoGP but under 2af until wk 27 when reached 4af - treated with hydrolicer and numbers dropped back below 2af until wk 32 - detailed below:
32 09/08/2021 5.49
33 16/08/2021 No count on vet advice
34 23/08/2021 3.98
35 30/08/2021 3.66
36 06/09/2021 0.77
37 13/09/2021 2.12
38 20/09/2021 0.98
39 27/09/2021 1.18

FW and Salmosan treatment in week 33, Hydrolicer wk34 and 38/39.

Case No: 2021-0418 Site No: FS0242

Date of case: 14/10/2021 Inspector(s): [redacted]

Registration/Authorisation Details

Business/site contacts correct? (if no update site summary sheet) Y

Site Details

Total No facilities 12 No facilities stocked 10

Species	sal					
Age group	20 s1					
No Fish	686,873					
Mean Fish Wt	3.2kg					

Next Fallow Date (Site) June 2022 Next Input Date (Site) Aug/Sept 2022

Date of last inspection: (ECI or PSI) 01/06/2021

Mortality Information

1. Any recent increased or atypical mortalities? (last 4 weeks). Y

If yes, detail: see additonal info

2. Any increased mortalities? (since last inspection.) Y

If yes, detail: see additional info

3. How are mortalities disposed of? Other (detail)

If other detail: Whole fish - whiteshore cockles

Treatments and Medicines

1. Any treatments? (since last inspection) Y

If yes, detail: Salmosan

Other: FW and Hydrolicer

Health status and Results of Surveillance

1. Any disease on site? (since last inspection) Y

If yes, detail: PGD

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

3. Any significant results? Y

If yes, detail PGD

Sea lice

1. Has the site experienced sea lice problems in the previous 4 years? Y

If yes, detail: High lice levels in 2018, but

2. Have lice levels stayed below the suggested criteria for treatment in the CoGP since the last inspection? N

If no, detail:

3. 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) since the last inspection? Y

4. If yes to 3, have these been reported to the Fish Health Inspectorate? If no, see comment. Y

5. Does the site have treatment discharge consents relevant to sea lice? Y

If yes, detail: Slice Salmosan Alphamax

6. Have therapeutic treatments or the actions taken had a significant impact upon the lice levels recorded? Y

If no, detail:

7. Is there a signed documented farm management agreement or statement relevant to the site and CoGP Farm Management Area (or equivalent)? Y

8. Is the CoGP Farm Management Area (or equivalent) fallowed synchronously on a single year class basis? Y

Escapes/Containment

1. Any reported escapes? (check prior to phone call)	N
2. Any escapes? (since last inspection)	N
If yes, detail: (include date)	

Biosecurity Records

1. Any significant changes to your biosecurity procedures since previous visit?	N
If yes, detail:	

Case No: 2021-0418 Date of visit: 14/10/2021

Site No: FS0242 Inspector: [redacted]

Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2nd Insp

Report Summary			
Case Type	Date	Insp	2nd Insp
PSI	22/12/2021		

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NO	FB0169	**DATE OF VISIT**	14/10/2021
SITE NO	FS0242	**SITE NAME**	Gravir
CASE NO	20210418	**INSPECTOR**	[redacted]

Routine surveillance frequency assessment under the Aquatic Animal Health (Scotland) Regulations 2009

The above site was contacted in accordance with the Aquatic Animal Health (Scotland) Regulations 2009.

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

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

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

Signed: [redacted] Date: 22/12/2021

Senior Fish Health Inspector

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Website - https://www.gov.scot/policies/fish-health-inspectorate/

Case No: 2021-0419 Date of visit: 14/10/2021

Time spent on site: 20 mins Main Inspector: [redacted]

Site No: fs0839 Site Name: Geasgill
Business No: FB0169 Business Name: The Scottish Salmon Company

Case Types: 1 PSI 2 3 4 5 6

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

Observations: Region: ST Water type: S CoGP MA M-37

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

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

Additional Case Information:

PSI conducted follow reports of increasing mortality on site. Low dissolved oxygen in week 34/25 affected gills, and incidence of AGD increased in routine health samples taken and morts went over 1% in weeks 37 and 38 and over 4% in week 39. This week so far 0.78%. Freshwater treatment undertaken wk 40/41. Sea lice levels generally below CoGP but over 2 in week 38. Lot of moribunds on site affecting average counts and being removed where possible. Moribund fish generally uplifted by Billy Bowie to Dundas, but sometimes also go to Barkip or Energen - Biogas.

Case No: 2021-0419 Site No: fs0839

Date of case: 14/10/2021 Inspector(s): [redacted]

Registration/Authorisation Details

Business/site contacts correct? (if no update site summary sheet) Y

Site Details

Total No facilities	14	No facilities stocked		14		
Species	SAL					
Age group	20 s0					
No Fish	663,549					
Mean Fish Wt	2.7kg					
Next Fallow Date (Site)	end june 2022		Next Input Date (Site)		End Sept 2022	

Date of last inspection: (ECI or PSI) 16/06/2021

Mortality Information

1. Any recent increased or atypical mortalities? (last 4 weeks). Y

If yes, detail: see additional info

2. Any increased mortalities? (since last inspection.) Y

If yes, detail: see additional info

3. How are mortalities disposed of? Whole fish - Dundas Chemicals

If other detail:

Treatments and Medicines

1. Any treatments? (since last inspection) Y

If yes, detail: Salmosan

Other:

Health status and Results of Surveillance

1. Any disease on site? (since last inspection) Y

If yes, detail: AGD, PGD

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

3. Any significant results? Y

If yes, detail AGD, PGD

Sea lice

1. Has the site experienced sea lice problems in the previous 4 years? Y

If yes, detail: numbers over/around reporting level

2. Have lice levels stayed below the suggested criteria for treatment in the CoGP since the last inspection? N

If no, detail: Mostly below CoGP but over in week 36 and week 38

3. 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) since the last inspection? Y

4. If yes to 3, have these been reported to the Fish Health Inspectorate? If no, see comment. Y

5. Does the site have treatment discharge consents relevant to sea lice? Y

If yes, detail: Salmosan Alphamax Slice

6. Have therapeutic treatments or the actions taken had a significant impact upon the lice levels recorded? Y

If no, detail:

7. Is there a signed documented farm management agreement or statement relevant to the site and CoGP Farm Management Area (or equivalent)? Y

8. Is the CoGP Farm Management Area (or equivalent) fallowed synchronously on a single year class basis? Y

Escapes/Containment

1. Any reported escapes? (check prior to phone call)	N
2. Any escapes? (since last inspection)	N
If yes, detail: (include date)	

Biosecurity Records

1. Any significant changes to your biosecurity procedures since previous visit?	N
If yes, detail:	

Case No: 2021-0419 Date of visit: 14/10/2021

Site No: fs0839 Inspector: [redacted]

Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2nd Insp

Report Summary			
Case Type	Date	Insp	2nd Insp
PSI	22/12/2021		

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NO	FB0169	**DATE OF VISIT**	14/10/2021
SITE NO	FS0839	**SITE NAME**	Geasgill
CASE NO	20210419	**INSPECTOR**	[redacted]

Routine surveillance frequency assessment under the Aquatic Animal Health (Scotland) Regulations 2009

The above site was contacted in accordance with the Aquatic Animal Health (Scotland) Regulations 2009.

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

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

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

Signed: [redacted] Date: 22/12/2021

Senior Fish Health Inspector

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Website - https://www.gov.scot/policies/fish-health-inspectorate/

Case No: 2021-0420 Date of visit: 28/10/2021

Time spent on site: 4.5 hours Main Inspector: [redacted]

Site No: FS0606 Site Name: Westmill Fish Farm
Business No: FB0001 Business Name: Cloan Hatcheries Ltd

Case Types: 1 ECI 2 CNA 3 VMD 4 5 6

Water Temp (°C): 10.6 Thermometer No: T146 FHI 045 completed

Observations: Region: TA Water type: F CoGP MA

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

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

Additional Case Information:

Morts ensiled and removed by Hazco last uplift 2019, moving to incineration soon, incinerator on site.
Morts low, some predation from otters.
Fish on site all in good condition from inspection a few with rubbed heads in one pond following grading, but not moribund or lethargic.
Now operating with reduced water abstraction on SEPA licence.
Florocol in Jun2020, suspected RTFS in 2 batches
Site visited annually from FVG, delayed during covid - but due next month. Histology samples were taken on newest input prior to transfer - no significant results, fish transported to farm. Pre transfer health checks always conducted.
Automatic leaf clearer on intake screen operated continuously at this time of year. Pond/raceway screens are cleared regularly as required, through the night also.
Following period of reduced trade at the start of the covid pandemic in Spring 2020, the site has been very busy with a high demand from customers.

Inspection, sampling and paperwork conducted by [redacted] observed by [redacted] for internal audit.

Case No: 2021-0420 Site No: FS0606

Date of Visit: 28/10/2021 Inspector(s): [redacted]

Registration/Authorisation Details

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

Site Details (include cleaner fish for all sections)

Total No facilities		40	Facilities stocked		27	No facilities inspected		40
Species	tro	tro	rtr (blue)	rtr	rtr	rtr	rtr	
Age group	MVG	MVG	MVG	MVG	MVG	MVG	MVG	
No Fish	12k	2k	1k	178k	76k	1,400	300	
Mean Fish Wt	450g	900g	800g	11g-140g	500g-1kg	2.35kg	3.1kg	
Next Fallow Date (Site)		None		Next Input Date (Site)		March 2022		
Recent (last 4 wks) disease problems?				N	Any escapes (since last visit)?			N
If yes, detail:								

Movement Records

1. Movement records available for inspection?	Y
2. Date of last inspection:	01/12/2019
3. Are records complete and correctly entered?	Y
4. Are movement records available for dead fish and waste?	Y
5. Are records complete and correctly entered?	Y
6. Are health certificates for introductions (outwith GB) available?	N/A

Transport Records

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

Mortality Records

1. Mortality records available for inspection?	Y
2. How are mortalities disposed of?	Ensiled - on site
If other detail:	
3. Mortality records complete and correctly entered?	Y
4. Recent mortality (last 4 wks):	2-98fish/pond per month/ mostly single fgures /week less than 1% per month
5. Evidence of recent increased/atypical mortalities?	N
If yes, facility nos/no mortality per facility/no stock per facility/reason:	
6. Any other peaks in mortality during period checked?	N
If yes, detail:	
7. Have increased (unexplained) mortalities been reported to vet or FHI?	N/A
If yes, detail action:	
8. Have 'mortality events' been reported to FHI? If no, enter details on mortality events sheet.	N/A

Treatments and Medicines Records

1. Recent treatments (see comment)?	N
If yes, detail:	
If other, detail:	
2. Medicines records available for inspection?	Y
3. Are records complete and correctly entered?	Y
4. Are fish in a withdrawal period?	N
5. If yes, what treatment(s)?	
If other, detail:	
6. Are medicines stored appropriately?	Y

Biosecurity Records

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

Results of Surveillance

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

Records checked between:	Dec 2019 - 28/10/21

Case no:	2021-0420	Site No:	FS0606	Date of visit/ Sampling:	28/10/2021	28/							
Priority samples:	VI		BA		PA		MG		HI				
Time sampling starts/ends:	13:00:00	13:15:00	Inspector:		VMD No.	1							
Environmental conditions:	1	Wet	2	Cloudy	3		4		5				
Summary samples	HIST		BA		MG		VI		PA		Total Samples		

Add Fish/Pools - click

	Pool/Fish No												
	Fish nos	F1											
	Pool Group												
Stock Details	Species	RTR											
	Average weight	150g											
	Sex	N/A											
	Water Type	FW											
	Stock Origin	Costa Springs Yorkshire											
	Facility No	P1											

10/2021 Additional Sample Information:

0 Total Tests assigned 0

Case Number:	2021-0420		Site No:	FS0606	Insp:	
Date of Visit	28/10/2021					

		No of movements/supp./dest.				Score
Live fish movements		**0**	**1-5**	**6-10**	**>10**	
Movements on (from out with GB) of susceptible species	Frequency of movements on from equivalent MS	0	5	10	14	0
	Frequency of movements on from equivalent zone or compartment including third country	0	9	18	26	
	Number of suppliers	0	5	10	14	
Movements off	Frequency of movements off	0	3	6	10	10
	Number of destinations	0	3	6	10	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		1
	Farm is on-line or in a coastal zone with category III farms upstream or within 1 tidal excursion	1	3	6		
	Farm is on-line or in a coastal zone with category V farms upstream or within 1 tidal excursion	1	4	8		

Management practices		None	Secure	Unsecure	
Water contacts with processors	Any processing plant discharging into adjacent waters	0	1	2	0

On farm processing within the rules of the directive	No on farm processing	0	0
	Processing own fish (re-cycling risk)	1	
	Processing fish from MS of equivalent status	2	
	Processing fish from zone or compartment of equivalent status	4	
	Processing fish from Category III farm	8	
	Processing fish from Category V farm	10	
Disposal of fish and fish by-products	Site's own waste only processed.	0	0
	Common processes with other farms	3	
	Collection point for waste from other farms	5	
Use of unpasteurised feeds	No feeding of unpasteurised feed	0	0
	Feeding unpasteurised feed	5	

Biosecurity	**Number of sites**	**1**	**2 or 3**	**≥ 4**	
Contacts with other sites	Sites operating from single shorebase	0	1	2	0
	Sites sharing staff and equipment	0	1	2	

Disinfection of equipment between sites, use of footbaths etc	Yes	0	0
	No	1	
CoGP/Regulator			
Practices in accordance with regulator or industry code of practice	Yes	0	0
	No	3	
Platform access to cages	Yes	0	0
	No	2	

Total	**21**
Rank	**MEDIUM**

Case No: 2021-0420 Site No: FS0606

Date of visit: 28/10/2021 Inspector(s): [redacted]

Point of compliance	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary
ENHANCED CONTAINMENT INSPECTION (FRESHWATER)				
a. Enquiry relating to i) escape incidents and ii) contingency procedures				
1.1. Have escape incidents or events[1] been experienced on or in the vicinity of the site since the last MSS inspection?		N		
If yes answer 1.2-1.8:				
1.2. Have appropriate reports been made to Scottish Government within 24 hours of discovery?	High		AAAH 31D,E	
1.3. Have these been reported to the SSPO[2] and, where in existence, the local DSFB and fisheries trust?	Medium		CoGP 2.4.31, 3.4.39	
1.4. Were methods (if any) used to recover escapees?				
If yes give detail				
1.5 Was the decision to attempt to recapture and the method employed agreed with the local DSFB and FT	Low		CoGP 2.4.32, 3.4.40	
1.6. Was permission sought from Marine Scotland prior to recapture?	Medium		CoGP 2.4.32, 3.4.40	
1.7 Were the gill nets deployed of appropriate mesh size with regard the size of the escaped fish?	Low		CoGP 2.4.32, 3.4.40	
1.8. In light of the escape event, has appropriate action been taken to prevent and minimise the risk of further escapes?	High			
1.9. Is there a site specific contingency plan in response to failures in containment, aimed at preventing escapes and recovering escaped fish?	High	Y	CoGP 2.4.28, 3.4.36 SSI, 2,9	
b(i). Inspection of records relating to equipment, facilities and the site				
General records				
2.1 With regard to each facility, net, screen and mooring at each site, a record should be maintained of:-			SSI 2,1	
		Facilities	Moorings	Nets
a) The name of the manufacturer	Low	Y	N/A	N/A
b) Any special adaptations	Low	Y	N/A	N/A
c) The name of the supplier	Low	Y	N/A	N/A
d) The date of purchase	Low	Y	N/A	N/A
e) Each inspection including				
i) the name of the person conducting the inspection	Low	Y	N/A	N/A
ii) the date of each inspection	Medium	Y	N/A	N/A
iii) the place of each inspection	Low	Y	N/A	N/A
iv) the outcome of each inspection	High	Y	N/A	N/A

With regard to screens

With regard to screens

Point of compliance	Risk level	Satisfactory?	Requirement		Comments and advice given or action taken if necessary
f) the date and result of each repair, equipment test and antifouling treatment carried out	High	Y	N/A	N/A	
2.2. In relation to each net a record of:					
i) The mesh size	Medium	N/A	SSI, 2,2		
ii) The code which appears on the identification tag	Medium	N/A			
iii) The place of use, storage and disposal	Medium	N/A			
iv) The depth of water between the bottom of the net and the seabed as measured at the mean low water spring	Low	N/A			
2.3. In relation to each facility a record of:					
i) The date of construction	Low	Y	SSI, 2,3		Farm ponds in place since 1970's, raceway walls doubled in thickness in 2006 - concrete.
ii) The material used in construction	Low	Y			
iii) Its dimensions	Low	Y			
2.4. In relation to each mooring a record of-			SSI, 2,4		
i) The date of installation	Low	N/A			
ii) The design and weight of the anchors	Low	N/A			
iii) The length of the mooring ropes or chains	Low	N/A			
2.5. A record of any navigation markers deployed at each site at which fish are farmed	Low	N/A	SSI, 2,5		
2.6 In respect of sites at which fish are farmed in inland waters[3]			SSI, 2,6		
a) The type, method of and date of construction of any flood prevention or flood defence measures in place	Low	N/A			Lade around farm previous to farms existence, sluice gates at river ericht can reduce flows - new weir at inlet to lade
b) The date of and results of any tests conducted on any such measures	Low	N/A			Flood 2013 in river but measures in place on farm were sufficient to prevent any loss - 1 in 100yr event
c) The date of any incident where the site was flood	Low	N/A			
d) The water course height during any such flood incident	Low	N/A			
2.7 A record of-			SSI, 2,7		
a) The date of any severe weather event which caused damage to any facility, net or mooring	Medium	N/A	SSI, 2,11 (a)		
b) Any action taken to rectify any such damage	High	N/A	SSI, 2,11 (b)		
Pen and mooring systems					
2.8 Can the site demonstrate evidence that pens and moorings are designed, manufactured and installed suitable for purpose at the location of the site?	High	N/A	CoGP 3.4.11		
2.9 Are pen systems inspected and approved by suitably qualified / experienced person(s)?	High	N/A	CoGP 3.4.12		
2.10 Can the site demonstrate evidence that all nets have been designed and manufactured under the control of a Quality Management System to ensure they provide containment for the whole of their working life?	High	N/A	CoGP 3.4.13		
2.11 Are all screens inspected daily and relevant action taken? Are records maintained of inspection frequency and the outcomes?	High	Y	CoGP 2.4.17, 2.4.18		
2.12 Are screens constructed from a suitably strong and robust material, and therefore fit for purpose?	High	Y	CoGP 2.4.19		

Point of compliance	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary
2.13 Can the site demonstrate awareness of the minimum net strengths to be used at all times?	High	N/A	CoGP 3.4.14	
2.14 Does the site have a documented net replacement policy based on meeting the minimum strength requirements?	High	N/A	CoGP 3.4.15	
2.15 Does the site use nylon nets older than 5 years?	High	N/A	CoGP 3.4.16	
2.16 Can site managers demonstrate awareness of the minimum fish size supplied where new stock is introduced?	High	N/A	CoGP 3.4.18	
2.17 Have nets been treated with UV inhibitor?	Low	N/A	CoGP 3.4.19	
2.18 Are nets stored away from direct sunlight and vermin when not in use?	Low	N/A	CoGP 3.4.20, 3.4.21	
2.19 Can the site demonstrate evidence of nets being inspected and strength tested after each cycle by a competent person?	High	N/A	CoGP 3.4.22	
2.20 Is in accordance with a detailed procedure based on manufacturer's advise and using a documented quality control system?	High	N/A	CoGP 3.4.22	
2.21 Do the net inspections include representative sections from:			CoGP 3.4.23	
a) net base	High	N/A		
b) side wall	High	N/A		
c) above the waterline	High	N/A		
2.22 Are nets visually inspected on a daily basis?	High	N/A	CoGP 3.4.24	
2.23 Are additional inspections undertaken following adverse weather where required?	High	N/A	CoGP 3.4.25	
b(ii). Inspection of records relating to training				
3.1 Are training programmes and plans relevant to the various onsite activities documented?	High	Y	CoGP 7.1.8	
3.2 Are all staff fully aware of the importance of containment and best practice?	High	Y	CoGP 7.4.7	
3.3 Is there a satisfactory record of all training and qualifications for each person working in the site in relation to any helicopter operations?	High	N/A	CoGP 2.4.27, 3.4.33	
3.4 Is there a satisfactory record of all training and qualifications for each person working at the site in relation to any boat operations?	High	N/A	CoGP 3.4.35 SSI 2,6,a	
3.5 With respect to any transfer of or handling of fish is there a record of all training of each person working on site in relation to containment and prevention of escape of fish, and recovery of escaped fish?	High	Y	SSI 2,7,a ; CoGP 2.4.29, 3.4.37	
b(iii). Inspection of records relating to procedures and risk assessments				

Point of compliance	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary
4.1 Are procedures which could increase the risk of fish escaping considered to be carefully planned and supervised to minimise risk?	High	Y	CoGP 2.4.6, 3.4.8, 2.4.7, 3.4.9	
4.2 Before procedures are conducted on site, are the following in place:			CoGP 2.4.23, 3.4.27 SSI 2,7, b SSI 2, 8, c	
a) a documented risk assessments	High	Y		
b) standard operating procedures	High	Y		
c) contingency plan	High	Y		
4.3 Is the integrity of all handling equipment checked, including pipelines, pumps, transport tanks, graders, counters and vaccination stations, before fish are handled?	High	Y	CoGP 2.4.24, 3.4.28	
4.4 Do these checks include the suitability of the above equipment for use during adverse weather conditions where appropriate?	High	Y	CoGP 2.4.25, 3.4.29	
4.5 Are mitigation measures such as safety nets, security devices, or bunding used at potential risk points, such as pipe connections?	High	Y	CoGP 2.4.26, 3.4.30	
4.6 In relation to any boat operations at each site at which fish are farmed is there a record of				
-The type and size of each boat used for operations on the site	Low	N/A	SSI 2,6,b	
- The type and size of any propeller guard fitted to each boat used on the site	Low	N/A	SSI 2,6,c	
4.7 Does the site suffer from regular or heavy predation?		Y		
4.8 Are there records of site specific risk assessments ascertaining the risk and impact of predator attack?	Medium	Y	2.4.7, 3.4.9	Predation by otters at certain times of year can be fairly regular. Anti predator measures in place - fencing, predator nets overhead. Daily checks and regular maintenance of fencing/nets to deter otters and heron.
4.10 A record of any anti-predator measures undertaken at each site at which fish are farmed including			SSI, 2,8,a	
-The type and location of each net, fence and scarer deployed	Medium	Y		
- The use of lethal means by any person involved in operations on the site	Low	N/A	SSI, 2,8,b	
4.11 Where predator nets are deployed is this done in such a manner as to reduce the likelihood of access by predators? For example, see requirements of Annex 7.	Low	N/A	3.5.34-37 2.5.34-37	
c. Inspection of site and site equipment				
5.1 Are there any obvious containment issues on the site?	High	N		
5.2 Can the site demonstrate evidence that the site is not located within an area likely to be affected by flood, or suitable flood defences in place?	High	Y	CoGP 2.4.9, 2.4.10, 2.4.11	Double screened at inlet, automatic screen clearer on 24/7 at this time of year to clear leaves. All ponds screened also, leaves cleared as required, multiple times a day when leaf fall at highest. Through the night too. Alarms to prevent blockages.
5.3 Does the site have effective measures in place to prevent fish from jumping out of holding facilities into surface waters or natural water courses?	High	Y	CoGP 2.4.12	

Point of compliance	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary
5.4 Is the site inflow system designed to prevent any upstream escape of farm stock?	High	Y	CoGP 2.4.14	
5.5 Are the screen sizes capable of containing the entire range of fish sizes within the unit in every instance?	High	Y	CoGP 2.4.15	
5.6 In the case of a land-based aquaculture system, are there two screens incorporated into the outflow system of a suitable size to prevent the passage of fish in all potential water conditions?	High	Y	CoGP 2.4.20	
5.7 Does the net mesh size contain the entire range of fish sizes in every instance of the species involved?	High	N/A	CoGP 3.4.17	
5.8 Are boat operations conducted in a manner which avoids damage to nets and pens?	High	N/A	CoGP 3.4.34	
d. Inspection of site specific procedures				
6.1 Are nets visually inspected on a daily basis including prior to and during the stocking, moving or crowding of fish?	High	N/A	CoGP 3.4.24	
6.2 If helicopter transfer of fish is conducted are receiving pen(s) properly prepared:-				
a) pens should be marked with buoys clearly visible from the air	High	N/A	CoGP 3.4.31	
b) radio contact between farm staff and helicopter crew should be maintained or where this is not possible, pens receiving fish should be manned	High	N/A	CoGP 3.4.32	

Additional actions	Powers	Comments and advice given or action taken if necessary
e) Collection of samples If necessary collect samples. Indicate if samples have been taken and detail what those samples are and the purpose of their collection	Power granted under the Act – section 5 (3) (a)	
h) Enforcement Notice. If an enforcement notice has been issued then maintain a copy / duplicate and record detail Guidance on completing the Enforcement Notice	Power granted under the Act – Section 6 (2)	

[1] An 'escape event' can be defined as any circumstances on or in the vicinity of a fish farm which are believed to have caused an escape, or which may have given rise to a significant risk of an escape of fish.

[2] FHI interpretation – Informing the SSPO is only a requirement where the site belongs to an Authorised Production Business which is signed up to the CoGP.

[3] being waters which do not form part of the sea or any creek, bay or estuary or of any river as far as far as the tide flows

Case No: 2021-0420 Date of visit: 28/10/2021

Site No: FS0606 Inspector: [redacted]

Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2nd Insp

Report Summary			
Case Type	Date	Insp	2nd Insp
ECI VMD	13/12/2021		
CNA	17/12/2021		

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NO	FB0001	**DATE OF VISIT**	28/10/2021
SITE NO	FS0606	**SITE NAME**	Westmill Fish Farm
CASE NO	20210420	**INSPECTOR**	[redacted]

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

The above site was inspected, in accordance with the Aquatic Animal Health (Scotland) Regulations 2009.

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:

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

Mortality records were inspected and found to be adequately maintained.

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

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

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

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

Medicine records were inspected and found to be adequately maintained.

Marine Laboratory, 375 Victoria Road, Aberdeen, AB11 9DB
Tel – 0131 244 3498 Email – ms.fishhealth@gov.scot
Website - https://www.gov.scot/policies/fish-health-inspectorate/

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 with respect to section 5 regarding containment and escapes.

An enhanced containment inspection was conducted. A separate report will be issued in due course.

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

Signed: [redacted] Date: 13/12/2021

Senior 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/

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Tel – 0131 244 3498 Email – ms.fishhealth@gov.scot
Website - https://www.gov.scot/policies/fish-health-inspectorate/

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NO	FB0001	**DATE OF VISIT**	28/10/2021
SITE NO	FS0606	**SITE NAME**	Westmill Fish Farm
CASE NO	20210420	**INSPECTOR**	[redacted]

An enhanced inspection to ascertain the risk of escape from the fish farm was conducted in accordance with the Aquaculture and Fisheries (Scotland) Act 2007.

The visit consisted of an inspection of facilities, records and the provision of advice.

a) Inspection of i) escape incidents and ii) contingency procedures

The site meets the requirement of current Scottish industry best practice. No recommendations made or further action required.

b)i) Inspection of records relating to equipment, facilities and the site

The site meets the requirement of current Scottish industry best practice. No recommendations made or further action required.

b)ii) Inspection of records relating to training

The site meets the requirement of current Scottish industry best practice. No recommendations made or further action required.

b)iii) Inspection of records relating to procedures and risk assessments

The site meets the requirement of current Scottish industry best practice. No recommendations made or further action required.

c) Inspection of site and site equipment

The site meets the requirement of current Scottish industry best practice. No recommendations made or further action required.

d) Inspection of site specific procedures

The site meets the requirement of current Scottish industry best practice. No recommendations made or further action required.

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

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

Signed: [redacted] Date: 17/12/2021

Senior Fish Health Inspector

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