

Case No:	<input type="text" value="2020-0037"/>	Date of visit:	<input type="text" value="26/02/2020"/>			
Time spent on site:	<input type="text" value="7 hours"/>	Main Inspector:	<input type="text" value=""/>			
Site No:	<input type="text" value="FS0927"/>	Site Name:	<input type="text" value="Kyles of Vuia"/>			
Business No:	<input type="text" value="FB0169"/>	Business Name:	<input type="text" value="The Scottish Salmon Company"/>			
Case Types:	1 <input type="text" value="ESC"/>	2 <input type="text" value="CNA"/>	3 <input type="text" value="VMD"/>	4 <input type="text" value="DIA"/>	5 <input type="text" value=""/>	6 <input type="text" value=""/>
Water Temp (°C):	<input type="text" value="5.5"/>	Thermometer No:	<input type="text" value="T147"/>	FHI 045 completed	<input type="text" value=""/>	
Observations:	Region:	WI	Water type:	S	CoGP MA	W-2
Dead/weak/abnormally behaving fish present?	<input type="text" value="Y"/>	If yes, see additional information/clinical score sheet.				
Clinical signs of disease observed?	<input type="text" value="Y"/>	If yes, see additional information/clinical score sheet.				
Gross pathology observed?	<input type="text" value="Y"/>	If yes, see additional information/clinical score sheet.				
Diagnostic samples taken?	<input type="text" value="Y"/>					

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

**Additional Case Information:**

Site inspected to carry out escape investigation and enhanced containment inspection, following incident which may have given rise to the risk of escape occurring when FHI last inspected the site on 04/12/2019.

Site has been experiencing increased seal predation over the last few months, new ADD system has recently been installed on site, subsequently mortalities attributed to seal damage have reduced over the past month.

During inspection 1-2 lethargic fish were observed in the majority of cages. In cage 4 several lethargic fish with lesions visible on the flanks were observed. % fish were removed for diagnostic sampling. The remaining lethargic fish observed on site were removed from the cages and dispatched.

Fish sampled for VMD appeared healthy.

**Escape investigation**

During a the previous FHI inspection on 04/12/2019, a seal was observed in cage 5, the seal was then seen to leave the cage. Divers arrived on site the same day to inspect the cage and net and discovered a hole near the base of net, approximately 25x15 mesh squares in size (nets on site have a mesh size of 15 mm). The hole was repaired by the divers. It is suspected that the hole was caused either by seal damage, or possibly by the lift-up system cone rubbing against the net during recent storm conditions Dive reports indicate that fish were observed to higher up the water column in the cage, no fish were observed outside the cage, and in the following days feed levels had not dropped. The APB completed and submitted the escape notification form to the FHI on the same day, noting that it was suspected that no fish escaped during the incident. Divers returned to site on 06/12/2019 to inspect all other cages on site, no damage or holes in nets were found, all support ropes for lift up systems were tightened. Prior to the escape, divers inspected cages and nets on 29/11/2019 with no holes or damage observed.

At the time of the escape the site had an OTAK A.D.D. system on installed on site. Following the incident frequencies on the A.D.D. were adjusted and an additional A.D.D. system (Ace Aquatec) has been installed on site, with both systems running. Mortality attributed to deal damage have fallen since.

Nets on site are currently STAR mesh, these are due to be replaced with Seal pro nets at the end of this production cycle. Seal pro nets are currently being installed on the neighbouring Vuia Mor site.

Case No: **2020-0037** Site No: **FS0927**

Date of Visit: **26/02/2020** Inspector(s): **[REDACTED]**

**Registration/Authorisation Details**

1. Business/site details summary checked by site representative? **Y**

2. Changes made to details? **N**

**Site Details**

Total No facilities	<b>14</b>	Facilities stocked	<b>14</b>	No facilities inspected	<b>14</b>
Species	<b>SAL LUM</b>				
Age group	<b>2019 S1</b>	<b>2019</b>			
No Fish	<b>340,112</b>	<b>46,226</b>			
Mean Fish Wt	<b>3.2 kg</b>	<b>Mix</b>			
Next Fallow Date (Site)	<b>June-July 2020</b>		Next Input Date (Site)	<b>January 2021</b>	

Recent (last 4 wks) disease problems? **N** Any escapes (since last visit)? **N**

If yes, detail: **[REDACTED]**

**Movement Records**

1. Movement records available for inspection? **Y**

2. Date of last inspection: **04/12/2019**

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)? **[REDACTED]**

If yes, is there a system in place for maintenance of transportation records? **[REDACTED]**

**Mortality Records**

1. Mortality records available for inspection? **Y**

2. How are mortalities disposed of? **Other (detail)**

If other detail: **White shore cockles**

3. Mortality records complete and correctly entered? **Y**

4. Recent mortality (last 4 wks): **w/b 27/01/20 - 2789 (0.8%), 03/02/20 - 2307 (0.67%), w/b 10/02/20 - 1466 (0.43%), w/b 17/02/20 - 1961 (0.57%) - mortality attributed to seal predation.**

5. Evidence of recent increased/atypical mortalities? **N**

If yes, facility nos/no mortality per facility/no stock per facility/reason: **[REDACTED]**

6. Any other peaks in mortality during period checked? **Y**

If yes, detail: **06/01/2020 - 20,728 (5.35%), w/b 13/01/20 - 12,323 (3.36%), w/b 20/01/20 - 5405 (1.53%)**

7. Have increased (unexplained) mortalities been reported to vet or FHI? **Y**

If yes, detail action: **FHI notified, Adjusting ADD frequency**

8. Have 'mortality events' been reported to FHI? If no, add MRT case and enter on mortality events sheet. **Y**

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

**Biosecurity Records**

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

**Results of Surveillance**

1. Has any animal health surveillance been carried out by, or on behalf of, the business?	<input type="checkbox"/>	Y
2. If yes, are results available for inspection?	<input type="checkbox"/>	Y
3. Any significant results?	<input type="checkbox"/>	Y
If yes, detail (if not detailed under recent disease problems).	AGD	
Awaiting most recent report from site visit on 09/02/2020		

Records checked between: 04/12/2019 - 26/02/2020

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

Priority samples: VI  BA  PA  MG  HI

Time sampling starts/ends:   Inspector:  VMD No.

Environmental conditions: 1  2  3  4  5

Summary samples HIST  BA  MG  VI  PA  Total Samples

**Add Fish/Pools - click**

Pool/Fish No	F1	F2	F3	F4	F5	P1							
Fish nos	1	2	3	4	5	1-5	6	7					
Pool Group	P1	P1	P1	P1	P1								
Species	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL					
Average weight	3.0000	3.0000	3.0000	3.0000	3.0000	3.0000	3.0000	3.0000					
Sex	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					
Stock Details		Russel Burn	Russel Burn	Russel Burn	Russel Burn	Russel Burn		Loch Lanagavt	Loch Lanagavt				
	Stock Origin												
Facility No	4	4	4	4	4		11	13					



Case no: 2020-0037

Site No: FS0927

Method of killing: Percussive

Date of visit: 26/02/2020

Inspector(s):

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												
	Lethargic	S	S	S	S	S							
	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		M										
	Enophthalmic (sunken)												
	Cataract												
	Haemorrhagic												
Gills	Pale												
	Zoned												
	Necrotic												
Lesions	Flank	S	S	S	S	S							
	Elsewhere												
Vent	Inflamed												
	Trailing faeces												
Lice Load	Estimate numbers	0	0	0	0	0							
Internal Signs													
Ascites	Clear												
	Bloody	M	W	M									
Oedema	In tissues												
Heart	Pale/anaemic												
	Granulomas												
	Deformed												
Liver	Petechial haem		M										
	Gross haem												
	Tissue breakdown												
	Enlarged												
	Colour number(s)												
	Granulomas												
	Lesions												
Pyloric caeca	Petechial haem					W							
	Tubules mauve				S								
	Lack of fat				M								
Spleen	Enlarged			S	W								
	Granulomas			M	W								
Gut	No food present												
	Yellow pseudo-faeces												
	External haem												
	Internal haem												
Body wall	Haemorrhaging		W	W									
Swim bladder	Haemorrhaging			M	M								
	Fluid filled												
Kidney	Swollen												
	Grey												
	Granular												
	Liquefied												
General	Parasites present												
	Anaemia												





Additional comments:

Site No: FS0927
Case No: 2020-0037
Nature of non-compliance:
Action taken (FHI):
Non-compliance relevant to (delete): VirologyMolGen/Bacteriology/Histology/Parasitology



Case No: 2020-0037 Site No: FS0927

Date of visit: 26/02/2020 Inspector(s):

Point of compliance	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary
<b>ENHANCED CONTAINMENT INSPECTION (SEAWATER)</b>				
<b>a. Enquiry relating to i) escape incidents and ii) contingency procedures</b>				
1.1. Have escape incidents or events <sup>1</sup> been experienced on or in the vicinity of the site since the last MSS inspection?		Y		04/12/2019: Site staff attended cages with FHI during routine inspection and observed a seal in one pen. Seal exited the pen and site staff immediately got divers on site (arrived within an hour) to check net. Found seal damaged area near base, where it would appear seal had bitten. Divers suggest that position of fish, high in the water column, would have resulted in no loss. Damage was repaired.
<b>If yes answer 1.2-1.8:</b>				
1.2. Have appropriate reports been made to Scottish Government within 24 hours of discovery?	High	Y	AAAH Regs <sup>4</sup> 31D,E	FHI on site at time of incident, notification form submitted 05/12/2019 - MSe041219SAL1
1.3. Have these been reported to the SSPO <sup>2</sup> and, where in existence, the local DSFB and fisheries trust?	Medium	Y	CoGP 4.4.37, 5.4.17	
1.4. Were methods (if any) used to recover escapees?		N/A		Suspected no fish lost, divers observed fish high in water column no fish observed outside of water.
<b>If yes give detail</b>				
1.5. Was the decision to attempt to recapture and the method employed agreed with the local DSFB and FT	Low	N/A	CoGP 4.4.38, 5.4.18	
1.6. Was permission sought from Marine Scotland prior to recapture?	Medium	N/A	CoGP 4.4.38, 5.4.18	
1.7. Were the gill nets deployed in accordance with the permission issued by Marine Scotland?	Low	N/A	CoGP 4.4.38, 5.4.18	
1.8. In light of the escape event, has appropriate action been taken to prevent and minimise the risk of further escapes?	High	Y		Hole repaired on same day divers inspected to net to check no other holes present, all remaining nets on site also inspected during following days. Uplift cone ropes tightened. Otak A.D.D. systems adjusted and new Ace system A.D.D installed on site, both operating at same time.
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	SSI, 2,9	

Point of compliance	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary																														
<b>b(i). Inspection of records relating to equipment, facilities and the site</b>																																		
General records			CoGP: 4.4.9, 4.4.14, SSI 2,1																															
2.1 With regard to each facility, net, screen and mooring at each site, a record should be maintained of:-			<table border="1"> <thead> <tr> <th data-bbox="934 341 1095 373">Facilities</th> <th data-bbox="1102 341 1263 373">Moorings</th> <th data-bbox="1270 341 1384 373">Nets</th> </tr> </thead> <tbody> <tr> <td data-bbox="934 378 1095 410">Y</td> <td data-bbox="1102 378 1263 410">Y</td> <td data-bbox="1270 378 1384 410">Y</td> </tr> <tr> <td data-bbox="934 414 1095 446">N/A</td> <td data-bbox="1102 414 1263 446">N/A</td> <td data-bbox="1270 414 1384 446">N/A</td> </tr> <tr> <td data-bbox="934 451 1095 483">Y</td> <td data-bbox="1102 451 1263 483">Y</td> <td data-bbox="1270 451 1384 483">Y</td> </tr> <tr> <td data-bbox="934 488 1095 520">Y</td> <td data-bbox="1102 488 1263 520">Y</td> <td data-bbox="1270 488 1384 520">Y</td> </tr> <tr> <td data-bbox="934 525 1095 557">Y</td> <td data-bbox="1102 525 1263 557">Y</td> <td data-bbox="1270 525 1384 557">Y</td> </tr> <tr> <td data-bbox="934 561 1095 593">Y</td> <td data-bbox="1102 561 1263 593">Y</td> <td data-bbox="1270 561 1384 593">Y</td> </tr> <tr> <td data-bbox="934 598 1095 630">Y</td> <td data-bbox="1102 598 1263 630">Y</td> <td data-bbox="1270 598 1384 630">Y</td> </tr> <tr> <td data-bbox="934 635 1095 667">Y</td> <td data-bbox="1102 635 1263 667">Y</td> <td data-bbox="1270 635 1384 667">Y</td> </tr> <tr> <td data-bbox="934 671 1095 703">Y</td> <td data-bbox="1102 671 1263 703">N/A</td> <td data-bbox="1270 671 1384 703">Y</td> </tr> </tbody> </table>	Facilities	Moorings	Nets	Y	Y	Y	N/A	N/A	N/A	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N/A	Y	
Facilities	Moorings	Nets																																
Y	Y	Y																																
N/A	N/A	N/A																																
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Y	Y	Y																																
Y	Y	Y																																
Y	Y	Y																																
Y	Y	Y																																
Y	Y	Y																																
Y	N/A	Y																																
a) The name of the manufacturer	Low	Y																																
b) Any special adaptations	Low	N/A																																
c) The name of the supplier	Low	Y																																
d) The date of purchase	Low	Y																																
e) Each inspection including																																		
i) the name of the person conducting the inspection	Low	Y																																
ii) the date of each inspection	Medium	Y																																
iii) the place of each inspection	Low	Y																																
iv) the outcome of each inspection	High	Y																																
f) the date and result of each repair, equipment test and antifouling treatment carried out	High	Y																																
2.2. In relation to each net a record of:																																		
i) The mesh size	Medium	Y	SSI, 2,2																															
ii) The code which appears on the identification tag	Medium	Y																																
iii) The place of use, storage and disposal	Medium	Y																																
iv) The depth of water between the bottom of the net and the seabed as measured at the mean low water spring	Low	Y																																
2.3. In relation to each facility a record of:																																		
i) The date of construction	Low	Y	SSI, 2,3																															
ii) The material used in construction	Low	Y																																
iii) Its dimensions	Low	Y																																
2.4. In relation to each mooring a record of-																																		
i) The date of installation	Low	Y	SSI, 2,4																															
ii) The design and weight of the anchors	Low	Y																																
iii) The length of the mooring ropes or chains	Low	Y																																
2.5. A record of any navigation markers deployed at each site at which fish are farmed	Low	Y	SSI, 2,5																															
2.6 In respect of sites at which fish are farmed in inland waters <sup>3</sup>																																		
a) The type, method of and date of construction of any flood prevention or flood defence measures in place	Low																																	
b) The date of and results of any tests conducted on any such measures	Low																																	

Point of compliance	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary
c) The date of any incident where the site was flood d) The water course height during any such flood incident	Low Low			
2.6 A record of-			SSI, 2,7	
a) The date of any severe weather event which caused damage to any facility, net or mooring	Medium	Y	SSI, 2,11 (a)	
b) Any action taken to rectify any such damage	High	Y	SSI, 2,11 (b)	Stanchions damaged on cage 3 and 13 during recent storm event. Temporarily secured, Fusion Marine due on site w/b 02/02/2020 to repair
<b>Pen and mooring systems</b>				
2.7 Are there documented procedures maintained regarding the selection and installation of pens and moorings?	High	Y	CoGP 4.4.8, 4.4.13	
2.8 Can the site demonstrate evidence that the design specification of pens and moorings are suitable for purpose and correctly installed?	High	Y	CoGP 4.4.9, 4.4.14	
2.9 Do pen systems meet the manufacturers guidelines?	High	Y	CoGP 4.4.10	
2.10 Are pen systems inspected and approved by suitably qualified / experienced person(s)?	High	Y	CoGP 4.4.11	
2.11 Is there evidence of the competence of personnel involved in the design, installation and maintenance of pen and mooring systems?	High	Y	CoGP 4.4.12, 4.4.15	
2.12 Are pen and mooring components inspected with a) a documented SOP b) a documented inspection plan based on a risk assessment	High	Y	CoGP 4.4.16	
2.13 Do all nets used on site meet industry standards?	High	Y	CoGP 4.4.17	
2.14 Can the site demonstrate an awareness of the minimum fish size in relation to net size	High	Y	CoGP 4.4.19	
2.15 Does the net design, quality and standard of manufacture take into account the conditions that are likely to be experienced on site and include adequate safety margins?	High	Y	CoGP 4.4.20	
2.16 Are nets treated with a UV inhibitor?	Low	Y	CoGP 4.4.21	
2.17 Are nets tested at a pre-determined frequency?	High	Y	CoGP 4.4.22	
2.18 Is the method of test procedure based upon the manufacturers advice?	High	Y	CoGP 4.4.22	
2.19 Are frequent net inspections conducted to look for damage?	High	Y	CoGP 4.4.23	
2.20 Are net inspection records maintained?	High	Y	CoGP 4.4.23	
2.21 Is the system by which nets are attached to the pen and weighted inspected frequently?	High	Y	CoGP 4.4.24	

Point of compliance	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary
2.22 Where damage to nets and/or associated fittings has occurred, or the potential for damage exists, has remedial action been taken?	High	Y	CoGP 4.4.25	
<b>b(ii). Inspection of records relating to training</b>				
3.1 Are training programmes and plans relevant to the various onsite activities documented?	High	Y	CoGP 7.1.8	
3.2 Is there a satisfactory record of all training and qualifications for each person working at the site in relation to any boat operations? (This excludes well boat operations)	High	Y	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	
<b>b(iii). Inspection of records relating to procedures and risk assessments</b>				
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 4.4.29, 5.4.12	Seal damage
4.2 Before procedures are conducted on site, are the following in place:			CoGP 4.4.30, 5.4.13 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 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	Y	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	
4.4 Does the site suffer from regular or heavy predation?		Y		
4.5 Are there records of site specific risk assessments ascertaining the risk of predator attack?	Medium	Y	CoGP 4.4.26	
4.6 Are there risk assessments undertaken on a pre-determined frequency?	Low	Y	CoGP 4.4.26	
4.7 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		

Point of compliance	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary
- The use of lethal means by any person involved in operations on the site	Low	Y	SSI, 2,8,b	
4.8 Where predator nets are deployed is the advice of Annex 7 considered?	Low	N/A	CoGP 4.4.27	
<b>c. Inspection of site and site equipment</b>				
5.1 Are there any obvious containment issues on the site?	High	N		
5.2 Is the net mesh size considered to be capable of containing all fish sizes present on site?	High	Y	CoGP 4.4.18	

Point of compliance	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary	
5.3 Do nets carry numbered ID tags?	Low	Y	SSI 2,2 ii	Tensioned nets, top nets, A.D.D., M.M.L.	
Look at a percentage of nets on site - Does the net location meet the inventory?	Low	Y			
5.4 Are nets stored away from direct sunlight?	Low	Y	CoGP 4.4.21		
5.6 Are appropriate measures in place to mitigate predation on site? (Provide detail if necessary)		Y			
5.7 Are boat operations conducted in such a manner which prevents damage to nets and pens?	High	Y	CoGP 4.4.28		
5.8 Is there a requirement for navigation markers to be deployed?	Low	Y	MSA <sup>5</sup> 2010 P4, S21		
5.9 If yes, has this been done in accordance with the necessary requirements?	Low	Y	MS Marine licence		
5.10 If Yes to 5.8 is there a record of any navigation markers deployed?	Low	Y	SSI 2,5		
<b>d. Inspection of site specific procedures</b>					
6.1 Are pen nets examined for holes, tears or damage prior to and during the stocking, moving or crowding of fish?	High	Y	CoGP 4.4.31		
6.2 If helicopter transfer of fish is conducted are receiving pen(s) properly prepared:-			CoGP 4.4.32		
a) nets should be secure	High	N/A			
b) pens should be marked with buoys clearly visible from the air	High	N/A			
c) 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 4.4.33		
Consideration should be given to all other site procedures being undertaken during the visit with respect to containment and the risk of fish farm escapes					



Point of compliance	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary
<b>Additional actions</b>	<b>Powers</b>			<b>Comments and advice given or action taken if necessary</b>
<b>e) Collection of samples</b> 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)	
<b>h) Enforcement Notice.</b> 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

4 The Aquatic Animal Health (Scotland) Regulations 2009 (as amended)

5 The Marine Scotland Act 2010



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

## FISH HEALTH INSPECTORATE VISIT REPORT

### SUMMARY FOR INFORMATION OF SITE OPERATOR

<b>BUSINESS No</b>	FB0169	<b>DATE OF VISIT</b>	26/02/2020
<b>SITE No</b>	FS0927	<b>SITE NAME</b>	Kyles of Vuia
<b>INSPECTOR</b>	[REDACTED]	<b>CASE No</b>	20200037

#### Section 1: Summary

The above site was inspected in order to carry out an enhanced containment inspection and VMD inspection. During inspection of the cages a number of lethargic fish, several with lesions, were observed across the site. Five fish were removed for further examination and subsequent diagnostic sampling.

Histopathology examination showed mild multifocal myositis potentially associated with the presence of salmonid alphavirus and ulcerative skin lesions which may impact on the osmotic balance. Splenitis was also noted in two fish. The presence of salmonid alphavirus was confirmed by real-time PCR (QPCR).

Bacteriological analysis identified two separate *Vibrio* spp. from plates taken from all five fish. The heavy level of growth was significant, however, the mixed nature of growth would not suggest it would be implicated as the primary source of morbidity. In addition, *Moritella viscosa* was identified from plates taken from three fish. The level and purity would not implicate it in fish morbidity.

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

#### Section 2: Case Detail

##### Observations

The above site was inspected in order to carry out an enhanced containment inspection and VMD inspection. The site had reported increased mortality attributed to seal damage during January 2020. Lesions observed on fish were attributed to a combination of seal damage and secondary bacterial infection. Recent mortality records indicated that mortality had since fallen.

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During inspection of the cages a number of lethargic fish, several with lesions, were observed across the site. Five fish were removed from cage 4, in which a higher number of lethargic fish with lesions were observed, for further examination and subsequent diagnostic sampling.

External examination showed lesions on the flanks of all five fish. The eyes of fish 2 were exophthalmic.

Internal examination showed haemorrhaging of the body wall (fish 2 and 3) and swim bladder (fish 3 and 4). Petechial haemorrhaging was observed in the liver of fish 2 and in the pyloric caeca of fish 5. The pyloric caeca of fish 5 had a lack of fat and was mauve in colour. Bloody ascites was present in fish 1-3. Enlarged spleens with the presence of granulomas were observed in fish 3 and 4.

### Samples

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

Fish number	Pool number	Facility number	Species	Stage	Origin
1-5	1	4	Atlantic salmon	2019 S1 ~ 3 kg	Russel Burn

### Results

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

The following bacteria were isolated:

*Vibrio* spp. (Isolate A): F1-5 (Kidney, Gill and Lesion)

*Vibrio* spp. (Isolate B): F1-5 (Kidney and Lesion)

*Moritella viscosa*: F2, F3 and F5 (Kidney)

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

#### Salmonid alphavirus (SAV)

Pool Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
P1	18.74	33.80	34.99	34.90	POSITIVE

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

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

Histopathological examination revealed the following:

**Gill:** Several scattered aneurysmal dilation/telangiectasia and lamellar thrombi (F1-F5).

**Skin & Muscle:** F1 showed moderate diffuse skeletal red fibres, hyaline degeneration and cellular proliferation was noted in the interfibre spaces - myositis.

F2 showed focus of haemorrhage in hypodermal layer and necrosis of skeletal muscle with associated Gram-negative bacteria and focus of epidermal layer spongiosis.

F3, F4 and F5 displayed oedema of dermal layer, minimal dermal leucocyte cell infiltration and foci clusters of Gram-negative bacteria associated with the dermis outer layer.

F4 and F5 showed skeletal white fibres and also exhibited mild multifocal hyaline degeneration and cellular proliferation was noted in the interfibre spaces.

**Heart:** F3 showed small foci of infiltration of inflammatory cells and fibre degeneration. Mild to moderate pericarditis was observed in F2 and F3.

**Gut and pyloric caeca:** Minimal inflammatory cell infiltration in the abdominal adipose tissue observed in F2.

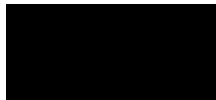
**Pancreas:** Within the normal range.

**Liver:** Small focus of cell infiltration (F1), several scattered apoptotic cells (F1, F4) and a small focus of hepatic haemorrhage (2).

**Kidney:** Dilation of the lumen of renal tubules (F2, F3, F4 & F5) and multifocal necrosis of interstitial tissue (hematopoietic tissue) (F3, F4 & F5).

**Spleen:** Mild multifocal necrosis of white pulp and slightly congested (F3, F4).

Signed:



Fish Health Inspector

Date: 24/03/2020

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

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

## FISH HEALTH INSPECTORATE VISIT REPORT

### SUMMARY FOR INFORMATION OF SITE OPERATOR

<b>BUSINESS No</b>	FB0169	<b>DATE OF VISIT</b>	26/02/2020
<b>SITE No</b>	FS0927	<b>SITE NAME</b>	Kyles of Vuia
<b>INSPECTOR</b>	[REDACTED]	<b>CASE No</b>	20200037

### ENHANCED CONTAINMENT INSPECTION

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**

It is recommended that a documented review of the predator risk assessment and the equipment and farm design is undertaken to meet the requirements of Chapter 4, points 4.26 and 5.8 of the Code of Good Practice for Scottish Finfish Aquaculture. This should ensure that appropriate equipment is in place to protect the site stock from predator ingress and that appropriate mitigations are in place to deter predator attacks.

### **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.

### **Further Action**

The recommendations in this report should be implemented by 21/08/2020. Documentation should be provided as evidence that the recommendations have been implemented. Enforcement action may result if the recommendations are not implemented in the necessary time frame. Records should be sent to Marine Scotland Science's Fish Health Inspectorate (FHI) (contact details are provided below).

Please do not hesitate to contact myself or the duty inspector should you require any further information or have any queries regarding this report.

Signed:



Date: 18/05/2020

Fish Health Inspector

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Marine Scotland website at [www.scotland.gov.uk/Topics/marine/Fish-Shellfish/FHI/charter](http://www.scotland.gov.uk/Topics/marine/Fish-Shellfish/FHI/charter)

Scotland's Marine Atlas, an assessment of the condition of Scotland's seas, is available at [www.scotland.gov.uk/marineatlas](http://www.scotland.gov.uk/marineatlas)

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## FISH HEALTH INSPECTORATE VISIT REPORT

### SUMMARY FOR INFORMATION OF SITE OPERATOR

<b>BUSINESS No</b>	FB0169	<b>DATE OF VISIT</b>	26/02/2020
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#### **Inspection under the Animals and Animal Products (Examination for Residues and Maximum Residue Limits) (England and Scotland) Regulations 2015**

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

Samples were taken to be analysed for veterinary residues.

In addition, samples were taken for diagnostic purposes. A separate report will be issued detailing the results of these tests.

#### Records

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

Medicine records were inspected and found to be adequately maintained.

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

Mortality records were inspected and found to be adequately maintained.

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

#### **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, regarding containment and escapes.

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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:



Date: 16/03/2020

Fish Health Inspector

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

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## FISH HEALTH INSPECTORATE VISIT REPORT

### SUMMARY FOR INFORMATION OF SITE OPERATOR

<b>BUSINESS No</b>	FB0169	<b>DATE OF VISIT</b>	26/02/2020
<b>SITE No</b>	FS0927	<b>SITE NAME</b>	Kyles of Vuia
<b>INSPECTOR</b>	[REDACTED]	<b>CASE No</b>	20200037

#### Case completion report

Recommendations in relation to the above case were made for implementation by 21/08/2020. Following submission of the required documentation, evidence has now been provided to Marine Scotland to demonstrate that the recommendations have been implemented.

This case will now be closed. This site may be subject to further audit and recommendations in the future.

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

Signed:

[REDACTED]

Fish Health Inspector

Date: 31/08/2020

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/>



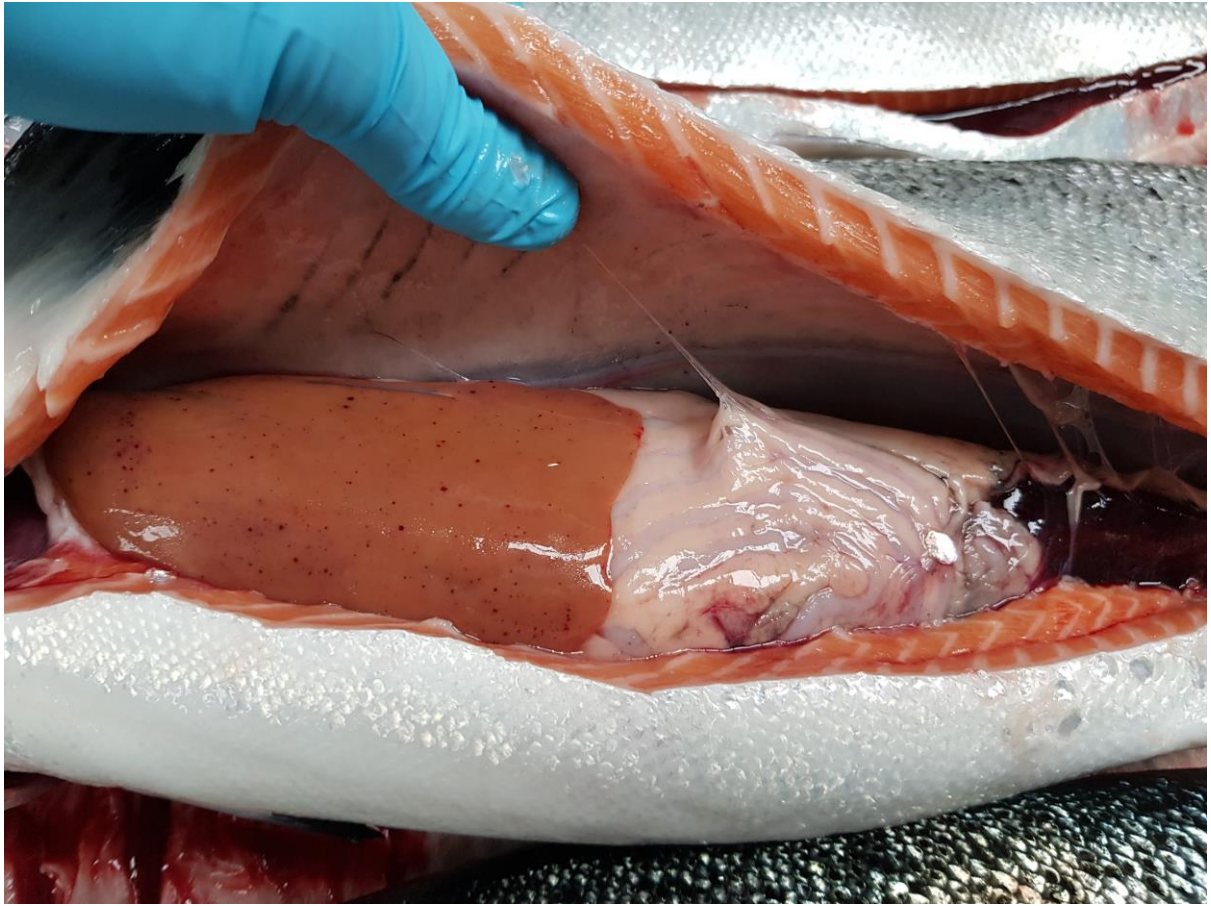
F1 - F3



F4 – F5



F1



F2



F3



F4





F5