Case No: 2026-0189 Date of visit: 02/06/2026

Additional inspector(s): Main Inspector: [redacted]

Site No: FS0500 Site Name: Applecross Smolt Unit
Business No: FB0169 Business Name: Bakkafrost Scotland

Case Types: 1 REP 2 REG 3 DIA 4 5 6

Water Temp (°C): 12.1 Thermometer No: Site FHI 045 completed Y

Observations: Region: HI Water type: F CoGP MA

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

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

Additional Case Information:

Peaks in mortality since last Inspection: 2026 wk 6 17006 (2.98%), wk 7 21207 (3.83%) fungus/post vaccine. Mortalities were elevated from weeks 8 to 13 following vaccination resulting in saprolegnia with 58299 recorded for this period.

Mortalities for the last five weeks have been elevated: wk 18 16373 (1.86%) physical damage, fungus and vaccination. Wk 19 47732 (5.51%) physical damage, vaccination and no identified cause (under investigation), wk 20 34922 (4.27%) physical damage, wk 21 31157 (3.98%) physical damage. wk 22 20463 (2.73%), physical damage.

Testing for recent elevated mortalities have been inconclusive, one report of atypical furunculosis (A.pectinolytica isolated) but not deemed to be the cause of clinical expression. Positive for Flavo psychrophilum (histo/PCR). Skin lesions indicated furunculosis but negative for A. salmonicida.

Fungus had been evident on the fins, there had been some fin nipping which may have contributed to the fungal infection. Increased salinity has been used on two tanks which may have caused some osmoregulatory issues and contributed to the morts.

Case No:	2026-0189	Site No:	FS0500
Date of Visit:	02/06/2026	Main Insp:	[redacted]

Registration/Authorisation Details

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

Site Details (include cleaner fish for all sections)

Total No facilities	7	Facilities stocked		4	No facilities inspected		7
Species	Atlantic salmon						
Age group	2025						
No Fish	728,410						
Mean Fish Wt	85g						
Next Fallow Date (Site)	On going cycle		Next Input Date (Site)		TBC		
Recent (last 4 wks) disease problems?		Y	Any escapes (since last visit)?				N
If yes, detail:	Fungus						

Movement Records

1. Movement records for **all species** held available for inspection?	Y
2. Date of last inspection:	27/01/2026
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. Have all introductions and imports (since last inspection) from outwith the GB health zone been recorded in the movement records?	Y

Transport Records

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

Mortality Records

1. Mortality records for **all species** held available for inspection?	Y
2. How are mortalities disposed of?	Biogas - Barkip
If other detail:	
3. Mortality records complete and correctly entered?	Y
4. Recent mortality (last 4 wks):	see additional information
5. Evidence of recent increased/atypical mortalities?	Y
If yes, facility nos/no mortality per facility/no stock per facility/reason:	
see additional information	
6. Any other peaks in mortality during period checked?	Y
If yes, detail:	see additional information
7. Have increased (unexplained) mortalities been reported to vet or FHI?	Y
If yes, detail action:	samples taken
8. Have 'mortality events' been reported to FHI? If no, enter details on mortality events sheet.	Y

Treatments and Medicines Records

1. Recent treatments (see comment)?		Y
If yes, detail:	T.M.S.	
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.	
If other, detail:		
6. Are medicines stored appropriately?		Y

Biosecurity Records

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

Results of Surveillance

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

Records checked between: 27/1/2026 to 2/6/2026

Case no:	2026-0189	Site No:	FS0500	Date of visit/ Sampling:	02/06/2026	02/(							
Priority samples:	VI		BA		PA		MG		HI				
Time sampling starts/ends:	11:30:00	12:30:00	Main Insp:		VMD No.	0							
Environmental conditions:	1	Indoors	2		3		4		5				
Summary samples	HIST	Y	BA	Y	MG	Y	VI		PA	Y	Total Samples		

Add Fish/Pools - click button

	Pool/Fish No	F1	F2	F3	F4	F5							
	Fish nos	1	2	3	4	5							
	Pool Group												
Stock Details	Species	SAL	SAL	SAL	SAL	SAL							
	Average weight	60g	60g	60g	60g	60g							
	Sex	N/A	N/A	N/A	N/A	N/A							
	Water Type	FW	FW	FW	FW	FW							
	Stock Origin	Applecross Parr Unit (FS1336)	Applecross Parr Unit (FS1336)	Applecross Parr Unit (FS1336)	Applecross Parr Unit (FS1336)	Applecross Parr Unit (FS1336)							
	Facility No	4	4	4	4	4							

06/2026 Additional Sample Information:

5 Total Tests assigned 4

Case no: 2026-0189 Site No: FS0500 Method of killing: Anaesthetic

Date of visit: 02/06/2026 Main Insp: [redacted] Sheet Relevant: Y

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

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

Case no: 2026-0189

Date of visit: 02/06/2026

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

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

Additional comments:

Case No: 2026-0189 Date of visit: 02/06/2026

Site No: FS0500 Main Insp:

Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2nd Insp
IPN (PCR) - IPNM	5/5	10/06/2026		10/06/2026		29/07/2026		
VHS (PCR) - VHSP	0/5	10/06/2026		10/06/2026		29/07/2026		
IHN (PCR) - IHNP	0/5	10/06/2026		10/06/2026		29/07/2026		
Salmonid alphavirus (SAV) (PCR) - SALP	0/5	10/06/2026		10/06/2026		29/07/2026		
Gyrodactylus salaris - GSAL	0/5	16/06/2026		16/06/2026		29/07/2026		
Aeromonas spp - AERO	5/5	01/07/2026		01/07/2026		29/07/2026		
Flavobacterium psychrophilum (culture) - FPSY	1/5	01/07/2026		01/07/2026		29/07/2026		
Shewanella spp - SHEW	4/5	01/07/2026		01/07/2026		29/07/2026		
Pseudomonas fluorescens - PSFL	1/5	01/07/2026		01/07/2026		29/07/2026		
No significant bacteria (culture) - NSIG	2/5	29/07/2026		N/A		29/07/2026		
Skin ulcers - SULC	5/5	27/08/2026		10/09/2026		07/10/2026		
Necrosis - NECR	5/5	27/08/2026		10/09/2026		07/10/2026		
Gill pathology - GPAT	5/5	27/08/2026		10/09/2026		07/10/2026		
Heart pathology - HPAT	2/5	27/08/2026		10/09/2026		07/10/2026		
Muscle pathology - MPAT	2/5	27/08/2026		10/09/2026		07/10/2026		
Flavobacteria (histology) - FLAH	5/5	27/08/2026		10/09/2026		07/10/2026		
Oomycetes - OOMY	1/5	27/08/2026		10/09/2026		07/10/2026		
Kidney pathology - KPAT	4/5	27/08/2026		10/09/2026		07/10/2026		
Unidentified bacterial infection (histology)- BACT	5/5	27/08/2026		10/09/2026		07/10/2026		
Pancreas pathology - PPAT	1/5	27/08/2026		10/09/2026		07/10/2026		

Report Summary			
Case Type	Date	Insp	2nd Insp
REP,REG	02/07/2026		
Interim DIA	30/07/2026		
Final DIA	07/10/2026		

		[redacted]

Interim Fish Health Inspectorate visit report

Summary for information of site operator

Business no:	FB0169	Date of visit:	02/06/2026
Site no:	FS0500	Site name:	Applecross Smolt Unit
Case no:	20260189	Inspector:	[redacted]

Section one: summary

A visit was conducted following reports of increased mortality from the operator. During the inspection, moribund fish were observed, five of which were removed for further examination and subsequent diagnostic sampling.

Histopathological examination has yet to be completed, a separate report will be issued in due course.

Aeromonas sp. (likely fit *caviae*) was identified on plates taken from all five fish. The level and purity of growth would suggest this bacterium would be implicated in fish morbidity.

Flavobacterium psychrophilum was identified on plates taken from fish 5. This bacterium is a primary fish pathogen and would pose a risk to the health of this fish.

Shewanella putrefaciens was identified on plates taken from fish 1, 2, 3 and 5. The level and purity of growth would not suggest this bacterium would be present as a primary pathogen.

Pseudomonas fluorescens was identified on plates taken from fish 1. The level and purity of growth would not suggest this bacterium would be present as a primary pathogen.

Infectious pancreatic necrosis virus (IPNV) was detected in all five fish by qPCR. The significance of this result is unclear as the fish had recently been vaccinated and the histopathology results are not yet complete.

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

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Section two: case detail

Observations

Elevated mortalities had been reported to the Fish Health Inspectorate from week 18 continuing through until the inspection in week 23 with a total mortality of 150,754 being recorded. On inspection of the stock a number of lethargic fish were observed, five were removed for diagnostic sampling.

Externally, F1 had a distended abdomen and haemorrhaging on the base of one pectoral fin, lesions were also present on fish 1-5.

Internally, no significant gross pathology was observed.

Samples

Samples were collected from insert number fish according to the table below:

Fish number	Facility number	Species	Stage	Origin
1-5	4	Atlantic salmon	60g 2025	Applecross Parr Unit (FS1336)

Results

Bacteriology:

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

The following bacteria were isolated:

- *Aeromonas* sp. (likely caviae): F1-5 (kidney, spleen and lesion);
- *Flavobacterium psychrophilum:* F1 (spleen);
- *Shewanella putrefaciens:* F1 and 2 (kidney) and F2, 3 and 5 (lesion);
- *Pseudomonas fluorescens:* F1 (spleen and lesion).

From the tests conducted on the *Aeromonas* sp. isolate we have evidence which may indicate resistance to amoxycillin and oxytetracycline but no resistance to sulphamethoxazole/trimethoprim or florfenicol.

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Virology:

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

Infectious pancreatic necrosis virus (IPNV)

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	16.38	37.30	36.68	36.61	POSITIVE
F2	14.55	34.37	35.28	34.44	POSITIVE
F3	15.15	36.13	36.64	36.45	POSITIVE
F4	16.25	34.36	35.26	35.54	POSITIVE
F5	15.26	36.25	35.78	36.19	POSITIVE

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

Parasitology:

Fins were collected to determine the presence of *Gyrodactylus salaris* using light microscopy. No *G. salaris* parasites were detected in the samples examined.

Histology:

Tissue samples of gill, skin and skeletal muscle, heart, pyloric caeca, pancreas, hind gut, liver, spleen and kidney were taken from F1-5.

Histopathological examination has yet to be completed, a separate report will be issued in due course.

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

Signed: [redacted] Date: 29/7/2026

Fish Health Inspector

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Scottish Government website at Fish Health Inspectorate Service Charter - gov.scot (www.gov.scot)

R09

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Final Fish Health Inspectorate visit report

Summary for information of site operator

Business no:	FB0169	Date of visit:	02/06/2026
Site no:	FS0500	Site name:	Applecross Smolt Unit
Case no:	20260189	Inspector:	[redacted]

Section one: summary

A visit was conducted following reports of increased mortality from the operator. During the inspection, moribund fish were observed, five of which were removed for further examination and subsequent diagnostic sampling.

Histological findings were predominantly characterised by ulcerative and necrotising skin lesions with extensive bacterial involvement, extending variably into the underlying dermal, hypodermal and skeletal muscle tissue. Bacteria associated with these lesions were predominantly rod-shaped, with filamentous forms also prominent in some lesions, in support of this observation *Aeromonas* sp. (likely *A. caviae*), *Shewanella putrefaciens and Pseudomonas fluorescens* were also isolated from plates taken from lesion material.

The overall presentation is compatible with furunculosis (*Aeromonas salmonicida*) however, whilst this bacterium was not isolated, *Aeromonas* sp. (likely *caviae*) was.

The presence of filamentous bacteria within some of the ulcerative skin lesions also raises the possibility of concurrent flavobacteria involvement with *Flavobacterium psychrophilum* identified from lesion material.

Infectious pancreatic necrosis virus (IPNV) was detected in all five fish by qPCR. The significance of this result is unclear as the fish had recently been vaccinated.

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

Section two: case detail

Elevated mortalities had been reported to the Fish Health Inspectorate from week 18 continuing through until the inspection in week 23 with a total mortality of 150,754

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being recorded. On inspection of the stock a number of lethargic fish were observed, five were removed for diagnostic sampling.

Externally, F1 had a distended abdomen and haemorrhaging on the base of one pectoral fin, lesions were also present on fish 1-5.

Internally, no significant gross pathology was observed.

Samples

Samples were collected from insert number fish according to the table below:

Fish number	Facility number	Species	Stage	Origin
1-5	4	Atlantic salmon	60g 2025	Applecross Parr Unit (FS1336)

Results

The outstanding results for this case are:

Histology:

Tissue samples of gill, skin and skeletal muscle, lesion, 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:

Histological findings were predominantly characterised by ulcerative and necrotising skin lesions with extensive bacterial involvement, extending variably into the underlying dermal, hypodermal and skeletal muscle tissue. Bacteria associated with these lesions were predominantly rod-shaped, with filamentous forms also prominent in some lesions.

Gram staining confirmed the presence of Gram-negative rod-shaped bacteria, including a large focal bacterial lesion within the ventricular myocardium associated with mild lymphocytic infiltration. Smaller focal bacterial accumulations were also observed within several other internal tissues.

The findings indicate significant bacterial disease with evidence of systemic involvement in at least one individual. The overall presentation is compatible with furunculosis (*Aeromonas salmonicida*), although the presence of filamentous bacteria

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within some of the ulcerative skin lesions also raises the possibility of concurrent *Flavobacteria* involvement.

Please refer to my previous report for all other results. Contact myself or the duty inspector should you require any further information or have any queries regarding this report.

Signed: [redacted] Date: 07/10/2026

Fish Health Inspector

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Fish Health Inspectorate visit report

Summary for information of site operator

Business no:	FB0169	Date of visit:	02/06/2026
Site no:	FS0500	Site name:	Applecross Smolt Unit
Case no:	20260189	Inspector:	[redacted]

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

The above site was inspected in accordance with the Aquatic Animal Health (Scotland) Regulations 2009, following the notification of elevated mortality.

All epidemiological units were inspected.

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

Records

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

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

Mortality records were inspected and found to be maintained incorrectly.

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

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

The following point was raised with the site representative during the inspection:

- In the mortality records some entries had the cause of death recorded birds, this was incorrect given the site is indoors.

R10

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This was discussed with the site manager who confirmed it had been input to the system incorrectly. The records were to be updated so no further action is required.

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

Signed: [redacted] Date: 2/7/2026

Fish Health Inspector

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