

Case No: 2025-0127 Date of visit: 05/11/2025

Additional inspector(s): Main Inspector:

Site No: FS1310 Site Name: Loch Pooltiel
Business No: FB0134 Business Name: Kames Fish Farming Ltd

Case Types: 1 REP 2 DIA 3 4 5 6

Water Temp (°C): 12.5 Thermometer No: T304 FHI 045 completed N/A

Observations: Region: HI Water type: S CoGP MA: M-25

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:

Site inspected follow ongoing mortality event notifications. The site was impacted by jellyfish in the summer, resulting in damage to the gills. Larger grade of stock on site have been worst affected.

For this cycle Kames are trialling part grown fish that originated from Shuna Castle (FS0465), stocked in 5 pens and the remaining 5 pens were stocked with fish from Glenkens (FS0134) and Torhouse Mill (FS0560).

Site is conducting daily water quality checks and reported to share information with neighbouring operator. Site is currently using an automated biomass camera to estimate the weights of fish for planning harvests, this reduces the need to handle stock for sample weights and is reported to be quite accurate. The camera can be viewed from the shorebase.

Mortalities are removed using the Foover, which is reported to be working well.

The site is due to start harvesting Pen 1 at the end of week.

2 dead observed across site at time of inspection, between 5 and 10 lethargic fish observed per pen across site, these were deeper in the water column. No moribund fish observed at time of inspection and site staff reported very few moribund have been observed.

Case No: **2025-0127** Site No: **FS1310**

Date of Visit: **05/11/2025** Main Insp: **[REDACTED]**

Registration/Authorisation Details

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

Site Details (include cleaner fish for all sections)

Total No facilities	10	Facilities stocked	9	No facilities inspected	10
Species	Rainbow trout				
Age group	2023				
No Fish	319,433				
Mean Fish Wt	2,023kg				
Next Fallow Date (Site)	Sept 26	Next Input Date (Site)	Oct/Nov 26		
Recent (last 4 wks) disease problems?		Y	Any escapes (since last visit)?		N
If yes, detail:	CGD				

Movement Records

- 1. Movement records for **all species** held available for inspection? **Y**
- 2. Date of last inspection: **06/03/2024**
- 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? **N/A**

Transport Records

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

Mortality Records

- 1. Mortality records for **all species** held available for inspection? **Y**
- 2. How are mortalities disposed of? **Biogas - Gask, Turriff**
- If other detail: **Biogas - Barkip**
- 3. Mortality records complete and correctly entered? **Y**
- 4. Recent mortality (last 4 wks): **WK41 - 1.25% (4,288), WK42 - 1.66% (5,630), WK43 - 2.01% (6,717), WK44 - 1.08% (3,532) All attributed to CGD**
- 5. Evidence of recent increased/atypical mortalities? **N**
- If yes, facility nos/no mortality per facility/no stock per facility/reason: **[REDACTED]**
- 6. Any other peaks in mortality during period checked? **Y**
- If yes, detail: **Detailed in Mortality Event Spreadsheet**
- 7. Have increased (unexplained) mortalities been reported to vet or FHI? **N/A**
- If yes, detail action: **[REDACTED]**
- 8. Have 'mortality events' been reported to FHI? If no, enter details on mortality events sheet. **Y**

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

Priority samples: VI BA PA MG HI

Time sampling starts/ends: Main Insp: VMD No.

Environmental conditions: 1 2 3 4 5

Summary samples HIST BA MG VI PA Total Samples

Add Fish/Pool - click button

Pool/Fish No	F1	F2	F3									
Fish nos	1	2	3									
Pool Group												
Species	RTR	RTR	RTR									
Average weight	2.0000	2.0000	2.0000									
Sex												
Water Type	SW	SW	SW									
Stock Origin	Shuna Castle (FS0465)	Shuna Castle (FS0465)	Shuna Castle (FS0465)									
Facility No	1	3	3									

Case no: 2025-0127

Site No: FS1310

Method of killing: Percussive

Date of visit: 05/11/2025

Main Insp:

Sheet Relevant: Y

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

Fish Number		1	2	3																
Time sampled after death (if > 45 minutes)																				
External Signs																				
Behaviour	Moribund																			
	Lethargic	M	S	M																
	Hanging vertical																			
	Spiralling																			
	Flashing																			
	Loss of equilibrium																			
Body	Dark																			
	Distended abdomen																			
	Anorexic																			
	Scale Oedema																			
Opercula	Shortened																			
	Flared																			
Haemorrhaging	Throat																			
	Ventrum																			
	Base of fins																			
	Elsewhere																			
Eyes	Exophthalmic																			
	Enophthalmic (sunken)																			
	Cataract																			
	Haemorrhagic																			
Gills	Pale																			
	Zoned	W	W																	
	Necrotic	W		M																
Lesions	Flank		W																	
	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)	4	4	4																
	Granulomas																			
	Lesions																			
Pyloric caeca	Petechial haem																			
	Tubules mauve																			
	Lack of fat																			
Spleen	Enlarged	W	S	M																
	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:

Fish Health Inspectorate visit report

Summary for information of site operator

Business no:	FB0134	Date of visit:	05/11/2025
Site no:	FS1310	Site name:	Loch Pooltiel
Case no:	20250127	Inspector:	██████████

Section one: summary

The site was inspected due to mortality reports above the reporting threshold.

Histopathological examination revealed mild, complex gill pathology and, in one fish, marked dermatitis. Gill samples tested by qPCR were positive for *Neoparamoeba perurans* (AGD) and *Paranucleospora theridion*.

Vibrio sp. and *pseudomonas fluorescens* were identified in F1 to F3. The level and purity of growth observed on plates taken from kidney material would not suggest these bacteria were primary pathogens.

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

Observations

The site was inspected following a period between 18/08/25 to 26/10/25 where mortalities were above the reporting thresholds. During the period mortalities ranged between 3,532 (1.08%) to 15,300 (3.72%).

During inspection of stock on site no moribund fish were observed and between five and 10 lethargic fish were observed in each pen. Three fish were removed from pens holding the larger grade of fish. The site experienced issues with jellyfish during the summer, resulting in gill damage to the stock on site, with the larger grade of fish worst affected.

All three fish were lethargic, with F1 having zoned necrotic gills, F2 having zoned gills and F3 having necrotic gills.

Internally all fish had slightly pale livers and all had enlarged spleens.

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Samples

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

Fish number	Facility number	Species	Stage	Origin
F1	1	Rainbow trout	2023; 2kg	Shuna Castle
F2 & F3	3	Rainbow trout	2023; 2kg	Shuna Castle

Results

Bacteriology:

Kidney and gill, from F1 to F3 and lesion material from F2 were inoculated onto appropriate media for the isolation of bacteria.

The following bacteria were isolated from fish F1 -F3:

- *Vibrio* sp. (kidney F1 – F3 and lesion F2)
- *Pseudomonas fluorescens* (gill F1 – F3 and lesion F2)

Virology:

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

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

Parasitology:

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

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Paranucleospora theridion

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	21.50	30.98	30.87	30.84	POSITIVE
F2	21.75	29.00	29.02	29.03	POSITIVE
F3	21.33	26.33	26.33	26.23	POSITIVE

Neoparamoeba perurans (AGD)

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	-	-	-	-	Negative
F2	21.75	33.25	33.82	33.54	POSITIVE
F3	21.33	32.11	32.18	32.32	POSITIVE

Histology:

Tissue samples of gill, skin and skeletal muscle, heart, pyloric caeca, pancreas, hind gut, liver, spleen, and kidney were taken from F1-F3. The tissue samples were fixed in 10% neutral buffered formalin.

Histopathological examination revealed the following:

Gill: Filament branchitis with necrosis (F2, F3). Lamellar hyperplasia, scattered, mild (F1-F2) and evidence of lamellar vascular compromise (F1). Few aneurysmal dilations and telangiectasias.

Skin & Muscle: Dermatitis presenting with oedematous pockets and missing scales (F2); Gram-negative bacteria were also observed (F2). Minor myositis (F1).

Heart: Myocarditis, minor, multifocal (F1-F3) and some thrombi. Epicarditis, mild (F1-F3).

Gut and pyloric caeca: Peritonitis, mild (F2). F1 & F3 Almost no pyloric caeca tissue.

Pancreas: No abnormalities detected. F2: Almost no pancreas.

Liver: No abnormalities detected.

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Kidney: Some interstitial cell (haemopoietic) hyperaemia (F2). Hyaline droplets observed in few renal tubules (F2, F3).

Spleen: Some subcapsular hyperaemia (F3).

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

Signed:



Date: 09/12/25

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 \(www.gov.scot\)](http://www.gov.scot)

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