

Appendix:

Fish Health Inspectorate 'Case Information'

(data [published on 19 December 2019](#))

[October 2019:](#)

The screenshot shows the Scottish Government website header with the logo and navigation menu. The main content area is titled 'October 2019' and contains a list of case information links. The left sidebar shows a navigation tree with 'Case Information 2019' selected.

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October 2019

Please click on the links below to access case information and the list of cases conducted for Month Year. Cases are arranged in case number order - to match a case number to a site please use the [list of cases conducted](#).

- [Cases 20190496-20190580](#)
- [Cases 20190581-20190613](#)
- [Cases 20190614-20190632](#)
- [Cases 20190636-20190656](#)

[Cases 20190496-20190580](#)

The screenshot shows the Scottish Government website header and navigation menu. The main content area is titled 'Cases 20190496-20190580' and contains a 'Downloadable document' section with a table of document details. The left sidebar shows a navigation tree with 'October 2019' selected.

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Cases 20190496-20190580

Downloadable document:

Title:	Cases 20190496-20190580
Description:	Cases 20190496-20190580
File:	Cases 20190496-20190580 [PDF, 11638.7 kb: 19 Dec 2019] Open Open in new window
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p1:

Case No:	2019-0496	Date of visit:	02/10/2019			
Time spent on site:	4.5hrs	Main Inspector:				
Site No:	FS1281	Site Name:	Sgian Dubh			
Business No:	FB0169	Business Name:	The Scottish Salmon Company			
Case Types:	1 ECI	2 CNI	3 SLI	4	5	6
Water Temp (°C):	13.5	Thermometer No:	T152	FHI 045 completed	N	
Observations:	Region:	ST	Water type:	S	CoGP MA	M-45
Dead/weak/abnormally behaving fish present?	<input type="checkbox"/> N	If yes, see additional information/clinical score sheet.				
Clinical signs of disease observed?	<input type="checkbox"/> N	If yes, see additional information/clinical score sheet.				
Gross pathology observed?	<input type="checkbox"/> N	If yes, see additional information/clinical score sheet.				
Diagnostic samples taken?	<input type="checkbox"/> N					

Additional Case Information:

Site was visited in July 2019, however the water temperature was >14degrees, and so an EC inspection could not be completed. Site re-visited to complete this.

Site manager prefers to be contacted on his mobile.

Harvest station at shorebase. Fish collected in wellboats and pumped live into harvest station before being transported by tanker to Cairndow for processing.

Recent plankton blooms were associated with an increase in the prevalence of AGD and PGD on site. However, no mortalities as a result of this. Fish were treated with hydrogen peroxide and recovered well.

Wild caught wrasse on site, site manager is happy with their performance with regards to lice clearance. Wrasse; 5% stocking density. 4, 500 mortalities since input.

SLICE and hydrogen peroxide administered during this cycle.

Two large freshwater tanks at shorebase. Water pumped from local river and stored for freshwater treatments. Well boats will be able to connect to these and fill up with freshwater for treatments throughout TSSC.

Low mortalities across site since input. Mainly attributed to poor performers.

Low sea lice figures since input. Site has just begun a week long SLICE treatment (01/10/19), not in response to high lice numbers.

Large seal observed close to cages during inspection. Site representative informed us that this particular seal was observed often around the site, but was not causing any damage to equipment or stock.

Inspection completed by [redacted] under [redacted] supervision.

Recent (last 4 wks) disease problems?	Y	Any escapes (since last visit)?	N
If yes, detail: AGD and PGD associated with plankton blooms.			
Movement Records			
1. Movement records available for inspection?			Y
2. Date of last inspection:		24/07/2019	
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)?			N
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?		Whole fish - Dundas Chemicals	
If other detail: Skipped on shorebase, collected by Billy Bowie and taken to Dundas.			
3. Mortality records complete and correctly entered?			Y
4. Recent mortality (last 4 wks):		Wk35: 129 (0.01%), wk36: 560 (0.05%), wk37: 420 (0.04%), wk38: 734 (0.05%), wk39: 1, 090 (0.09%).	
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). PGD and AGD, associated with plankton blooms.			
Report date: 13/09/2019			
Records checked between: 24/07/19 - 02/10/19			

p40:

Case No:	2019-0534	Date of visit:	02/10/2019
Time spent on site:	3.5 hours	Main Inspector:	
Site No:	FS0254	Site Name:	Knock
Business No:	FB0125	Business Name:	Scottish Sea Farms Ltd
Case Types:	1 ECI	2 CNI	3 VMD
Water Temp (°C):	12.5	Thermometer No:	Site
Observations:	Region: ST	Water type: F	FHI 045 completed
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		

Additional Case Information:

Accompanied by
 Site temperature probe used due to biosecurity

Most recent vet report - 13/09/19 - pre transfer check and histology samples taken, no significant results. Biologist on site 23/09/2019, report due to be sent through to site manager.

Fish affected by fungus sent out to sea sites on veterinary advice.

Fish sampled for VMD appeared healthy.

Recent (last 4 wks) disease problems?	<input type="checkbox"/>	Y Any escapes (since last visit)?	<input type="checkbox"/>	N
If yes, detail:	Fungus affecting 2019 S0 stock, 2 tanks with S0 stock remaining on site, due to be moved out to sea site by end of October.			

Movement Records

1. Movement records available for inspection?	<input type="checkbox"/>	<input type="checkbox"/>	Y
2. Date of last inspection:	03/10/2018		
3. Are records complete and correctly entered?	<input type="checkbox"/>	<input type="checkbox"/>	Y
4. Are movement records available for dead fish and waste?	<input type="checkbox"/>	<input type="checkbox"/>	Y
5. Are records complete and correctly entered?	<input type="checkbox"/>	<input type="checkbox"/>	Y
6. Are health certificates for introductions (outwith GB) available?	<input type="checkbox"/>	<input type="checkbox"/>	Y

Transport Records

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

Mortality Records

1. Mortality records available for inspection?	<input type="checkbox"/>	<input type="checkbox"/>	Y
2. How are mortalities disposed of?	Whole fish - Dundas Chemicals		
If other detail:			
3. Mortality records complete and correctly entered?	<input type="checkbox"/>	<input type="checkbox"/>	Y
4. Recent mortality (last 4 wks):	127,810 (6.18%) - fungus, stock due to head to sea as S0 2019 affected. Stock had undergone vaccination (PD3).		
5. Evidence of recent increased/atypical mortalities?	<input type="checkbox"/>	<input type="checkbox"/>	Y
If yes, facility nos/no mortality per facility/no stock per facility/reason:	w/b 02/09/19 - 19,780 (1%) attributed to fungus. w/b 09/09/19 - 29,472 (1.52%) attributed to fungus, tanks A1 - A12 worst affected, 200-500/tank/day. w/b 16/09/2019 22,210 (1.25%) attributed to fungus, tank A10 worst affected - 16,968. w/b 23/09/19 - 53,212 (3.26%) all attributed to fungus, tank A10 worst affected (33,554). Remaining stock from tank A10 transferred to Wyre on 29/10/2019 following veterinary advice.		
6. Any other peaks in mortality during period checked?	<input type="checkbox"/>	<input type="checkbox"/>	N
If yes, detail:			
7. Have increased (unexplained) mortalities been reported to vet or FHI?	<input type="checkbox"/>	<input type="checkbox"/>	Y
If yes, detail action:	Health team aware of issue and biologists have attended site.		
8. Have 'mortality events' been reported to FHI? If no, add MRT case and enter on mortality events sheet.	<input type="checkbox"/>	<input type="checkbox"/>	N

Treatments and Medicines Records

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

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												
Fish nos	1-15	16-25	26-35	36-45	46-55	56-65	66-77	78-89				
Pool Group												
Species	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL				
Average weight	40g	40g	40g	40g	40g	40g	40g	40g				
Sex	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
Water Type	FW	FW	FW	FW	FW	FW	FW	FW				
Stock Details												
	Stock Origin											
Facility No	H9	H1	H2	F3	F2	A7	A9	A11				

Case No: Site No: Date of visit:

Start date:	End date: (if applicable)	Size of fish:	Average weight of affected population:	Species:	Yearclass:	Timescale	Mortality rate recorded(%)	Explained/unexplained:	If explained, select reason(s):
09/09/19	15/09/2019	<750g	70g	SAL	Parr	Weekly	1.52	Explained	Fungus
23/09/19	29/09/2019	<750g	70g	SAL	Parr	Weekly	3.26	Explained	Fungus

If unexplained, select observations:	Total mortality during event (if available):	Additional information (e.g. action taken by company):	Action taken by FHI (include case no where applicable):
	29472	S0 stock on site affected by fungus, worst affected tanks remaining stock sent to sea sites on veterinary advice	Picked up during inspection (2019-0534), no clinical signs of disease observed in remaining stock on site, fish sampled for VMD appeared healthy.
	53212	S0 stock on site affected by fungus, worst affected tanks remaining stock sent to sea sites on veterinary advice	Picked up during inspection (2019-0534), no clinical signs of disease observed in remaining stock on site, fish sampled for VMD appeared healthy.

p53:

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

p62:

Case No:	2019-0536	Date of visit:	03/10/2019
Time spent on site:	3.5 hours	Main Inspector:	
Site No:	FS0839	Site Name:	Geasgill
Business No:	FB0169	Business Name:	The Scottish Salmon Company
Case Types:	1 REG	2 VMD	3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/>
Water Temp (°C):	14.2	Thermometer No:	Site
		FHI 045 completed	<input type="checkbox"/>
Observations:	Region:	ST	Water type: S CoGP MA M-37
Dead/weak/abnormally behaving fish present?	<input type="checkbox"/> Y	If yes, see additional information/clinical score sheet.	
Clinical signs of disease observed?	<input type="checkbox"/> N	If yes, see additional information/clinical score sheet.	
Gross pathology observed?	<input type="checkbox"/> N	If yes, see additional information/clinical score sheet.	
Diagnostic samples taken?	<input type="checkbox"/> N		
UNI/REG only - if unable to carry out intended visit detail reason below:			
Temperature above 14			

Additional Case Information:

Accompanied by

Farmed lumpfish on site, sourced from Otter Ferry

Site thermometer used as inspector thermometer left at shorebase.

Aerators used on cages to flush out plankton and micro jellies

Average adult female lice counts above CoGP suggested criteria for treatment, below reporting levels since 28/08/19, hydroliser has treated on 19th and 23rd September, average adult female lice numbers subsequently fell below suggested criteria for treatment (count from w/b 30/09). Site staff unable to carry out lice count w/b 23/09 due to increased mortality in recent weeks attributed to plankton bloom. Reason for not carrying out count not recorded. Site manager advised of requirement to record reasons for not carrying out a sea lice count.

2 morts seen across site, no moribund or lethargic fish observed.

Fish sampled for VMD appeared healthy.

Mortality Records	
1. Mortality records available for inspection?	<input type="checkbox"/> Y
2. How are mortalities disposed of?	Whole fish - Dundas Chemicals
If other detail:	
3. Mortality records complete and correctly entered?	<input type="checkbox"/> Y
4. Recent mortality (last 4 wks):	w/b 02/09/19 - 2095 (0.29%), w/b 09/09/19 - 3222 (0.45%), w/b 16/09/19 - 5191 (0.73%), w/b 23/09/2019 - 14527 (2.05%)
5. Evidence of recent increased/atypical mortalities?	<input type="checkbox"/> Y
If yes, facility nos/no mortality per facility/no stock per facility/reason:	Attributed to plankton bloom. Cages 3, 4, 9, 10 and 11 worst affected - w/b 23/09/19 - cage 3 - 2737, cage 4 - 2914, cage 9 - 4336, cage 10 - 1020, cage 11, 1702.
6. Any other peaks in mortality during period checked?	<input type="checkbox"/> N
If yes, detail:	
7. Have increased (unexplained) mortalities been reported to vet or FHI?	<input type="checkbox"/> Y
If yes, detail action:	health team have attended site, aerators being used to flush plankton out of cages
8. Have 'mortality events' been reported to FHI? If no, add MRT case and enter on mortality events sheet.	<input type="checkbox"/> Y

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 confirmed by pcr and histology

Records checked between: 23/08/2017 - 03/10/2019

p77

Case No: 2019-0537 Date of visit: 03/10/2019

Time spent on site: 3.5 hours Main Inspector: [REDACTED]

Site No: FS0593 Site Name: Inch Kenneth
 Business No: FB0169 Business Name: The Scottish Salmon Company

Case Types: 1 REG 2 CNI 3 SLI 4 VMD 5 [REDACTED] 6 [REDACTED]

Water Temp (°C): 14.2 Thermometer No: Site FHI 045 completed

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

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

Additional Case Information:

Accompanied by [REDACTED]

Site thermometer used as inspector thermometer left at shorebase.

Farmed lumpfish on site, sourced from Otter Ferry

Average adult female lice counts above CoGP suggested criteria for treatment, below reporting levels from w/b 26/08/19, hydrolicer treated on 19th and 23rd September, average adult female lice numbers subsequently fell below suggested criteria for treatment (count from w/b 30/09). Site staff unable to carry out lice count w/b 23/09 due to increased mortality in recent weeks attributed to plankton bloom. Reason for not carrying out count not recorded. Site manager advised of requirement to record reasons for not carrying out a sea lice count.

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 confirmed by pcr and histology

Records checked between: 23/08/2017 - 03/10/2019

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

On this occasion a recommendation was issued in relation to parasites (sea lice):

- A record must be maintained of the reason for not conducting a weekly count of parasites in the event that such a count is not undertaken in any week.

Please ensure that these points have been addressed by 15/11/2019. Records or documentation demonstrating that this point has been addressed should be sent to the Fish Health Inspectorate (contact details below). The site may be subject to further inspection or enforcement action should the appropriate action regarding the above points not be taken within the time period stipulated.

[Cases 20190581-20190613](#)

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Cases 20190581-20190613

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p14:

Case No:	2019-0583	Date of visit:	09/10/2019			
Time spent on site:	4.5 hrs	Main Inspector:				
Site No:	FS0270	Site Name:	Loch Avich			
Business No:	FB0134	Business Name:	Kames Fish Farming Ltd			
Case Types:	1 REP	2 DIA	3	4	5	6
Water Temp (°C):	11.9	Thermometer No:	T148	FHI 045 completed:		
Observations:	Region:	ST	Water type:	F	CoGP MA	
Dead/weak/abnormally behaving fish present?	<input checked="" type="checkbox"/>	If yes, see additional information/clinical score sheet.				
Clinical signs of disease observed?	<input checked="" type="checkbox"/>	If yes, see additional information/clinical score sheet.				
Gross pathology observed?	<input checked="" type="checkbox"/>	If yes, see additional information/clinical score sheet.				
Diagnostic samples taken?	<input checked="" type="checkbox"/>					

Additional Case Information:

Site started vaccination (PD7) of fish on 4/09/19 (week 36). Formalin treatment started on wk 37 (morts 1%, 3213) but on wk 38 morts suddenly jumped to 5.77% (18477).

Results from FVG from samples taken on the 16th September came back positive for furunculosis on the 19th. FVG also reported haemorrhaging in different organs, including the gills. Internal lesions were not as obvious as external ones. Bacteriology plates cultured by Kames isolated *Aeromonas salmonicida*, causative agent of furunculosis.

FVG issued prescription for Aquatet (Oxytetracycline, mixed at Kames) on 20/09/19 for 10 days of treatment which has appeared to have stopped the infection. Site still doing formalin treatment for saprolegnia.

Special biosecurity measures have been put in place. Specific vehicles/equipment as well as staff only working at affected sites.

Another Kames site tested positive for furunculosis by histology but mortality levels have not increased.

Recent (last 4 wks) disease problems?	Y	Any escapes (since last visit)?	N
If yes, detail: Morts jumped from 0.01% to over reporting level 1 week after vaccination. Furunculosis & saprolegnia confirmed on site by vet. Haemorrhaging noted in different organs inc. gills. Internal lesions not as obvious as external. Bacteriology cultures isolated <i>Aeromonas salmonicida</i>			
Movement Records			
1. Movement records available for inspection?			Y
2. Date of last inspection:		27/02/2017	
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?	Other (detail)		
If other detail: Morts moved by bin to kames pier and ensiled daily.			
3. Mortality records complete and correctly entered?			Y
4. Recent mortality (last 4 wks):	Wk37 3213 (1%), wk38 18477 (5.77%), wk39 22827 (7.13%), wk40 33571 (12.16%)		
5. Evidence of recent increased/atypical mortalities?			Y
If yes, facility nos/no mortality per facility/no stock per facility/reason:			
No specific cages showing higher morts than others. Pattern shows an increase in morts 1 week after pen was vaccinated.			
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:			
Increased morts reported to vet and FHI. Samples taken by vet			
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)?		Y
If yes, detail: Formalin, Oxytetracycline		
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)?	Formalin, Oxytetracycline	
If other, detail:		
6. Are medicines stored appropriately?		Y

Results of Surveillance

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

	Y
	Y
	Y

see recent disease problems

Records checked between:

22/02/2017 - 09/10/2019

FHI 059, Version 12

Issued by: FHI

10/2019 Additional Sample Information:

Fish showing clear signs of saprolegnia. Some fish also noted to have haemorrhaging at the vents and on the throat. Not a lot of internal signs. Only weak haemorrhaging of the body wall noted.

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[REDACTED]
Kames Fish Farming Ltd
Kilmelford
Oban
Argyll
PA34 4XA
[REDACTED]

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NO FB0134
SITE NO FS0270
INSPECTOR [REDACTED]

DATE OF VISIT 09/10/2019
SITE NAME Loch Avich
CASE NO 20190583

Section 1: Summary

The above site was inspected following a report from the company of a recent increase in mortality. During the inspection several lethargic fish were observed across the site and five fish were removed for further examination and subsequent diagnostic sampling.

Histopathology examination revealed mild bacterial branchitis. Samples were also screened by QPCR for salmon gill poxvirus (SGPV) and tested positive in one of the fish. However, histopathology results did not revealed lesions consistent with clinical salmon gill poxvirus.

Two *Aeromonas* spp. and a bacterium from the Enterobacteriaceae family were identified, the level and purity of growth would not suggest these bacteria are the primary source of morbidity. *Flavobacterium psychrophilum* was identified, the level of growth may indicate a risk to fish health.

A fungus-like organism matching the characteristics of *Saprolegnia* sp. by microscopic examination was also identified, the level of growth would not suggest it would be implicated as a primary pathogen.

Case No:	2019-0601	Date of visit:	15/10/2019
Time spent on site:	1 hour	Main Inspector:	
Site No:	FS1095	Site Name:	Cliff Site
Business No:	FB0095	Business Name:	Cooke Aquaculture Scotland Ltd
Case Types:	1 ECI	2 CNI	3 UNI
Water Temp (°C):	9	Thermometer No:	T148
Observations:	Region: SH	Water type: F	FHI 045 completed
Dead/weak/abnormally behaving fish present?	<input type="checkbox"/> N	If yes, see additional information/clinical score sheet.	
Clinical signs of disease observed?	<input type="checkbox"/> N	If yes, see additional information/clinical score sheet.	
Gross pathology observed?	<input type="checkbox"/> N	If yes, see additional information/clinical score sheet.	
Diagnostic samples taken?	<input type="checkbox"/> N		

Additional Case Information:

Batch from Cairndow fish arrived on site (6/08/2019) with BGD and fungus issues. The decision was made after enduring significant mortality in wb: 16/09/19, to cull the remaining stock received from Cairndow. Mortality in wb: 16/09/2019 was reported to the FHI, however because it was within 6 weeks of the fish being stocked, this was not required.

Unannounced inspection was conducted, this was carried out in response to an anonymous complaint made to the FHI that morts were being dumped on the shore of the loch in which Cliff site is located. When the site manager was asked about this claim, he remarked that there had been no occasion or occurrence where morts could have ended up on the shore. Upon inspection of site, no dead fish were observed around the site, or the shores of the loch the site is located in.

Only one pen of fish remain on site. Fish could not easily be observed due to the dark peaty water. Ones that were observed appeared healthy and in good condition.

Recent (last 4 wks) disease problems?	Y	Any escapes (since last visit)?	N
If yes, detail:	Bacterial gill disease, fungus		
Movement Records			
1. Movement records available for inspection?			Y
2. Date of last inspection:	03/10/2017		
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)?			N
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?	Incinerated - Shetland Waste to Energy		
If other detail:			
3. Mortality records complete and correctly entered?			Y
4. Recent mortality (last 4 wks):	Wk -41(0.03%-16 fish)40(0.04%-18 fish)39(0.05%-21 fish)38(3.99% -14270 fish)		
5. Evidence of recent increased/atypical mortalities?			Y
If yes, facility nos/no mortality per facility/no stock per facility/reason:	One batch of fish from Cairndow. BGD - Fungus - Fish culled.		
6. Any other peaks in mortality during period checked?			Y
If yes, detail:	See above - BGD		
7. Have increased (unexplained) mortalities been reported to vet or FHI?			Y
If yes, detail action:	Cull		
8. Have 'mortality events' been reported to FHI? If no, add MRT case and enter on mortality events sheet.			N/A

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).		BGD and Fungal lesions.
Records checked between: 3/10/2017 - 15/10/19		

p101:

Case No:	2019-0602	Date of visit:	16/10/2019			
Time spent on site:	6 hours	Main Inspector:				
Site No:	FS1275	Site Name:	Flaeshins			
Business No:	FB0095	Business Name:	Cooke Aquaculture Scotland Ltd			
Case Types:	1 <input type="checkbox"/> ECI	2 <input type="checkbox"/> CNI	3 <input type="checkbox"/> SLI	4 <input type="checkbox"/> VMD	5 <input type="checkbox"/>	6 <input type="checkbox"/>
Water Temp (°C):	11.5	Thermometer No:	T148	FHI 045 completed	<input type="checkbox"/>	
Observations:	Region:	SH	Water type:	S	CoGP MA	S-3
Dead/weak/abnormally behaving fish present?	<input type="checkbox"/> N	If yes, see additional information/clinical score sheet.				
Clinical signs of disease observed?	<input type="checkbox"/> N	If yes, see additional information/clinical score sheet.				
Gross pathology observed?	<input type="checkbox"/> N	If yes, see additional information/clinical score sheet.				
Diagnostic samples taken?	<input type="checkbox"/> N					

Additional Case Information:

Fish on site showing pathology of CMS, Grumbling mortality due to size of fish with CMS complication.

Site is currently being harvested out.

Mortality event in week 18 2019 (1.06%) - was not reported to FHI - event was due to post treatment mortality following a thermolicer treatment.

Flaeshins is not followed synchronously with the rest of the sites in the area as it located across the Loch away from the other sites, and is situated by itself.

Recent (last 4 wks) disease problems?	Y	Any escapes (since last visit)?	N
If yes, detail: CMS			
Movement Records			
1. Movement records available for inspection?			Y
2. Date of last inspection:		29/08/2017	
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)?			N
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?		Incinerated - Shetland Waste to Energy	
If other detail:			
3. Mortality records complete and correctly entered?			Y
4. Recent mortality (last 4 wks):		41(1529 fish - 0.58%)40(1639 fish-0.59%)39(1428 fish-0.52%)38(1905 fish-0.65%)	
5. Evidence of recent increased/atypical mortalities?			Y
If yes, facility nos/no mortality per facility/no stock per facility/reason:			
whole site seeing elevated mortalities due to CMS			
6. Any other peaks in mortality during period checked?			Y
If yes, detail: Week 18 2019 (5414 - 1.06%) Post treatment mortality - Thermolicer			
7. Have increased (unexplained) mortalities been reported to vet or FHI?			Y
If yes, detail action: Company vet contacted			
8. Have 'mortality events' been reported to FHI? If no, add MRT case and enter on mortality events sheet.			N

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): CMS pathology observed by company biologist.			
Records checked between: 29/08/2017 - 16/10/2019			

Case No: 2019-0602 Site No: FS1275 Date of visit: 16/10/2019

Start date:	End date: (if applicable)	Size of fish:	Average weight of affected population:	Species:	Yearclass:	Timescale	Mortality rate recorded(%):	Explained/unexplained:	If explained, select reason(s):
29/04/19	05/05/2019	≥750g	not known	SAL	18 S1's	Weekly	1.06	Explained	Treatment

If unexplained, select observations:	Total mortality during event (if available):	Additional information (e.g. action taken by company):	Action taken by FHI (include case no where applicable):
	5414		Picked up during inspection (2019-0602) - No further action required.

Case No:	2019-0603	Date of visit:	17/10/2019
Time spent on site:	5 hours	Main Inspector:	
Site No:	FS0292	Site Name:	Bight of Foraness
Business No:	FB0440	Business Name:	Grieg Seafood Shetland Ltd
Case Types:	1 ECI	2 CNI	3 SLI
	4 VMD	5	6
Water Temp (°C):	11.2	Thermometer No:	T148
		FHI 045 completed	
Observations:	Region: SH	Water type: S	CoGP MA S-4
Dead/weak/abnormally behaving fish present?	<input type="checkbox"/> N	If yes, see additional information/clinical score sheet.	
Clinical signs of disease observed?	<input type="checkbox"/> N	If yes, see additional information/clinical score sheet.	
Gross pathology observed?	<input type="checkbox"/> N	If yes, see additional information/clinical score sheet.	
Diagnostic samples taken?	<input type="checkbox"/> N		

Additional Case Information:

Site is currently treating for sea lice. Using an optilicer and a fresh water well boat. Some trouble has been encountered with the fresh water well boat. Strong tides make the site dangerous to work on when the large boat is tied up to the cages.

Sea lice levels went over the reporting threshold wb: 9/10/2019 - 2.28 average adult females and wb:16/10/2019 - 2.90 average adult females

Treatments are helping keep sea lice numbers down.

In wb: 23/09/2019 a salmosan treatment in pen 10 caused the site mortality to rise above the reporting threshold. (7183 - 1.36%)

Mortality Records	
1. Mortality records available for inspection?	<input type="checkbox"/> Y
2. How are mortalities disposed of?	Incinerated - Shetland Waste to Energy
If other detail:	
3. Mortality records complete and correctly entered?	<input type="checkbox"/> Y
4. Recent mortality (last 4 wks):	41(2347 Fish-0.45%)40(1421 fish-0.27%)39(7183 fish-1.36%)38(735 fish-0.14%)
5. Evidence of recent increased/atypical mortalities?	<input type="checkbox"/> Y
If yes, facility nos/no mortality per facility/no stock per facility/reason:	Pen 10 - Post treatment mortality from salmosan treatment. See additional information
6. Any other peaks in mortality during period checked?	<input type="checkbox"/> N
If yes, detail:	
7. Have increased (unexplained) mortalities been reported to vet or FHI?	<input type="checkbox"/> Y
If yes, detail action:	Company vets was notified
8. Have 'mortality events' been reported to FHI? If no, add MRT case and enter on mortality events sheet.	<input type="checkbox"/> N

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).	Sea lice numbers increasing. Treatment planned.
Records checked between:	26/07/2017-17/10/2019

Case No: 2019-0603 Site No: FS0292 Date of visit: 17/10/2019

Start date:	End date: (if applicable)	Size of fish:	Average weight of affected population:	Species:	Yearclass:	Timescale	Mortality rate recorded(%):	Explained/unexplained:	If explained, select reason(s):
23/09/19	29/09/2019	≥750g	2.5kg	SAL	2019 S1's	Weekly	1.36	Unexplained	Treatment

If unexplained, select observations:	Total mortality during event (if available):	Additional information (e.g. action taken by company):	Action taken by FHI (include case no where applicable):
	7183	Salmosan treatment - fish started to turn towards the end of the treatment. Treatment finished early. No more salmosan treatments were used in this cycle of treatments. Freshwater well boat and oilicer being used to treat fish instead.	Site visited (2019-0603), no further action required.

[Cases 20190614-20190632](#)


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p34:

Case No:	2019-0619	Date of visit:	22/10/2019
Time spent on site:	5.5 hours	Main Inspector:	
Site No:	FS0413	Site Name:	Camas Glas
Business No:	FB0119	Business Name:	Mowi Scotland Ltd
Case Types:	1 REP	2 VMD	3 DIA
Water Temp (°C):	12.3	Thermometer No:	T147
Observations:	Region: HI	Water type: S	FHI 045 completed
Dead/weak/abnormally behaving fish present?	<input checked="" type="checkbox"/>	If yes, see additional information/clinical score sheet.	
Clinical signs of disease observed?	<input checked="" type="checkbox"/>	If yes, see additional information/clinical score sheet.	
Gross pathology observed?	<input checked="" type="checkbox"/>	If yes, see additional information/clinical score sheet.	
Diagnostic samples taken?	<input checked="" type="checkbox"/>		

Additional Case Information:

Site inspected following report of increased mortality from business.
 Site split into 2 separate cage groups, cages 1-8 and cages 9-16
 Cages 2, 3, 4, 5, 6, 7, and 8 worst affected by mortality in recent weeks, all 2018 Q4 stock except cage 2 which is 2019 Q1.
 All those cages have been harvested out and are now fallow as of 18/10/2019, only cage 1 (2019 Q1) remains stocked in that cage group. Remaining stocked cages on site are being treated with antibiotic (Aquatet).
 Several lethargic fish observed in cage 1, removed for diagnostic sampling.

Recent (last 4 wks) disease problems?	<input checked="" type="checkbox"/>	Any escapes (since last visit)?	<input type="checkbox"/>
If yes, detail:	Pasteurella skyensis		
Movement Records			
1. Movement records available for inspection?	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
2. Date of last inspection:		25/04/2018	
3. Are records complete and correctly entered?	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
4. Are movement records available for dead fish and waste?	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
5. Are records complete and correctly entered?	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
6. Are health certificates for introductions (outwith GB) available?	<input checked="" type="checkbox"/>		N/A
Transport Records			
1. Are any movements carried out by (or on behalf) of the business (not using a STB)?	<input type="checkbox"/>		
If yes, is there a system in place for maintenance of transportation records?	<input type="checkbox"/>		
Mortality Records			
1. Mortality records available for inspection?	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
2. How are mortalities disposed of?		Whole fish - Dundas Chemicals	
If other detail:	Mortality waste also taken to Energen Biogas, Cumbernauld		
3. Mortality records complete and correctly entered?	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
4. Recent mortality (last 4 wks):	w/b 23/09/19 - 1826 (0.2%), w/b 30/09/19 - 17,194 (2.58%), w/b 07/10/19 - 75,827 (10.38%), w/b 14/10/19 - 35,340 (3.44%) - mortalities attributed to pasteurella skyensis		
5. Evidence of recent increased/atypical mortalities?	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
If yes, facility nos/no mortality per facility/no stock per facility/reason:	w/b 30/09/19: cage 2 - 11056. w/b 07/10/19: cage 2 - 17900, cage 4 - 19130, cage 6 - 8900, cage 7 - 12530, cage 8, 10500. w/b 14/10/19: cage 2 - 1980, cage 4 - 2800, cage 5 - 9600, cage 6 - 4000, cage 8 10800.		
6. Any other peaks in mortality during period checked?	<input type="checkbox"/>		<input type="checkbox"/>
If yes, detail:			
7. Have increased (unexplained) mortalities been reported to vet or FHI?	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
If yes, detail action:	Vets attended site, antibiotic prescribed. Worst affected cages have been harvested out.		
8. Have 'mortality events' been reported to FHI? If no, add MRT case and enter on mortality events sheet.	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>

1. Recent treatments (last 4 wks)? Y
 If yes, detail: T.M.S., Oxytetracycline
 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)? T.M.S., Oxytetracycline
 If other, detail:
 6. Are medicines stored appropriately? Y

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).
 Positive results for pasteurilla skyensis and CMS, recent mortality attributed to pasteurilla skyensis
 Records checked between: 25/04/2018 - 22/10/2019

Case No: 2019-0619 Date of visit: 22/10/2019
 Site No: FS0413 Inspector:

Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp
MG_IHN	0/1	01/11/2019	<input type="checkbox"/>	08/11/2019	<input type="checkbox"/>	05/12/2019	<input type="checkbox"/>	<input type="checkbox"/>
MG_IPN	0/1	01/11/2019	<input type="checkbox"/>	08/11/2019	<input type="checkbox"/>	05/12/2019	<input type="checkbox"/>	<input type="checkbox"/>
MG_ISA	0/1	01/11/2019	<input type="checkbox"/>	08/11/2019	<input type="checkbox"/>	05/12/2019	<input type="checkbox"/>	<input type="checkbox"/>
MG_SAV	0/1	01/11/2019	<input type="checkbox"/>	08/11/2019	<input type="checkbox"/>	05/12/2019	<input type="checkbox"/>	<input type="checkbox"/>
MG_VHS	0/1	01/11/2019	<input type="checkbox"/>	08/11/2019	<input type="checkbox"/>	05/12/2019	<input type="checkbox"/>	<input type="checkbox"/>
BACT_VSPE	5/5	08/11/2019	<input type="checkbox"/>	08/11/2019	<input type="checkbox"/>	05/12/2019	<input type="checkbox"/>	<input type="checkbox"/>
BACT_NSIG	3/5	08/11/2019	<input type="checkbox"/>	08/11/2019	<input type="checkbox"/>	05/12/2019	<input type="checkbox"/>	<input type="checkbox"/>
BACT_PASS	5/5	08/11/2019	<input type="checkbox"/>	08/11/2019	<input type="checkbox"/>	05/12/2019	<input type="checkbox"/>	<input type="checkbox"/>
HIST_SPAT	5/5	25/11/2019	<input type="checkbox"/>	25/11/2019	<input type="checkbox"/>	05/12/2019	<input type="checkbox"/>	<input type="checkbox"/>
HIST_AMGD	1/5	25/11/2019	<input type="checkbox"/>	25/11/2019	<input type="checkbox"/>	05/12/2019	<input type="checkbox"/>	<input type="checkbox"/>
HIST_CGDH	3/5	25/11/2019	<input type="checkbox"/>	25/11/2019	<input type="checkbox"/>	05/12/2019	<input type="checkbox"/>	<input type="checkbox"/>
HIST_EPIT	1/5	25/11/2019	<input type="checkbox"/>	25/11/2019	<input type="checkbox"/>	05/12/2019	<input type="checkbox"/>	<input type="checkbox"/>
HIST_GPAT	3/5	25/11/2019	<input type="checkbox"/>	25/11/2019	<input type="checkbox"/>	05/12/2019	<input type="checkbox"/>	<input type="checkbox"/>
HIST_KPAT	4/5	25/11/2019	<input type="checkbox"/>	25/11/2019	<input type="checkbox"/>	05/12/2019	<input type="checkbox"/>	<input type="checkbox"/>
HIST_PMCH	5/5	25/11/2019	<input type="checkbox"/>	25/11/2019	<input type="checkbox"/>	05/12/2019	<input type="checkbox"/>	<input type="checkbox"/>
HIST_PASS	3/5	25/11/2019	<input type="checkbox"/>	25/11/2019	<input type="checkbox"/>	05/12/2019	<input type="checkbox"/>	<input type="checkbox"/>

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

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NO	FB0119	DATE OF VISIT	22/10/2019
SITE NO	FS0413	SITE NAME	Camas Glas
INSPECTOR	██████████	CASE NO	20190619

Section 1: Summary

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

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

Section 2: Case Detail

Observations

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

R09

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

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

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

Photos p49: <https://www2.gov.scot/Resource/0054/00549141.pdf>



p55:

Case No:	2019-0620	Date of visit:	23/10/2019
Time spent on site:	3 hours	Main Inspector:	
Site No:	FS0776	Site Name:	Loch nan Losghainn Mhor
Business No:	FB0134	Business Name:	Kames Fish Farming Ltd
Case Types:	1 ECI	2 CNI	3
Water Temp (°C):	9.3	Thermometer No:	T153
Observations:	Region: ST	Water type: F	FHI 045 completed
Dead/weak/abnormally behaving fish present?	<input type="checkbox"/>	If yes, see additional information/clinical score sheet.	
Clinical signs of disease observed?	<input type="checkbox"/>	If yes, see additional information/clinical score sheet.	
Gross pathology observed?	<input type="checkbox"/>	If yes, see additional information/clinical score sheet.	
Diagnostic samples taken?	<input type="checkbox"/>		

Additional Case Information:

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

Mortality Records	
1. Mortality records available for inspection?	<input type="checkbox"/> Y
2. How are mortalities disposed of?	Ensiled - on site
If other detail:	Ensiled at Kames shore base
3. Mortality records complete and correctly entered?	<input type="checkbox"/> Y
4. Recent mortality (last 4 wks):	Up to 40-50 fish per cage per week but often less and often single figures per day
5. Evidence of recent increased/atypical mortalities?	<input type="checkbox"/> N
If yes, facility nos/no mortality per facility/no stock per facility/reason:	
6. Any other peaks in mortality during period checked?	<input type="checkbox"/> Y
If yes, detail:	Peak in mortality in September following vaccination loss of 2,000 plus fish in 3 week period - attributed to handling mortalities
7. Have increased (unexplained) mortalities been reported to vet or FHI?	<input type="checkbox"/> Y
If yes, detail action:	Veterinary visits conducted. Suggested bacterial septicaemia 19 September, suggested furunculosis - 30% mortalities with clinical signs 39 morts on 19th. Skin haemorrhages and changes in internal organs associated with bacterial septicaemia. Additional vet visits 4/10 revealed no bacterial septicaemia coinciding with lower mortalities.
8. Have 'mortality events' been reported to FHI? If no, add MRT case and enter on mortality events sheet.	<input type="checkbox"/> N/A

1. Recent treatments (last 4 wks)?	<input type="checkbox"/> Y
If yes, detail:	Oxytetracycline
	Aquatet - started 22 Sept finished 1 October 2019. All cages for furunculosis
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)?	Oxytetracycline
If other, detail:	
6. Are medicines stored appropriately?	<input type="checkbox"/> Y

p82:

Case No:	2019-0624		Date of visit:	23/10/2019	
Time spent on site:	3 hours		Main Inspector:	[REDACTED]	
Site No:	FS0629	Site Name:	Poll Na Gille		
Business No:	FB0119	Business Name:	Mowi Scotland Ltd		
Case Types:	1 REP	2 DIA	3	4	5
Water Temp (°C):	13.2	Thermometer No:	T147	FHI 045 completed	
Observations:	Region:	ST	Water type:	S	CoGP MA M-40
Dead/weak/abnormally behaving fish present?	<input checked="" type="checkbox"/>	If yes, see additional information/clinical score sheet.			
Clinical signs of disease observed?	<input checked="" type="checkbox"/>	If yes, see additional information/clinical score sheet.			
Gross pathology observed?	<input checked="" type="checkbox"/>	If yes, see additional information/clinical score sheet.			
Diagnostic samples taken?	<input checked="" type="checkbox"/>				

Additional Case Information:

Site inspected following report of increased mortality by business

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

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

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

Recent (last 4 wks) disease problems?	<input checked="" type="checkbox"/>	Any escapes (since last visit)?	<input type="checkbox"/>
If yes, detail:	Anaemia, complex gill disease, suspected pasteurella skyensis, CMS		
Movement Records			
1. Movement records available for inspection?	<input type="checkbox"/>		<input type="checkbox"/>
2. Date of last inspection:		19/09/2019	
3. Are records complete and correctly entered?	<input type="checkbox"/>		<input type="checkbox"/>
4. Are movement records available for dead fish and waste?	<input type="checkbox"/>		<input type="checkbox"/>
5. Are records complete and correctly entered?	<input type="checkbox"/>		<input type="checkbox"/>
6. Are health certificates for introductions (outwith GB) available?	<input type="checkbox"/>		N/A
Transport Records			
1. Are any movements carried out by (or on behalf) of the business (not using a STB)?	<input type="checkbox"/>		
If yes, is there a system in place for maintenance of transportation records?	<input type="checkbox"/>		
Mortality Records			
1. Mortality records available for inspection?	<input type="checkbox"/>		<input type="checkbox"/>
2. How are mortalities disposed of?		Whole fish - Dundas Chemicals	
If other detail:	Mortality waste also taken to Energen Biogas, Cumbernauld		
3. Mortality records complete and correctly entered?	<input type="checkbox"/>		<input type="checkbox"/>
4. Recent mortality (last 4 wks):	w/b 23/09/19 - 5255 (0.89%), w/b 30/09/19 - 6079 (1.1%), w/b 07/10/19 - 21613 (4.08%), w/b 14/10/19 - 49795 (10.11%). Increase mortality attributed to a combination of complex gill disease, anaemia and suspected pasteurella skyensis, all cages affected.		
5. Evidence of recent increased/atypical mortalities?	<input type="checkbox"/>		<input type="checkbox"/>
If yes, facility nos/no mortality per facility/no stock per facility/reason:	See above		
6. Any other peaks in mortality during period checked?	<input type="checkbox"/>		<input type="checkbox"/>
If yes, detail:			
7. Have increased (unexplained) mortalities been reported to vet or FHI?	<input type="checkbox"/>		<input type="checkbox"/>
If yes, detail action:	Vets have attended site and samples taken. Site harvesting out, due to fallow by end of October.		
8. Have 'mortality events' been reported to FHI? If no, add MRT case and enter on mortality events sheet.	<input type="checkbox"/>		<input type="checkbox"/>

1. Recent treatments (last 4 wks)? Y
 If yes, detail: T.M.S., Salmosan
 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)? T.M.S., Salmosan
 If other, detail:
 6. Are medicines stored appropriately? Y

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).
 suspected bacterial infection, likely pasteurella skyensis. Anaemia the most likely cause of increased mortality.
 Records checked between: 19/09/2019 - 23/10/2019

Case no: 2019-0624 Site No: FS0629 Method of killing:
 Date of visit: 23/10/2019 Inspector(s): Sheet Relevant: Y

\$ for strong presence: M for medium presence: W for weak presence

Fish Number	F1	F2	F3	F4	F5					
Time sampled after death (if > 45 minutes)	90 min	90 mins	90 mins	90 mins	90 mins					
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									
	Enophthalmic (sunken)									
	Cataract									
	Haemorrhagic									
Gills	Pale	M	M	M	M	M				
	Zoned									
	Necrotic									
Lesions	Flank									
	Elsewhere									
Vent	Inflamed									
	Trailing faeces									
Lice Load	Estimate numbers	~15	~15	~15	~15	~15				
Internal Signs										
Ascites	Clear	M	M	M	M	S				
	Bloody									
Oedema	In tissues									
Heart	Pale/anaemic	M	M	M	M	M				

Case No: 2019-0624 Date of visit: 23/10/2019
 Site No: FS0629 Inspector: [REDACTED]

Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp
MG_IHN	0/1	01/11/2019		08/11/2019		05/12/2019		
MG_IPN	0/1	01/11/2019		08/11/2019		05/12/2019		
MG_ISA	0/1	01/11/2019		08/11/2019		05/12/2019		
MG_SAV	0/1	01/11/2019		08/11/2019		05/12/2019		
MG_VHS	0/1	01/11/2019		08/11/2019		05/12/2019		
MG_AGD	5/5	01/11/2019		08/11/2019		05/12/2019		
MG_PARA_THER	5/5	01/11/2019		08/11/2019		05/12/2019		
MGSAL_POX	3/5	01/11/2019		08/11/2019		05/12/2019		
BACT_VSPE	5/5	08/11/2019		08/11/2019		05/12/2019		
BACT_PASS	2/5	08/11/2019		08/11/2019		05/12/2019		
HIST_CGDH	5/5	25/11/2019		25/11/2019		05/12/2019		
HIST_GPAT	5/5	25/11/2019		25/11/2019		05/12/2019		
HIST_PMCH	5/5	25/11/2019		25/11/2019		05/12/2019		
HIST_PASS	1/5	25/11/2019		25/11/2019		05/12/2019		



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

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NO FB0119 **DATE OF VISIT** 23/10/2019
SITE NO FS0629 **SITE NAME** Poll Na Gille
INSPECTOR [REDACTED] **CASE NO** 20190624

Section 1: Summary

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

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

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

Section 2: Case Detail

Observations

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

R09

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Tel - 0131 244 3498 Fax - 0131 244 0944 Email - ms.fishhealth@gov.scot
Website - www.gov.scot/Topics/marine/science

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

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

Results

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

The following bacteria were isolated:

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

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

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

Salmon gillpox virus (SGPV)

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

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

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

Neoparamoeba perurans (AGD)

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

Paranucleospora theridion

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

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

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

Skin & Muscle: Within normal range.

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

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

Pancreas: Within normal range.

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

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

Spleen: Small foci necrosis of (white pulp) .

R09

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

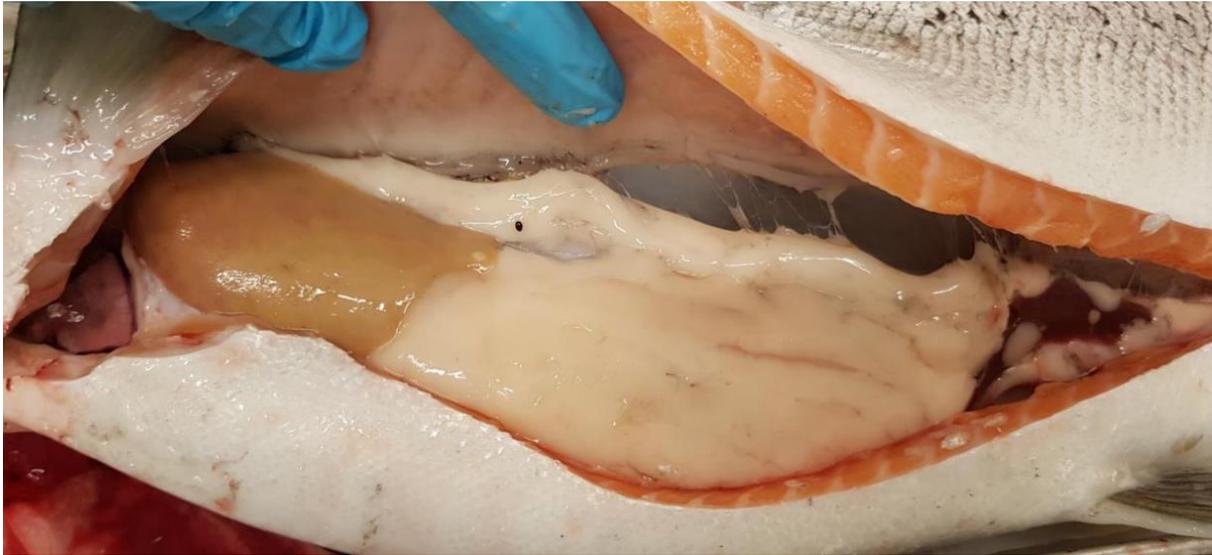
Signed:



Fish Health Inspector

Date: 05/12/2019

Photos p99: <https://www2.gov.scot/Resource/0054/00549141.pdf>



p105:

Case No:	2019-0625	Date of visit:	23/10/2019			
Time spent on site:	3 hours	Main Inspector:				
Site No:	FS0859	Site Name:	Port Na Cro			
Business No:	FB0119	Business Name:	Mowi Scotland Ltd			
Case Types:	1 REP	2 DIA	3	4	5	6
Water Temp (°C):	13.3	Thermometer No:	T147	FHI 045 completed		
Observations:	Region:	ST	Water type:	S	CoGP MA	M-40
Dead/weak/abnormally behaving fish present?	<input checked="" type="checkbox"/>	If yes, see additional information/clinical score sheet.				
Clinical signs of disease observed?	<input checked="" type="checkbox"/>	If yes, see additional information/clinical score sheet.				
Gross pathology observed?	<input checked="" type="checkbox"/>	If yes, see additional information/clinical score sheet.				
Diagnostic samples taken?	<input checked="" type="checkbox"/>					

Additional Case Information:

Site inspected following report of increased mortality from business

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

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

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

Recent (last 4 wks) disease problems?	<input checked="" type="checkbox"/> Y	Any escapes (since last visit)?	<input type="checkbox"/> N
If yes, detail: Anaemia, suspected pasteurilla skyensis			

Movement Records

1. Movement records available for inspection?	<input type="checkbox"/>	<input checked="" type="checkbox"/> Y
2. Date of last inspection:	26/06/2019	<input type="checkbox"/>
3. Are records complete and correctly entered?	<input type="checkbox"/>	<input checked="" type="checkbox"/> Y
4. Are movement records available for dead fish and waste?	<input type="checkbox"/>	<input checked="" type="checkbox"/> Y
5. Are records complete and correctly entered?	<input type="checkbox"/>	<input checked="" type="checkbox"/> Y
6. Are health certificates for introductions (outwith GB) available?	<input type="checkbox"/>	<input type="checkbox"/> N/A

Transport Records

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

Mortality Records

1. Mortality records available for inspection?	<input type="checkbox"/>	<input checked="" type="checkbox"/> Y
2. How are mortalities disposed of?	Whole fish - Dundas Chemicals	
If other detail:	Also taken to Energen Biogas, Cumbernauld	
3. Mortality records complete and correctly entered?	<input type="checkbox"/>	<input checked="" type="checkbox"/> Y

4. Recent mortality (last 4 wks):	w/b 23/09/19 - 2131 (0.83%), w/b 30/09/19 - 1479 (0.58%), w/b 07/10/19 - 6062 (2.4%), w/b 14/10/19 - 14173 (5.62%). Recent increase in mortality attributed to anaemia and suspected pasteurilla skyensis infection. Both remaining stocked cages affected.
-----------------------------------	--

5. Evidence of recent increased/atypical mortalities?	<input type="checkbox"/>	<input checked="" type="checkbox"/> Y
If yes, facility nos/no mortality per facility/no stock per facility/reason:		

See above

6. Any other peaks in mortality during period checked?	<input type="checkbox"/>	<input checked="" type="checkbox"/> Y
--	--------------------------	---------------------------------------

If yes, detail:	w/b 22/07 - 7851 (2.28%), 09/09 - 3369 (1.28%), 16/09 - 3184 (1.23%) - attributed to anaemia
-----------------	---

7. Have increased (unexplained) mortalities been reported to vet or FHI?	<input type="checkbox"/>	<input checked="" type="checkbox"/> Y
--	--------------------------	---------------------------------------

If yes, detail action:	Vets have attended site, samples taken. Site harvesting, due to fallow by end of October
------------------------	---

8. Have 'mortality events' been reported to FHI? If no, add MRT case and enter on mortality events sheet.	<input type="checkbox"/>	<input checked="" type="checkbox"/> Y
---	--------------------------	---------------------------------------

Results of Surveillance

1. Has any animal health surveillance been carried out by, or on behalf of, the business?	<input type="checkbox"/>	<input checked="" type="checkbox"/> Y
2. If yes, are results available for inspection?	<input type="checkbox"/>	<input checked="" type="checkbox"/> Y
3. Any significant results?	<input type="checkbox"/>	<input checked="" type="checkbox"/> Y

If yes, detail (if not detailed under recent disease problems).	Bacteria present in stock on site, likely pasteurilla skyensis, however mortality most likely a result of anaemia
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Bacteria present in stock on site, likely pasteurilla skyensis, however mortality most likely a result of anaemia

Records checked between:	26/06/2019 - 23/10/2019
--------------------------	--------------------------------

Case no: Site No: Method of killing:
 Date of visit: Inspector(s): Sheet Relevant:

\$ for strong presence: M for medium presence: W for weak presence

Fish Number	F1	F2	F3	F4	F5				
Time sampled after death (if > 45 minutes)	90 min	90 mins	90 mins	90 mins	90 mins				
External Signs									
Behaviour	Moribund								
	Lethargic	S	S	S	S	S			
	Hanging vertical								
	Spiralling								
	Flashing								
	Loss of equilibrium								
Body	Dark								
	Distended abdomen		M						
	Anorexic								
	Scale Oedema								
Opercula	Shortened								
	Flared								
Haemorrhaging	Throat								
	Ventrum			M		W			
	Base of fins								
	Elsewhere								
Eyes	Exophthalmic								
	Enophthalmic (sunken)								
	Cataract								
	Haemorrhagic								
Gills	Pale	M	M	M	M	M			
	Zoned								
	Necrotic								
Lesions	Flank								
	Elsewhere								
Vent	Inflamed								
	Trailing faeces								
Lice Load	Estimate numbers	-20	-20	-20	-20	-20			

Additional comments:

F1 and F3 - sea lice damage on head. F1 - heart had fluid filled sac attached. F4 - melanisation of swim bladder and gut.

Case No: Date of visit:
 Site No: Inspector:

Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp
MG_AGD	5/5	28/10/2019		31/10/2019		05/12/2019		
MG_IHN	0/1	28/10/2019		31/10/2019		05/12/2019		
MG_IPN	0/1	28/10/2019		31/10/2019		05/12/2019		
MG_ISA	0/1	28/10/2019		31/10/2019		05/12/2019		
MG_PNST	5/5	28/10/2019		31/10/2019		05/12/2019		
MG_SPVP	5/5	28/10/2019		31/10/2019		05/12/2019		
MG_SAV	0/1	28/10/2019		31/10/2019		05/12/2019		
MG_VHS	0/1	28/10/2019		31/10/2019		05/12/2019		
BACT_VVIS	4/5	08/11/2019		08/11/2019		05/12/2019		
BACT_VSPE	4/5	08/11/2019		08/11/2019		05/12/2019		
BACT_PASS	4/5	08/11/2019		08/11/2019		05/12/2019		
HIST_AMGD	3/5	02/12/2019		02/12/2019		05/12/2019		
HIST_GPAT	5/5	02/12/2019		02/12/2019		05/12/2019		
HIST_CGDH	5/5	02/12/2019		02/12/2019		05/12/2019		
HIST_EPIT	1/5	02/12/2019		02/12/2019		05/12/2019		
HIST_KPAT	4/5	02/12/2019		02/12/2019		05/12/2019		
HIST_SPAT	3/5	02/12/2019		02/12/2019		05/12/2019		



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FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NO	FB0119	DATE OF VISIT	23/10/2019
SITE NO	FS0859	SITE NAME	Port Na Cro
INSPECTOR	██████████	CASE NO	20190625

Section 1: Summary Section 1: Summary

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

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

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

Section 2: Case Detail

Observations

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

R09

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

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

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

Results

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

The following bacteria were isolated:

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

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

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

Salmon gillpox virus (SGPV)

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

R09

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

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	22.66	29.27	29.25	29.15	POSITIVE
F2	22.97	32.17	32.25	32.18	POSITIVE
F3	22.23	29.99	29.86	29.90	POSITIVE
F4	22.37	28.53	28.55	28.46	POSITIVE
F5	22.54	31.73	31.52	31.54	POSITIVE

Paranucleospora theridion

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

Photos p121:







[Cases 20190636-20190656](#)

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p4:

Case No:	2019-0639		Date of visit:	30/10/2019	
Time spent on site:	5.5 hrs		Main Inspector:	[REDACTED]	
Site No:	FS1084	Site Name:	Isle Ewe		
Business No:	FB0119	Business Name:	Mowi Scotland Ltd		
Case Types:	1 ECI	2 CNI	3 SLI	4 VMD	5 [REDACTED] 6 [REDACTED]
Water Temp (°C):	11	Thermometer No:	T148	FHI 045 completed	[REDACTED]
Observations:	Region:	HI	Water type:	S	CoGP MA M-15
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				

Additional Case Information:

Fish on site appeared in good condition on inspection. Staying low in water but coming up for feed. Showing normal behaviour. Lice skirts present on site to aid control of sea lice levels. Fish sampled for VMD appeared healthy internally, all feeding well. Once site is fallow unsure if site will be used again.

Wild wrasse from introduced to site 20/05/2019 and again on the 21/10/2019. Movement records of cleanerfish kept separate from salmon movement records. Wrasse fed medicated feed (florocol) over a 10 day period beginning on 15/09/2019. Withdrawal period stated as N/A on prescription as cleaner fish not desired for human consumption.

Mortality peaks noted in previous cycle. 17/09/18 - 23/09 (3057, 1.36%), 22/10/18 - 28/10/18 (7382, 3.4%), 5/11/18 - 11/11/18 (6679, 3.24%) and 12/11/18 - 18/11/18 (4852, 2.4%), no specific pens affected. CMS and gill anaemia gradually worked its way around entire site. Site also affected by plankton insult. These had already been reported to FHI.

Mortality Records	
1. Mortality records available for inspection?	[REDACTED] Y
2. How are mortalities disposed of?	Ensiled - on site
If other detail:	[REDACTED]
3. Mortality records complete and correctly entered?	[REDACTED] Y
4. Recent mortality (last 4 wks):	30/09 (344,0.126%), 7/10 (392,0.143%), 14/10 (790,0.289%), 21/10 (1004,0.397%)
5. Evidence of recent increased/atypical mortalities?	[REDACTED] N
If yes, facility nos/no mortality per facility/no stock per facility/reason:	[REDACTED]
6. Any other peaks in mortality during period checked?	[REDACTED] Y
If yes, detail:	see additional information
7. Have increased (unexplained) mortalities been reported to vet or FHI?	[REDACTED] Y
If yes, detail action:	Fish harvested
8. Have 'mortality events' been reported to FHI? If no, add MRT case and enter on mortality events sheet.	[REDACTED] Y

Case No:	2019-0652	Date of visit:	30/10/2019			
Time spent on site:	6 hours	Main Inspector:				
Site No:	FS0752	Site Name:	Taranaish			
Business No:	FB0169	Business Name:	The Scottish Salmon Company			
Case Types:	1 ECI	2 CNI	3 SLI	4 VMD	5	6
Water Temp (°C):	10.7	Thermometer No:	T147	FHI 045 completed		
Observations:	Region:	WI	Water type:	S	CoGP MA	W-1
Dead/weak/abnormally behaving fish present?	<input type="checkbox"/> N	If yes, see additional information/clinical score sheet.				
Clinical signs of disease observed?	<input type="checkbox"/> N	If yes, see additional information/clinical score sheet.				
Gross pathology observed?	<input type="checkbox"/> N	If yes, see additional information/clinical score sheet.				
Diagnostic samples taken?	<input type="checkbox"/> N					

Additional Case Information:

Medium to heavy fouling on some of the nets. Net cleaner currently on site making its way around all the cages.

Fish looked healthy and feeding very well

All fish sampled for VMD appeared healthy showing no signs of disease.

Inspection and VMD sampling carried out by [redacted] supervised by [redacted]

Mortality Records	
1. Mortality records available for inspection?	<input type="checkbox"/> Y
2. How are mortalities disposed of?	Other (detail)
If other detail:	White shore cockles
3. Mortality records complete and correctly entered?	<input type="checkbox"/> Y
4. Recent mortality (last 4 wks):	wk40(1067-0.12%)wk41(1558-0.18%)wk42(1044-0.12%)wk43(2343-0.35%)
5. Evidence of recent increased/atypical mortalities?	<input type="checkbox"/> N
If yes, facility nos/no mortality per facility/no stock per facility/reason:	
6. Any other peaks in mortality during period checked?	<input type="checkbox"/> Y
If yes, detail:	Post treatment mortality, worst in 9, 11, 10, 14. Peroxide treatment. 39460 (4.37%) fish lost.
7. Have increased (unexplained) mortalities been reported to vet or FHI?	<input type="checkbox"/> Y
If yes, detail action:	Reported to FHI, morts fell down week following to 0.13%
8. Have 'mortality events' been reported to FHI? If no, add MRT case and enter on mortality events sheet.	<input type="checkbox"/> Y

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 present in low levels.
Records checked between:	
07/08/2018-30/10/2019	

September 2019:



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Case No:	2019-0491	Date of visit:	10/09/2019
Time spent on site:	4 hours	Main Inspector:	
Site No:	FS0804	Site Name:	Kishorn B (North)
Business No:	FB0125	Business Name:	Scottish Sea Farms Ltd
Case Types:	1 DIA	2 REP	3
Water Temp (°C):	13.2	Thermometer No:	T146
Observations:	Region: HI	Water type: S	FHI 045 completed
Dead/weak/abnormally behaving fish present?	<input type="checkbox"/>	If yes, see additional information/clinical score sheet.	
Clinical signs of disease observed?	<input type="checkbox"/>	If yes, see additional information/clinical score sheet.	
Gross pathology observed?	<input type="checkbox"/>	If yes, see additional information/clinical score sheet.	
Diagnostic samples taken?	<input type="checkbox"/>		

Additional Case Information:

Visit conducted following reported mort events; wk24 - 1.14% CGI; wk32 - 2.5% CGI, wk33 4.12% CMS and post treatment, Thermolicer.

Weather conditions very poor. Only able to get onto one cage before having to come ashore. Computer network down so unable to view paper work. Information collected verbally. Fish observed in cage with white heads.

Lice levels are high and a salmosan treatment is planned for Thursday for cages 6, 8 and 15. Rest of cages on harvest plan

Last week mort figures have come down a bit.

Last lice count for the site; Verbally around 7 adult females for last lice count.

SLICE treatment last week. Finished on Sunday

Wrasse on site not proving effective. Stocked at 5%. Wild wrasse on site.

p86

Case No:	2019-0495	Date of visit:	11/09/2019
Time spent on site:	2 hours	Main Inspector:	
Site No:	FS0941	Site Name:	FAI Aultbea
Business No:	FB0439	Business Name:	FAI Aquaculture Ltd

All lumps that were on site were grown on from fry from Iceland.

Lumpfish mortality had been high due to secondary bacterial infections, vibrio ordalii. Lumpfish treated with florical and bransil. October lost 110000 out of 147471 input. During vaccination the vaccine included baytril a short term antibiotic. Administered under cascade system. Vaccines; vibrio ordalii, Pseudomonas anguilliseptica and Pasteurella sp., Furunculosis. Lumps need to be 10g before vaccine. Succumbing to vibrio before that.

Mortality Records	
1. Mortality records available for inspection?	<input type="checkbox"/> Y
2. How are mortalities disposed of?	Other (detail)
If other detail:	frozen on site
3. Mortality records complete and correctly entered?	<input type="checkbox"/> Y
4. Recent mortality (last 4 wks):	2 morts in September, 54 in August.
5. Evidence of recent increased/atypical mortalities?	<input type="checkbox"/> N
If yes, facility nos/no mortality per facility/no stock per facility/reason:	
6. Any other peaks in mortality during period checked?	<input type="checkbox"/> Y
If yes, detail:	lump fish issues with 2nd bacterial infections August 2018. Small fish 72,000 morts out of 291642 from batch 4 and batch 5 42000 morts out of 358000 input. Florical treatments.
7. Have increased (unexplained) mortalities been reported to vet or FHI?	<input type="checkbox"/> Y
If yes, detail action:	treatment in lumps
8. Have 'mortality events' been reported to FHI? If no, add MRT case and enter on mortality events sheet.	<input type="checkbox"/> N/A

p95:

Case No:	2019-0498	Date of visit:	12/09/2019
Time spent on site:	4 hours	Main Inspector:	
Site No:	FS0068	Site Name:	Calva Bay (Calbha Beag)
Business No:	FB0398	Business Name:	Loch Duart Ltd
Case Types:	1 <input type="checkbox"/> DIA	2 <input type="checkbox"/> REP	3 <input type="checkbox"/>
Water Temp (°C):	13.5	Thermometer No:	T146
Observations:	Region: HI	FHI 045 completed	<input type="checkbox"/>
Dead/weak/abnormally behaving fish present?	<input type="checkbox"/> Y	If yes, see additional information/clinical score sheet.	
Clinical signs of disease observed?	<input type="checkbox"/> Y	If yes, see additional information/clinical score sheet.	
Gross pathology observed?	<input type="checkbox"/> Y	If yes, see additional information/clinical score sheet.	
Diagnostic samples taken?	<input type="checkbox"/> Y		

Additional Case Information:

Visit conducted following reported Mort events
 WK 19/8/19-25/8/19 - morts for site; 2.02% (3793 fish) -environmental phytoplankton/ gill disease
 WK 26/8/19- 1/9/19 - 5.83% (10710 fish) - phytoplankton/ gill disease
 WK 36 - 8.28% - 14309 - phytoplankton/ gill disease
 Wk 37 - current week 3.4% (Monday to Wed)

Fish vet group visit; 30/8/19- conclusion; compromised gill health primarily due to AGD.

Plankton bloom 6/8/19 and 14/8/19 peaks. Pseudo-nitzschia, and crenia

Mort removal; DK waste remove skip of dead fish for composting - south of England

Peak in morts; pen 10; 25.89% lost wk33 to wk36 - now harvested out. Pen 11 peak wk36 at 17.77% lost (12400 fish in pen).

Raised morts also being observed at adjacent site, Badcall Bay. This site was stocked from Calva Bay in May 2019. These figures have been reported to the FHI.

No reported mortality issues in the wrasse on site.

On site inspection very few "moribund" fish observed in the cages. Many dead being removed from the dead socks and population of fish swimming slowly in the cages.

p128:

Case No:	2019-0506	Date of visit:	17/09/2019
Time spent on site:	4 hours	Main Inspector:	
Site No:	FS0106	Site Name:	Allt Mhor
Business No:	FB0071	Business Name:	JS Salmon Ltd

Additional Case Information:

Water was very murky so difficult to observe fish. No moribunds or damaged fish observed across the stocked tanks.

Kames has employed a new site manager to take over most responsibilities from the previous owner.

Some records were missing from the mortality data. Several weeks worth of mortality data were missing. Week 23/24 2019. In the movement records there were detailed as being a mortality event of 30000 fish due to water draining from tanks. The corresponding mortality records for this week were not available for inspection. The site manager is going to locate the records and send them on for FHI to inspect. This was not reported to FHI as it was below the 3% threshold required, to report for the size fish. This will be confirmed upon receipt of mortality records.

Recent mortality has been very low with no notable health issues with fish stocked on site.

Site has regular issues with mink and otters preying on the salmon. They protect the site with electric fences and tank covers as well as daily checks and repairs to all fences and sheds.

Treatment records for the use of TMS were not available for inspection.

Inspection and paperwork carried out by [REDACTED] supervised by [REDACTED]

p136:

Mortality records:

Mortality records were not maintained correctly, records from 3/6/2019 to 16/6/2019 were missing from the records. It was understood that they had been misplaced however, these records should be located and copies provided.

These must be addressed to ensure the conditions of authorisation for your Aquaculture Production Business (APB) are being met. Records or documentation demonstrating that these points have been addressed should be sent to the Fish Health Inspectorate (contact details below) within 30 days of the date this report was issued.

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p24:

Case No:	2019-0512	Date of visit:	18/09/2019
Time spent on site:	2h	Main Inspector:	
Site No:	FS1306	Site Name:	Machrihanish Hanger
Business No:	FB0565	Business Name:	NIRI Scotland Ltd

Additional Case Information:

40 000 fish planned for input in 2020 (early)

3x Ten tonne containers of ensiled morts left from last cycle. However 2 of them have been emptied, since owner was away only one remains. Complaints from neighbours about the smell. Manager does not know where the waste has gone.

Site is currently fallow. No fish on site since 2016, but plans to restock.

There was a big issue with sludge build up at bottom of tank, which couldn't be removed this was problematic to fish health

Biosecurity measures plan needs to be submitted. Advice will be given to inspect before restocking.

Site is no longer operated by NIRI, business transfer paperwork is to be completed by operator.

Inspection and paperwork carried out by [redacted] supervised by [redacted]

p32:

Case No:	2019-0513	Date of visit:	19/09/2019
Time spent on site:	7h	Main Inspector:	
Site No:	FS0629	Site Name:	Poll Na Gille
Business No:	FB0119	Business Name:	Mowi Scotland Ltd
Case Types:	1 ECI	2 CNI	3 SLI
	4 VMD	5 DIA	6
Water Temp (°C):	13.9	Thermometer No:	T173
		FHI 045 completed	
Observations:	Region: ST	Water type: S	CoGP MA M-40
Dead/weak/abnormally behaving fish present?	<input checked="" type="checkbox"/>	If yes, see additional information/clinical score sheet.	
Clinical signs of disease observed?	<input checked="" type="checkbox"/>	If yes, see additional information/clinical score sheet.	
Gross pathology observed?	<input checked="" type="checkbox"/>	If yes, see additional information/clinical score sheet.	
Diagnostic samples taken?	<input checked="" type="checkbox"/>		

Additional Case Information:

Lump fish were culled over week 36 (11,733 - 27.59%) and 37 (27733 - 89.69%) during hydrolicer treatments, this was due to lumpfish not doing well in the pens and suffering from bacteria infection and poor gill health. There are only 3189 lumpfish left on the site.

Mowi sites in area in regular contact with Kames farms within management area and they share treatment boats and do synchronised bath treatments and slice treatments.

Sea lice was recorded at being 2.5 adult females per fish in week 38 of 2019, this was reported to the FHI and was brought back down the following week after treatments using an optilicer.

During the inspection moribund salmon were observed in pens 9, 13 and 16. Fish were removed for diagnostic sampling.

Inspection and paperwork was carried out by [redacted] supervised by [redacted]

Recent (last 4 wks) disease problems?	Y	Any escapes (since last visit)?	N
If yes, detail:	Anaemia, HSMI		
Movement Records			
1. Movement records available for inspection?			<input checked="" type="checkbox"/>
2. Date of last inspection:	19/11/2017		
3. Are records complete and correctly entered?			<input checked="" type="checkbox"/>
4. Are movement records available for dead fish and waste?			<input checked="" type="checkbox"/>
5. Are records complete and correctly entered?			<input checked="" type="checkbox"/>
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)?			N
If yes, is there a system in place for maintenance of transportation records?			
Mortality Records			
1. Mortality records available for inspection?			<input checked="" type="checkbox"/>
2. How are mortalities disposed of?	Whole fish - Dundas Chemicals		
If other detail:			
3. Mortality records complete and correctly entered?			<input checked="" type="checkbox"/>
4. Recent mortality (last 4 wks):	wk37(27665 - 4.21%)wk36(9362 1.30%)wk35(5563 0.73%)wk34(1089 - 0.14%)		
5. Evidence of recent increased/atypical mortalities?			<input checked="" type="checkbox"/>
If yes, facility nos/no mortality per facility/no stock per facility/reason:	All pens. Issues with plankton bloom, damaged gills. Site had large mortality but now returned to normal levels.		
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, add MRT case and enter on mortality events sheet.			<input checked="" type="checkbox"/>

Results of Surveillance

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

	Y
	Y
	Y

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

Bleeding gills observed during treatment

Some grazing damage from lice observed. Fish anaemia found from blood analysis. No AGD, PGD gill scores of 2-4 HSMI was confirmed on site in May, CMS was not detected.

Records checked between:

29/11/17-19/09/19

photos - p52:



p103:

Case No:	2019-0529	Date of visit:	24/09/2019
Time spent on site:	4.5 hours	Main Inspector:	
Site No:	FS0252	Site Name:	Cairidh
Business No:	FB0119	Business Name:	Mowi Scotland Ltd

Additional Case Information:

Previous cycle fallow date - 18/08/19, site was then stocked with fish from Rum 21/08/19 - 31/08/19. As the site was not fallow for a minimum period of 4 weeks as recommended in the Scottish finfish Aquaculture Code of Good Practice (CoGP), the site has been listed as practices not in accordance with the CoGP in the surveillance frequency section of this case sheet.

Risk assessment (RA) in place for the movement of 206,000 salmon from Rum to Cairidh (between management areas, RA stated that lice levels were low and no signs of AGD. Confirmed presence of PRV (HSMI), PCMV (CMS), Paranucleospora and Yersinia, however these were not leading in clinical signs in fish prior to transfer. RA states previous stock at Cairidh was of a similar or lesser disease status. RA notes Cairidh is in a farm management area with 4 sites, two of which are stocked, no reference given to the health status of the fish stocked on those sites.

Vets attended site on 28/08/19 after site was restocked, pcr samples for PD carried out, returned negative.

Prior to inspection of the site, FHI were made aware that mortality waste from Cairidh, had been spilled on the A86 (near Wolftrax) during transport of waste to Dundas Chemicals in a Gogar services vehicle. Mowi had requested a documented incident investigation to be carried out by Gogar Services, a documented report was sent to Mowi on 24/09/19 and was made available for inspection. Document stated the spill of fish was caused by the driver braking hard having attempted to overtake cyclists when oncoming traffic required the driver to brake sharply. Fish spilled from the trailer over the front of the vehicle. Gogar Services sent a clean-up team to the incident location. Spilled fish were cleared from the road and then loaded into a sealed skip. Road surface was cleaned with degreaser agent and water. BEAR Scotland then laid down approx 7 tonnes of salt over the spill area of the road. Some fish remained at the side of the road, due to poor light the clean-up resumed the following day using a liquid ring tanker to suck up the fish from the side of the road. All fish waste material was then taken to Dundas Chemicals for disposal. SEPA attended incident site and were satisfied no waste would have entered any watercourse. Following the incident Gogar has stated that all trailers used for transporting mortality waste will be fitted with splash plates at the front and back of trailers. Plates will be made from aluminium sheets which will extend four feet back over the top of the load area, the intention is that any wash from heavy braking will be directed back into the load area. APHA and Mowi have reviewed the actions as satisfactory.

Recent (last 4 wks) disease problems?	Y	Any escapes (since last visit)?	N
If yes, detail:	CMS, anaemia		
Movement Records			
1. Movement records available for inspection?			Y
2. Date of last inspection:	17/05/2017		
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?	Whole fish - Dundas Chemicals		
If other detail:			
3. Mortality records complete and correctly entered?			Y
4. Recent mortality (last 4 wks):	11433 across site, 7818 attributed to anaemia, the remainder attributed to physical damage or unknown cause.		
5. Evidence of recent increased/atypical mortalities?			Y
If yes, facility nos/no mortality per facility/no stock per facility/reason:	w/b 02/09/2019 - 4654 (3.36%), 09/09/2019 - 5398 (4.03%), w/b 16/09/19 - 217 (1.18%)		
6. Any other peaks in mortality during period checked?			Y
If yes, detail:	w/b 29/07/19 1.55% , w/b 05/08/19 1.55% attributed to CMS.		
7. Have increased (unexplained) mortalities been reported to vet or FHI?			Y
If yes, detail action:	Reported to FHI		
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., Salmosan	
If other, detail:		
2. Medicines records available for inspection?	<input type="checkbox"/>	Y
3. Are records complete and correctly entered?	<input type="checkbox"/>	Y
4. Are fish in a withdrawal period?	<input type="checkbox"/>	Y
5. If yes, what treatment(s)?	T.M.S.	
If other, detail:		
6. Are medicines stored appropriately?	<input type="checkbox"/>	Y
Biosecurity Records		
1. Biosecurity records available for inspection?	<input type="checkbox"/>	Y
2. Has the manner and frequency of mortality removal, recording and safe disposal been considered?	<input type="checkbox"/>	Y
3. Has the manner and period in which the APB will notify Scottish Ministers or veterinary professional of any increased (unexplained) mortality at the site been included?	<input type="checkbox"/>	Y
4. Has the action that will be taken in the event that the presence or suspicion of the presence of a listed disease is detected been included and <i>how</i> and <i>when</i> that will be notified to Scottish Ministers?	<input type="checkbox"/>	Y
5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or higher health status, certification if required)?	<input type="checkbox"/>	Y
6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minimise transmission of disease been covered (movement of staff, visitors, equipment, live or dead fish etc.)?	<input type="checkbox"/>	Y
7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals held on site?	<input type="checkbox"/>	Y
8. Have the biosecurity procedures been adequately implemented on site?	<input type="checkbox"/>	N
If no, detail:	BMP states pens and equipment to be disinfected during fallow period prior to restocking, this did not take place in period between previous and current cycles.	

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

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

The biosecurity measures plan stated that pens and equipment are to be disinfected during fallow period prior to restocking, this did not take place in period between previous and current cycles. Site manager advised that biosecurity protocols should be followed as described in BMP. No further action required.

p117:

Case No:	2019-0530	Date of visit:	25/09/2019
Time spent on site:	3 hours	Main Inspector:	
Site No:	FS1330	Site Name:	Sconser Quarry
Business No:	FB0119	Business Name:	Mowi Scotland Ltd
Case Types:	1 <input type="checkbox"/> ECI	2 <input type="checkbox"/> CNI	3 <input type="checkbox"/> SLI
	4 <input type="checkbox"/> VMD	5 <input type="checkbox"/>	6 <input type="checkbox"/>
Water Temp (°C):	13	Thermometer No:	T147
		FHI 045 completed	<input type="checkbox"/>
Observations:	Region: HI	Water type: S	CoGP MA M-28
Dead/weak/abnormally behaving fish present?	<input type="checkbox"/> Y	If yes, see additional information/clinical score sheet.	
Clinical signs of disease observed?	<input type="checkbox"/> N	If yes, see additional information/clinical score sheet.	
Gross pathology observed?	<input type="checkbox"/> N	If yes, see additional information/clinical score sheet.	
Diagnostic samples taken?	<input type="checkbox"/> N		

Additional Case Information:

10 cages on site, additional 2 cages to be put in place for next production cycle

Salmon brought on site from Sconser, Maol Ban and Cairidh (all sites share same farm management area with Sconser Quarry).

Lumpfish brought on site from Ocean Matters and CEFAS, site manager unsure of exact number of lumpfish that remain on site.

Possible bacterial infection observed in fish sampled during company biologist visit to site on 14/08/19, however results of blood serum samples taken were negative.

w/b 09/09/2019 adult female lice average of 3.01, optilicer treatment took place during same week, w/b 16/09/2019 adult female lice average dropped to 0.57.

2 morts removed from site during inspection, no moribund or lethargic fish observed.

Recent (last 4 wks) disease problems?	Y	Any escapes (since last visit)?	N
If yes, detail:	AGD, PGD		
Movement Records			
1. Movement records available for inspection?			Y
2. Date of last inspection:	First inspection		
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?	Whole fish - Dundas Chemicals		
If other detail:			
3. Mortality records complete and correctly entered?			Y
4. Recent mortality (last 4 wks):	26/08/2019 - 1240 (0.82%), w/b 02/09/2019 - 2147 (1.51%), w/b 09/09/2019 - 903 (0.64%), w/b 16/09/2019 - 650 (0.65%)		
5. Evidence of recent increased/atypical mortalities?			Y
If yes, facility nos/no mortality per facility/no stock per facility/reason:	w/b 02/09/2019 -2147 (1.51%), 1593 attributed to post treatment losses from optilicer treatment.		
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:	Reported to FHI		
8. Have 'mortality events' been reported to FHI? If no, add MRT case and enter on mortality events sheet.			Y

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p12:

Case No:	2019-0558	Date of visit:	30/09/2019			
Time spent on site:	5 hours	Main Inspector:				
Site No:	FS0489	Site Name:	Cole Deep			
Business No:	FB0440	Business Name:	Grieg Seafood Shetland Ltd			
Case Types:	1 REP	2 DIA	3 VMD	4	5	6
Water Temp (°C):	11.8	Thermometer No:	T274	FHI 045 completed:		
Observations:	Region:	SH	Water type:	S	CoGP MA	S-8b
Dead/weak/abnormally behaving fish present?	<input checked="" type="checkbox"/>	If yes, see additional information/clinical score sheet.				
Clinical signs of disease observed?	<input checked="" type="checkbox"/>	If yes, see additional information/clinical score sheet.				
Gross pathology observed?	<input checked="" type="checkbox"/>	If yes, see additional information/clinical score sheet.				
Diagnostic samples taken?	<input checked="" type="checkbox"/>					

Recent (last 4 wks) disease problems?	Y	Any escapes (since last visit)?	N
If yes, detail: gill issues - AGD, bleeding gills			
Movement Records			
1. Movement records available for inspection?			Y
2. Date of last inspection:		28/11/2018	
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?		Whole fish - TWMA (Shetland)	
If other detail:			
3. Mortality records complete and correctly entered?			Y
4. Recent mortality (last 4 wks):		w/b 2/9/19 = 9,247 (1.72%), w/b 9/9/19 = 16,187 (3.06%), w/b 16/9/19 = 44,275 (8.64%), w/b 23/9/19 = 29,466 (6.3%)	
5. Evidence of recent increased/atypical mortalities?			Y
If yes, facility nos/no mortality per facility/no stock per facility/reason:			
Cages 3, 4, 6, 7, 8, 9, 10 and 11. Range from 9.8% to 46.2% from 2/9/19 to 30/9/19.			
6. Any other peaks in mortality during period checked?			Y
If yes, detail:			
Increased mortality in cage 2 in July 2019 following a freshwater treatment (11,667 for whole month).			
7. Have increased (unexplained) mortalities been reported to vet or FHI?			Y
If yes, detail action:			
Increased surveillance, aeration in cages and looking at harvesting			
8. Have 'mortality events' been reported to FHI? If no, add MRT case and enter on mortality events sheet.			Y

Additional Case Information:

Site inspected following notification from operator of increased mortality levels. Mortality levels began to increase in cage 11 at the end of August. Cage 7 has been worst affected cage, losing 23,992 fish from 2-30/9/19 (46%). Total loss on site from 2-30/9/19 has been 100,423 (18%). Three cages (2, 5 and 12) seem to be unaffected with mortality levels low over September (only 0.43% in cage 12). Mortality levels decreased slightly last week.

There was a chaetoceros bloom at the start of August which affected all three sites in the area (Olna South and East of Papa Little). Oxygen has been lower at night. No increase in mortalities at Papa Little and small increase at Olna South last week (see case 2019-0568 for details). Aeration system active at Cole Deep and Olna South (15m depth).

All cages treated with freshwater for lice in July and all (except 1, 8, 9 and 12) treated at start of September. Using Ronja Polaris for treatments. Fish transferred on board and held in freshwater for 10-12 hours. Two cages will be treated before freshwater is discharged (collecting freshwater from tarpaulins near Olna).

Slice used on site for lice. Planning Salmosan/peroxide treatment in tarpaulins for site later this week.

Samples taken last week showed significant mixed gill pathology, probably post acute response to direct waterborne irritant (likely environmental, possibly harmful algae). There was also evidence of AGD, Branchiomonas colonies and suspicion of Desmozoon lepeophtherii. Have had positive PCR samples for PRV.

Due to start harvesting here once completed at Olna South, but company currently discussing whether to bring harvest forward and use the Norwegian Gannet which will allow them to harvest 5-6 cages in one load.

On site, not many moribund fish visible, but 5 removed for further examination and sampling from cages 7, 10 and 11. Also removed one feeding fish from cage 12 (no increased mortalities in this cage) for VMD samples and included in diagnostic sample for comparison.

Additional comments:

- Fish 4 & 5 - melanisation on pyloric caeca fat
- Fish 2 - redness on flank
- Fish 1 - abrasions/lesions on both flanks
- Fish 4 - a few white patches on gills
- Fish 5 - a few white patches on gills and gill damage

Photos p30:

2019-0558 Cole Deep



Fish 1 – lesions and abrasions on flank

p31:

Case No:	2019-0560	Date of visit:	30/09/2019			
Time spent on site:	6 hours	Main Inspector:				
Site No:	FS0805	Site Name:	Bagh Dail Nan Cean			
Business No:	FB0119	Business Name:	Mowi Scotland Ltd			
Case Types:	1 DIA	2 REP	3	4	5	6
Water Temp (°C):	14.2	Thermometer No:		FHI 045 completed	Y	
Observations:	Region:	ST	Water type:	S	CoGP MA	M-40
Dead/weak/abnormally behaving fish present?	<input type="checkbox"/>	If yes, see additional information/clinical score sheet.				
Clinical signs of disease observed?	<input type="checkbox"/>	If yes, see additional information/clinical score sheet.				
Gross pathology observed?	<input type="checkbox"/>	If yes, see additional information/clinical score sheet.				
Diagnostic samples taken?	<input type="checkbox"/>					

Additional Case Information:

some fish have been moved to ornish island (FS0531). The fish that were moved to ornish are planned to be harvested out by end of week 40.

morts are being transported to Denmark - to be used as biofuel.

Fish that went to ornish were large fish that were passively graded.

Outside pens affected worse than inside pens.

Site thermometer was used as FHI thermometer was left at the shorebase by accident. FHI 45 was completed and submitted to

Pen 1, 3 and 9 have had consistently lower mortality but has been rising slowly over last few weeks.

Doesn't appear that morts have slowed down yet. Harvesting plan in place to empty site.

Mortality event in week 39 was collected during site inspection but was also reported by company in week 40.

BDNC had both Wrasse and Lump sucker fish on site.

Cleanerfish mortality

2nd-8th September - Wrasse - 1.29%/462 Lumpfish - 2.8%/440
 9th-15th September - Wrasse - 196 - 0.49% - Lumpfish - 221 - 1.45%
 16th - 22nd September - Wrasse - 286 - 0.72% Lumpfish - 208 - 1.38%
 23rd - 29th September - Wrasse - 148 - 0.38% Lumpfish - 106 - 0.71%

All cleanerfish on site will be culled as the site is harvested out.

Recent (last 4 wks) disease problems?	Y	Any escapes (since last visit)?	N
If yes, detail: Confirmed P.skyensis on site. Mass mortality.			
Movement Records			
1. Movement records available for inspection?			Y
2. Date of last inspection:		02/08/2019	
3. Are records complete and correctly entered?			N
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?		Ensiled - on site	
If other detail: Norwegian equipped with on-board ensiler. Three other boats are removing morts are storing them on the Norwegian boat.			
3. Mortality records complete and correctly entered?			Y
4. Recent mortality (last 4 wks):		2nd-8th (4240 0.56%) 9th-15th(10651 - 1.35%) 16th-22nd(27866 - 3.68%) 23rd-29th - (74060 - 17.05%)	
5. Evidence of recent increased/atypical mortalities?			Y
If yes, facility nos/no mortality per facility/no stock per facility/reason:			
pen 10 was first affected - followed by pen 6			
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: Vet has been on site, reported to FHI, FHI visited			
8. Have 'mortality events' been reported to FHI? If no, add MRT case and enter on mortality events sheet.			Y

Results of Surveillance

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

	Y
	Y
	Y

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

see notes

17/9/19 Patogen report PCR results Pasteurella skyensis 2/3, CMS 1/3, PRV 3/3; Clinical signs of bacterial infection observed and samples taken.

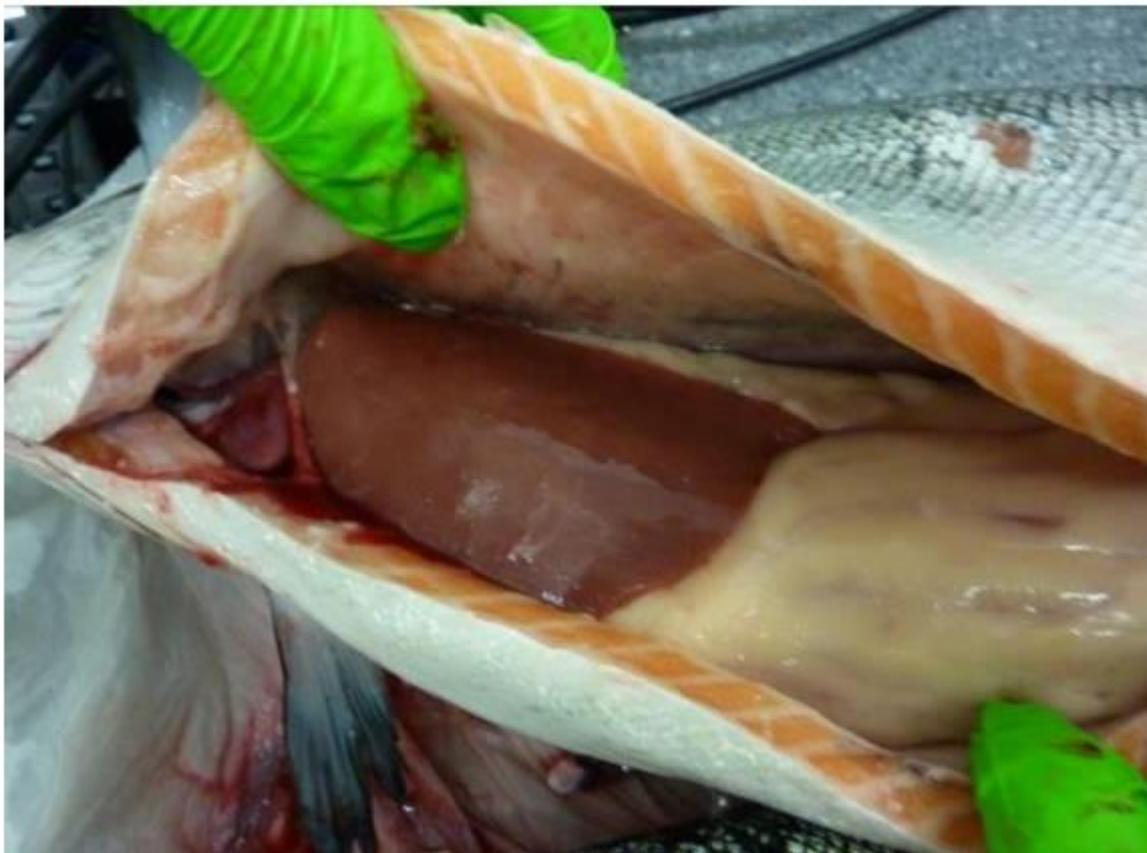
Records checked between:

02/08/2019 - 30/09/2019

Photos p47:

2019-0560

F1 Internal



p53:

Case No:	2019-0568	Date of visit:	30/09/2019
Time spent on site:	4 hours	Main Inspector:	
Site No:	FS0764	Site Name:	Olna South
Business No:	FB0440	Business Name:	Grieg Seafood Shetland Ltd
Case Types:	1 REP	2 DIA	3
Water Temp (°C):	11.8	Thermometer No:	T274
Observations:	Region: SH	Water type: S	FHI 045 completed
Dead/weak/abnormally behaving fish present?	<input checked="" type="checkbox"/>	If yes, see additional information/clinical score sheet.	
Clinical signs of disease observed?	<input checked="" type="checkbox"/>	If yes, see additional information/clinical score sheet.	
Gross pathology observed?	<input checked="" type="checkbox"/>	If yes, see additional information/clinical score sheet.	
Diagnostic samples taken?	<input checked="" type="checkbox"/>		

Additional Case Information:

Site inspected following notification from operator of increased mortality levels for previous week while at shorebase to inspect Cole Deep. Mortality level increased to 1.62% for the site.

Have just started harvesting site and should be complete by mid October. Cage with highest mortality level last week (cage 2) has been harvested.

There was a chaetoceros bloom at the start of August which affected all three sites in the area (Cole Deep and East of Papa Little). Oxygen has been lower at night. No increase in mortalities at Papa Little and large increase at Cole Deep over last month (see case 2019-0558 for details). Aeration system active at Olna South and Cole Deep (15m depth).

All cages treated with freshwater for lice at the end of August. Using Ronja Polaris for treatments. Fish transferred on board and held in freshwater for 10-12 hours. Two cages will be treated before freshwater is discharged (collecting freshwater from tarpaulins near Olna). Slice treatment in July.

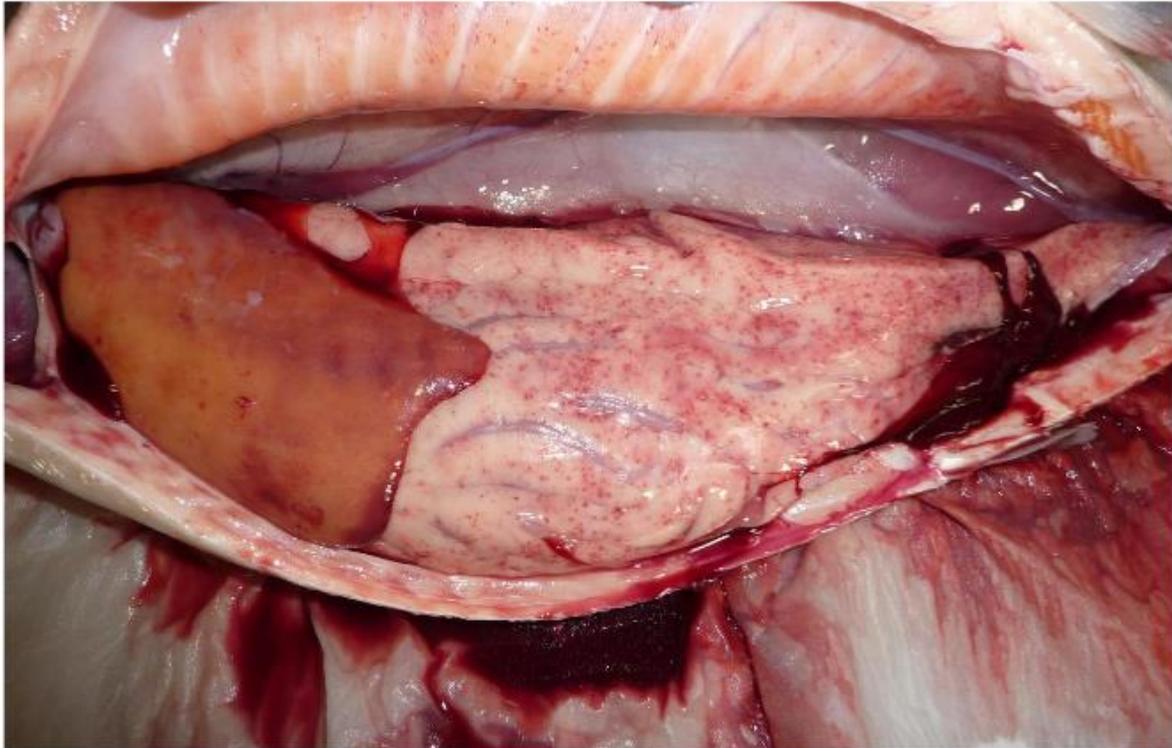
Fish transferred onto Olna South from Cole Deep in May/June.

Only one lethargic fish seen during inspection, removed for sampling.

Recent (last 4 wks) disease problems?	<input checked="" type="checkbox"/>	Any escapes (since last visit)?	<input checked="" type="checkbox"/>
If yes, detail:	Increase in mortalities previous week - gill issues		
Movement Records			
1. Movement records available for inspection?	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
2. Date of last inspection:		18/07/2019	
3. Are records complete and correctly entered?	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
4. Are movement records available for dead fish and waste?	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
5. Are records complete and correctly entered?	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
6. Are health certificates for introductions (outwith GB) available?	<input checked="" type="checkbox"/>		N/A
Transport Records			
1. Are any movements carried out by (or on behalf) of the business (not using a STB)?	<input checked="" type="checkbox"/>		
If yes, is there a system in place for maintenance of transportation records?	<input checked="" type="checkbox"/>		
Mortality Records			
1. Mortality records available for inspection?	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
2. How are mortalities disposed of?		Whole fish - TWMA (Shetland)	
If other detail:			
3. Mortality records complete and correctly entered?	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
4. Recent mortality (last 4 wks):	w/b 2/9/19 = 1,899, w/b 9/9/19 = 1,267, w/b 16/9/19 = 563, w/b 23/9/19 = 4,120		
5. Evidence of recent increased/atypical mortalities?	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
If yes, facility nos/no mortality per facility/no stock per facility/reason:	Increased across site, but highest in cage 2 last week - 1,208 (3.24%) / 37,242 / gill damage		
6. Any other peaks in mortality during period checked?	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
If yes, detail:			
7. Have increased (unexplained) mortalities been reported to vet or FHI?	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
If yes, detail action:	Harvesting		
8. Have 'mortality events' been reported to FHI? If no, add MRT case and enter on mortality events sheet.	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>

Photos p66:

20190568 – Olna South



Fish 1 – Haemorrhaging across pyloric caeca fat and bloody ascites

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Case No:	2019-0376	Date of visit:	01/08/2019			
Time spent on site:	9 hours	Main Inspector:				
Site No:	FS0805	Site Name:	Bagh Dail Nan Cean			
Business No:	FB0119	Business Name:	Mowi Scotland Ltd			
Case Types:	1 WEL	2	3	4	5	6
Water Temp (°C):	13.6	Thermometer No:	T275	FHI 045 completed		
Observations:	Region:	ST	Water type:	S	CoGP MA	M-40
Dead/weak/abnormally behaving fish present?	<input type="checkbox"/>	Y	If yes, see additional information/clinical score sheet.			
Clinical signs of disease observed?	<input type="checkbox"/>	Y	If yes, see additional information/clinical score sheet.			
Gross pathology observed?	<input type="checkbox"/>	N	If yes, see additional information/clinical score sheet.			
Diagnostic samples taken?	<input type="checkbox"/>	N				

Additional Case Information:

Accompanying APHA inspectors to inspect the site following reports of a welfare concern in cleaner fish stock.

Waste ensiled at Kames and transported by Ferguson/Billy Bowie to Energen.

Lump fish in all cages, wrasse in 7 cages. Cleaner fish will be recycled for a maximum of 2 cycles, if in good condition and go through a quarantine procedure. 8 week fallow period. So far, no lumpfish have been recycled.

Lumpfish from Anglesay.

Lumpfish monthly mortality = Dec 18) - 816 01) - 2,207 - 02) - 3653 03) - 1195 04) - 3007 05) - 5055 06) - 9009 07) - 26860 08) - 2781

WRA - Dec 1015 1) 781 2) 597 3)518 4)723 5)510 6)599 7)907 8) 81 Total - 41473 since January

Florfenicol treatment for lumpfish in February 2019. Mortality came down in March, but began rising again in April.

127,878 total lumpfish over cycle ~22,000 remain on site with the majority dying from unknown causes.

The company SOP says Cleaner fish mortality should be reported to cleaner fish vet when back ground mortality levels reach 0.3% background mortality per day, however it appear that few checks were carried out between May and August, even with mortality rising.

Health reports -

13/06/2019 - Health report suggests Crator disease may be a cause of mortality in lumpfish stock. Systemic bacterial infection

24/06 - There was a health inspection of the cleaner fish. There were signs of bacterial infection on the lumpfish with white nodules being present on the tips of spines. There was also a passive grade of the fish as well a thermolicer treatment.

31/07 - July 31st – Lumpfish have a known bacterial infection and no treatment plan is in place, as salmon are on harvest plans and starve days for treatment. However staff are removing infected lumpfish.

Situation at the site was not reflective of the mortality records. Very few fish were seen in general, possibly due to low number of fish left and of those fish ~3 displayed signs of disease. Samples were unable to be collected as there were very few moribund fish seen and all fish quickly scattered when approached with the net.

Treatments - Peroxide treatment WB 1st of July. Thermolicer treating from the 20th - 26th of June. Alphamax treatment on the 24th of July on pens 9 and 11. Slice treatment 1st June.

If yes, detail:

Movement Records

1. Movement records available for inspection?

2. Date of last inspection:

3. Are records complete and correctly entered?

4. Are movement records available for dead fish and waste?

5. Are records complete and correctly entered?

6. Are health certificates for introductions (outwith GB) available?

Transport Records

1. Are any movements carried out by (or on behalf) of the business (not using a STB)?

If yes, is there a system in place for maintenance of transportation records?

Mortality Records

1. Mortality records available for inspection?

2. How are mortalities disposed of?

If other detail:

3. Mortality records complete and correctly entered?

4. Recent mortality (last 4 wks):

5. Evidence of recent increased/atypical mortalities?

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

Cleaner fish mortality - see additional comments

6. Any other peaks in mortality during period checked?

If yes, detail:

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

If yes, detail action:

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

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Case No:	2019-0331	Date of visit:	16/07/2019
Time spent on site:	3 hrs	Main Inspector:	
Site No:	FS0594	Site Name:	Aird
Business No:	FB0169	Business Name:	The Scottish Salmon Company
Case Types:	1 REG	2 WEL	3
Water Temp (°C):	13.2	Thermometer No:	T153
Observations:	Region: HI	Water type: S	FHI 045 completed
Dead/weak/abnormally behaving fish present?	<input checked="" type="checkbox"/>	If yes, see additional information/clinical score sheet.	
Clinical signs of disease observed?	<input type="checkbox"/>	If yes, see additional information/clinical score sheet.	
Gross pathology observed?	<input type="checkbox"/>	If yes, see additional information/clinical score sheet.	
Diagnostic samples taken?	<input type="checkbox"/>		

Additional Case Information:

Follow up inspection with APHA to inspect implementation of revised mortality removal procedures following inspection on 13/06/19. Revised procedures appeared to have been satisfactorily implemented within area.

Thermolicer treatment conducted WK28, ~95% reported clearance.

3 cages have been harvested out including the worst affected cage observed at the previous inspection. 10 lethargic fish were removed by site staff across the site at time of inspection, good visibility at time of inspection and fish showed good feeding response

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Case No:	2019-0156	Date of visit:	28/05/2019
Time spent on site:	6h	Main Inspector:	
Site No:	FS1297	Site Name:	Tabhaigh
Business No:	FB0119	Business Name:	Mowi Scotland Ltd
Case Types:	1 ECI	2 CNI	3 SLI
	4 VMD	5 DIA	6
Water Temp (°C):	9.8	Thermometer No:	T173
		FHI 045 completed	
Observations:	Region: WI	Water type: S	CoGP MA W-3
Dead/weak/abnormally behaving fish present?	<input type="checkbox"/>	If yes, see additional information/clinical score sheet.	
Clinical signs of disease observed?	<input type="checkbox"/>	If yes, see additional information/clinical score sheet.	
Gross pathology observed?	<input type="checkbox"/>	If yes, see additional information/clinical score sheet.	
Diagnostic samples taken?	<input type="checkbox"/>		

Additional Case Information:

Mortality events: 7/8/2017 - 3.7%, 14/8/17 - 6.57%, 21/8/17 - 2.54% (post treatment mortalities both medicine and thermolicer) all events had been reported. Morts for this input have been below the reporting threshold

sea lice counts 2017 wk 41 - 4.16, wk 42 - 7.5. this information had been reported. Current stock has been below the reporting threshold since input.

Seal predation had been an issue at start of cycle but this is reducing over the last four weeks. A large plastic killer whale is to be deployed.

Cleaner fish mortality had been high

Lumpfish were treated for Pastuerella, in October 2018 (Q3 lumpfish treatment Aquatet). Q4 Lumpfish treated in November 2018 (Tenebaculum), treated with Aquatet. The lumpfish were given a further treatment during April 2019 (florfenicol) for atypical furunculosis.

Recent (last 4 wks) disease problems?	Y	Any escapes (since last visit)?	N
If yes, detail:	Lumpfish atypical furunculosis		
Movement Records			
1. Movement records available for inspection?			Y
2. Date of last inspection:		28/06/2017	
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)?			N
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 - Energen, Cumbernauld	
If other detail:	Deerdykes Scottish water		
3. Mortality records complete and correctly entered?			Y
4. Recent mortality (last 4 wks):		3239/site/last four weeks (0.42%) (seal predation, physical damage)	
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?			Y
If yes, detail:	Lumpfish October 2018 20794 (Pastuerella), November 2018 10599 (Tenebaculum), April 2019 7637 (Atypical furunculosis and freshwater treatment)		
7. Have increased (unexplained) mortalities been reported to vet or FHI?			Y
If yes, detail action:	Vets on site, samples taken antibiotic prescribed		
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)?		Y
If yes, detail:	Florfenicol to the lumpfish TMS	
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)?	TMS Florfenicol	
If other, detail:		
6. Are medicines stored appropriately?		Y

Case No:	2019-0156	Date of visit:	28/05/2019
Site No:	FS1297	Inspector:	

Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp
MG BKD	0/5	04/06/2019		04/06/2019		26/06/2019		
MG IHNQ	0/1	04/06/2019		04/06/2019		26/06/2019		
MG IPN	0/1	04/06/2019		04/06/2019		26/06/2019		
MG ISA	0/1	04/06/2019		04/06/2019		26/06/2019		
MG SAV	1/1	04/06/2019		04/06/2019		26/06/2019		
MG VHS	0/1	04/06/2019		04/06/2019		26/06/2019		
MG PMCV (CMS)	1/1	06/06/2019		06/06/2019		26/06/2019		
Yersinia ruckeri	4/5	13/06/2019		13/06/2019		26/06/2019		
Adhesions	2/5	13/06/2019		13/06/2019		26/06/2019		
Heart pathology	4/5	13/06/2019		13/06/2019		26/06/2019		
Spleen pathology	1/5	13/06/2019		13/06/2019		26/06/2019		
Pasteurella skyensis	1/5	13/06/2019		13/06/2019		26/06/2019		
CMS (histo)	1/5	13/06/2019		13/06/2019		26/06/2019		
SAV (histo)	5/5	13/06/2019		13/06/2019		26/06/2019		

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Additional Case 20190064

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Case No:	<input type="text" value="2019-0064"/>	Date of visit:	<input type="text" value="27/02/2019"/>
Time spent on site:	<input type="text" value="8hrs"/>	Main Inspector:	<input type="text" value=""/>
Site No:	<input type="text" value="FS1176"/>	Site Name:	<input type="text" value="Eilean Grianain"/>
Business No:	<input type="text" value="FB0119"/>	Business Name:	<input type="text" value="Mowi Scotland Ltd"/>
Case Types:	1 <input type="text" value="ECI"/> 2 <input type="text" value="CNA"/> 3 <input type="text" value="SLI"/> 4 <input type="text" value="VMD"/> 5 <input type="text" value="ESC"/> 6 <input type="text" value=""/>		
Water Temp (°C):	<input type="text" value="8.1"/>	Thermometer No:	<input type="text" value="Site"/>
		FHI 045 completed	<input type="text" value="N"/>
Observations:	Region: ST	Water type: S	CoGP MA M-47
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="N"/>	If yes, see additional information/clinical score sheet.	
Gross pathology observed?	<input type="text" value="N"/>	If yes, see additional information/clinical score sheet.	
Diagnostic samples taken?	<input type="text" value="N"/>		

Additional Case Information:

Inspection of paperwork, site and VMD sampling carried out by [redacted] observed by [redacted]. ESC investigations carried out by [redacted].
 Mixture of live and dead haul harvest.
 Dead fish waste ensiled on site prior to being collected and transported to Cumbernauld.
 ROV used for mortality removal since summer 2018.
 Wk 29/12/18 - average adult females 2.55 (gravid + adults).
 Wk 04/12/18 - dropped to 0.63 (gravid + adults).
 No treatments carried out, cleaner fish stocked on site and moved to most affected pens. Site currently harvesting.
 Wk 17/01/19 up until inspection - lice counts above suggested criteria for treatment, but below reporting threshold.
 No medicinal treatments carried out. Site expecting to be fallow end of March 2019.
 4 morts observed across site, no moribund fish or clinical signs observed.
 Fish sampled for VMD appeared healthy.

ESC - During 2018 the site reported 3 separate circumstances which gave rise to a significant risk of escape. Each of these events was investigated during the inspection.

MSe080318SAL1 - Site reported a 1m x 1.5m x 0.5m hole approximately 1m below the baseline in net of Cage 20 discovered during a routine dive inspection on 08/03/2018. Site manager stated that the hole in the net would have been repaired following the discovery, however this was not recorded in the site diary or dive records. Both the initial (12/03) and final (16/04) escape event notifications reported to the FHI that no fish had been lost during the event. It was suspected that the hole was caused by abrasions from the mooring chain, exacerbated by storm conditions during that period. Following the event, cage froyer rings were replaced with individual chain weights, which should reduce the likelihood of chains rubbing against the nets during storm conditions. before the next production cycle begins, chains are to be replaced with dyneema ropes, to reduce the risk of abrasions on nets. Inspection of the site diary and dive reports found that a 1m hole at the base of the net of Cage 20 was found again on 18/03/2018, it was also noted in the site diary that seals were seen inside the cage, and seal damage to fish was observed. This was not reported to the FHI. Escape notifications subsequently sent in by MOWI under the escape reference MSe180318SAL1. Fish count numbers from 05/05/18 when cage 20 was split down showed no fish escaped.

MSe300718SAL1 - Site reported a 30cm horizontal hole in the upper area of net on Cage 8, during routine inspection by site staff on 30/07/2018. Hole repaired on same day. No fish were suspected to have escaped as the hole was covered on the outside by a lice skirt. No fish were observed outside the cage. During follow up inspections of all other cages a similar hole, approximately 30cm in length and covered on the outside by a lice skirt, was found in the net of Cage 11 on 02/08/2018 and repaired on the same day, this was also reported to the FHI (MSe020818SAL1). No fish are thought to have escaped, due to the position of the hole and being covered by the lice skirt. No fish outside the cages were observed. No other holes were found on the remaining cages. Site manager suspects these holes may have been caused by net cleaners weakening panels of the nets. Net cleaner staff are to inspect upper areas of nets after net cleaning has been carried out. Mowi are currently trialling a new net cleaner which do not utilise tracks to move up and down the nets, but use a jet propulsion system, which may reduce potential wear on nets during cleaning.

Documents demonstrating recommendations made in enhanced containment inspection report had been actioned were received on 11/11/19 and inspected as satisfactory.

Mortality Records	
1. Mortality records available for inspection?	Y
2. How are mortalities disposed of?	Biogas - Energen, Cumbernauld
If other detail:	
3. Mortality records complete and correctly entered?	Y
4. Recent mortality (last 4 wks):	726 across South site. 928 across North site. 1652 total morts across both sites. 0.37% across both sites (salmon). 599 combined cleaner fish morts across both sites.
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, add MRT case and enter on mortality events sheet.	N/A

██████████
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FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NO	FB0119	DATE OF VISIT	27/02/2019
SITE NO	FS1176	SITE NAME	Eilean Grianain
INSPECTOR	██████████	CASE NO	20190064

This report replaces the fish health report 20190064_R10 issued on 24/05/2019 by ██████████. The original report was not successfully sent out to the above business correspondent, due to an IT error. The deadline date for submission of documents has been updated to reflect the new issue date of this report.

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