

Case No:	2025-0347		Date of visit:	18/09/2025		
Additional inspector(s):			Main Inspector:			
Site No:	FS0265	Site Name:	Inverkerry Smolt Unit			
Business No:	FB0061	Business Name:	Landcatch Natural Selection Ltd			
Case Types:	1 DIA	2 REP	3 VMD	4	5	6
Water Temp (°C):	12	Thermometer No:	T306	FHI 045 completed	N/A	
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:

Reported mort events; 1/8/25-7/8/25 8g 11.72% 343184 fish unexplained

8/9/25-14/9/25 10g 11.97% environmental challenge/ bacterial gill disease 303075 fish. Pyceze and Chloramine-T treatments. A change from Pyceze to Chloramine-T treatments has proven effective with mortality dropping significantly from Friday onwards. Appetite in the surviving stock has noticeably improved.

Fish (2026 s1) were moved on from Inverpolly Hatchery (FS0264) from the 1/8/2025 to the 15/8/2025, had furunculosis prior to visit from FHI on 27/8/25 and were treated with antibiotics. This issue resolved after treatment and is considered separate from the last two reported mortality events which are being attributed to gill disease and environmental challenges.

Mortalities since last inspection on 27/8/25(3 weeks). 692084 (29.57%) - all stocks. 682343 (51%) in small parr and 9741 in large parr. Small parr (B tanks) have been lethargic, not responding to human activity and moribund.

Larger parr will be moved to Loch Awe in November. Small parr were due to go to Loch Damph but because of mort issues this is now undecided.

Treatments 12/9, 15/9 and 10/9 Chloramine T treatment in small parr. 11/9, 9/9, and 7/9 Bronopol - Pyceze in small parr. Floricol treatment ended 22/8/25 in small parr (225DD). Larger parr were sampled for VMD and were treated with formalin 17/9/25

Health reports STIM (fish vet group); 15/9/25 Gill pathology suggestive of suboptimal environmental conditions, apoptosis. Suspicion of SGPV. Organic debris and small rod-shaped bacteria on gills- atypical bacterial gill disease.

Health reports STIM (fish vet group); 8/9/25; Moderate gill pathology suggestive of environmental insult, glochidia parasite, PCR SGPV 6/6, IPN 0/6 Aeromonas salmonicidia 0/6

Health reports STIM (fish vet group); 4/9/25 PCR; RTFS 0/7, IPN 0/7, IPN 0/7, Aeromonas salmonicidia 0/7, ERM 0/7

On inspection of the tanks the small parr (B tanks) had 15-30 moribund fish in the mort removal side tanks.

Case No: 2025-0347

Site No: FS0265

Date of Visit: 18/09/2025

Main Insp: [REDACTED]

Registration/Authorisation Details

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

N

2. Changes made to details?

N

Site Details (include cleaner fish for all sections)

Total No facilities	69	Facilities stocked	32	No facilities inspected	69
Species	Atlantic salmon	Atlantic salmon			
Age group	Parr	Parr			
No Fish	1,015,725	634,000			
Mean Fish Wt	37g	7g			
Next Fallow Date (Site)	spring 2026		Next Input Date (Site)	unknown	
Recent (last 4 wks) disease problems?			Y	Any escapes (since last visit)?	N
If yes, detail:	Gill health issues				

Movement Records1. Movement records for **all species** held available for inspection?

Y

2. Date of last inspection:

27/08/2025

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 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 Records1. Mortality records for **all species** held available for inspection?

Y

2. How are mortalities disposed of?

Ensiled - on site

If other detail:

3. Mortality records complete and correctly entered?

Y

4. Recent mortality (last 4 wks):

see additional information

5. Evidence of recent increased/atypical mortalities?

Y

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

all small parr tanks (B tanks) - gill health and environmental insult.

6. Any other peaks in mortality during period checked?

N/A

If yes, detail:

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

Y

If yes, detail action:

samples taken and treatments given, FHI visit

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

Biosecurity Records

1. Biosecurity records available for inspection?	
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 <i>increased (unexplained)</i> 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 <i>how</i> and <i>when</i> 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).	
see additional information	
Records checked between:	
28/8/25-18/9/25	

Case no:

2025-0347

Site No:

FS0265

Date of visit/
Sampling:

18/09/2025

18/09/2025

Priority samples:

VI

BA

PA

MG

HI

Time sampling
starts/ends:

13:00:00

14:00:00

Main Insp:

VMD No.

4

Environmental conditions:

1

Indoors

2

3

4

5

Summary samples

HIST

Y

BA

Y

MG

Y

VI

Y

PA

Y

Total Samples

Add Fish/Pools - click button

Stock Details	Pool/Fish No	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	
	Fish nos	1	2	3	4	5	6	7	8	9	10	11-15	16-32
	Pool Group												
	Species	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL
	Average weight	8g	8g	8g	8g	8g	8g	8g	8g	8g	8g	8g	50g
	Sex												
	Water Type	FW	FW	FW	FW	FW	FW	FW	FW	FW	FW	FW	FW
		Inverpolly FS0264	Inverpolly FS0264	Inverpolly FS0264	Inverpolly FS0264	Inverpolly FS0264	Inverpolly FS0264	Inverpolly FS0264	Inverpolly FS0264	Inverpolly FS0264	Inverpolly FS0264	Inverpolly FS0264	Inverkerry Hatchery FS1061
	Stock Origin												
	Facility No	B2	B2	B2	B2	B2	B1	B1	B1	B1	B1	B1	H5

09/2025

Additional Sample Information:

No spleen in histo sample F1.

11

Total Tests assigned

10

[illegible]

Case no:	2025-0347	Site No:	FS0265	Method of killing:	Anaesthetic
Date of visit:	18/09/2025	Main Insp:		Sheet Relevant:	Y

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

Fish Number		1	2	3	4	5	6	7	8	9	10
Time sampled after death (if > 45 minutes)											
External Signs											
Behaviour	Moribund	S	S	S	S	S	S	S	S	S	S
	Lethargic	S	S	S	S	S	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	S	S	S	S	S	S	S	S	S	S
	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)	1	1	1	1	1	1	1	1	1	1
	Granulomas										
	Lesions										
Pyloric caeca	Petechial haem										
	Tubules mauve										
	Lack of fat										
Spleen	Enlarged										
	Granulomas										
Gut	No food present	S	S	S	S	S	S	S	S	S	S
	Yellow pseudo-faeces										
	External haem										
	Internal haem			S							
Body wall	Haemorrhaging										
Swim bladder	Haemorrhaging										
	Fluid filled										
Kidney	Swollen										
	Grey										
	Granular										
	Liquefied										
General	Parasites present										
	Anaemia										

Date of visit: 18/09/2025

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

Fish Number		11	12	13	14	15					
Time sampled after death (if > 45 minutes)											
External Signs											
Behaviour	Moribund	S	S	S	S	S					
	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	S	S	S	S	S					
	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)	1	1	1	1	1					
	Granulomas										
	Lesions										
Pyloric caeca	Petechial haem										
	Tubules mauve										
	Lack of fat										
Spleen	Enlarged										
	Granulomas										
Gut	No food present	S	S	S	S	S					
	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:

All fish sampled were removed from the mort tank pressed against the screen but still alive.

Case No:

2025-0347

Date of visit:

18/09/2025

Site No:

FS0265


Main Insp:

Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp
IHN PCR	0/5	24/09/2025		24/09/2025		03/11/2025		
VHS PCR	0/5	24/09/2025		24/09/2025		03/11/2025		
SAV PCR	0/5	24/09/2025		24/09/2025		03/11/2025		
IPN PCR	0/5	24/09/2025		24/09/2025		03/11/2025		
SPVP	5/5	24/09/2025		24/09/2025		03/11/2025		
GSAL	0/5	29/09/2025		21/10/2025		03/11/2025		
AERH	4/5	30/09/2025		21/10/2025		03/11/2025		
GPAT	5/5	30/09/2025		21/10/2025		03/11/2025		
HPAT	3/5	30/09/2025		21/10/2025		03/11/2025		
KPAT	4/5	30/09/2025		21/10/2025		03/11/2025		
LPAT	5/5	30/09/2025		21/10/2025		03/11/2025		
SPAT	4/5	30/09/2025		21/10/2025		03/11/2025		
AERO PCR	3/3	21/10/2025		21/10/2025		03/11/2025		
PSPE	2/5	21/10/2025		21/10/2025		03/11/2025		
LAPI	1/5	21/10/2025		21/10/2025		03/11/2025		

Report Summary			
Case Type	Date	Insp	2 nd Insp
Diag	05/11/2025		
VMD	10/11/2025		

Fish Health Inspectorate visit report

Summary for information of site operator

Business no:	FB0061	Date of visit:	18/09/2025
Site no:	FS0265	Site name:	Inverkerry Smolt Unit
Case no:	20250347	Inspector:	

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

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

Samples were taken to be analysed for veterinary residues.

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

Records

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

Medicine records were inspected and found to be adequately maintained.

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

Mortality records were inspected and found to be adequately maintained.

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

Signed: 

Date: 10/11/2025

Fish Health Inspector

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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/FishHealthInspectorateServiceCharter)

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UKAS Accredited Inspection Body - Type C No. 0269
Marine Laboratory, 375 Victoria Road, Aberdeen, AB11 9DB
Telephone – 0131 244 3498
Email – ms.fishhealth@gov.scot
[Fish Health Inspectorate Website](http://www.gov.scot/FishHealthInspectorateWebsite)

Fish Health Inspectorate visit report

Summary for information of site operator

Business no:	FB0061	Date of visit:	18/09/2025
Site no:	FS0265	Site name:	Inverkerry Smolt Unit
Case no:	20250347	Inspector:	

Section one: summary

Inverkerry Smolt Unit was visited following reported increased mortalities. Fifteen fish were removed for diagnostic examination.

Histopathology examination revealed features consistent with a systemic bacterial infection resembling *Aeromonas* sp.. Minor gill pathology was also observed.

Following on from the histopathology results, testing for *Aeromonas salmonicida* was requested by QPCR from histology blocks. These tested positive. The fish also tested positive for salmonid gill poxvirus by PCR.

Pseudomonas sp. and *Pseudolactococcus piscium* were both isolated on plates taken from the fish.

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

Inverkerry Smolt Unit had been reporting mortality increased mortality levels since August 2025 that were attributed to furunculosis. The inspectorate visited the site on 27/8/25. At the time of this visit the fish had received an antibiotic treatment and mortality on the site had improved. However, from 1st September mortality levels began to increase again and the cause was attributed to an environmental challenge and bacterial gill disease. A total of 343,184 fish had died in the week beginning 1/9/25 and 303,075 the week beginning 8/9/25. This mortality was mainly observed in the smaller parr held on site in the B section. It was reported that the fish in these tanks had been lethargic and unresponsive to human activity. During the site inspection about 15-30 moribund fish were observed in the mort removal side tanks in all of the B section. Fifteen of these moribund fish were removed for diagnostic examination.

R09

All of the fish removed had pale gills. Internally all the livers were pale and no food was observed in the guts.

Samples

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

Fish number	Facility number	Species	Stage	Origin
F1-F5	B2	Atlantic salmon	8g - parr	Inverpolly
F6-F15	B1	Atlantic salmon	8g - parr	Inverpolly

Results

Bacteriology:

Kidney and spleen material from fish F6 to F10 were inoculated onto appropriate media for the isolation of bacteria.

The following bacteria were isolated;

- *Pseudomonas* spp.: F7 & F10 (kidney and spleen)
- *Pseudolactococcus piscium*: F10 (kidney and spleen)

Fish 7- *Pseudomonas* spp. was identified at a level and purity of growth that would suggest this bacterium would be implicated in morbidity of fish.

Fish 10- *Pseudolactococcus piscium* and *Pseudomonas* spp. could be implicated in the morbidity of this fish.

Following observations made from the histopathology, *Aeromonas salmonicida* QPCR was run from histology blocks from F3, F4 and F5 (liver, kidney and spleen). All three fish tested positive for *Aeromonas salmonicida*.

Aeromonas salmonicida

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F3	20.14	22.12	22.21	22.18	POSITIVE
F4	20.90	23.74	23.57	23.59	POSITIVE
F5	20.79	20.85	21.10	21.07	POSITIVE

R09

Virology:

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

Salmon gill poxvirus (SGPV)

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F6	21.74	36.72	36.91	36.81	POSITIVE
F7	21.35	30.41	30.96	31.07	POSITIVE
F8	20.94	37.44	>40	38.14	POSITIVE
F9	21.58	39.30	38.15	39.25	POSITIVE
F10	21.29	30.38	30.33	30.29	POSITIVE

The samples tested negative for infectious haematopoietic necrosis virus (IHNV), infectious pancreatic necrosis virus (IPNV), 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, kidney and brain were taken from fish 1 to 5. The tissue samples were fixed in 10% neutral buffered formalin.

Histopathological examination revealed the following:

Gill: Several dense aggregates of Gram-negative rod-shape bacteria (F2-F5) and low level of inflammation observed in F2-F5. Small scatter foci of lamellar hyperplasia (F1-F5), some with bacteria (F2, F3, F5). Foci of necrosis also observed (F2).

Skin & Muscle: Red musculature exhibit foci of haemorrhage (F2, F3, F5).

R09

Heart: Few dense aggregates of Gram-negative rod-shape bacteria (F2-F4).

Gut and pyloric caeca: F4 exhibit one aggregate of rod-shape bacteria in the pyloric caeca fold.

Pancreas: No abnormalities detected.

Liver: Minor vasculitis (F1, F3). Few dense aggregates of Gram-negative rod-shape bacteria (F2-F5).

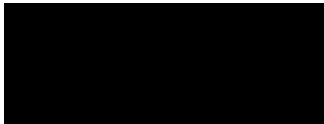
Kidney: Some foci of interstitial cell (haemopoietic) necrosis (F4, F5), F3 exhibited some foci of interstitial cell (haemopoietic) hyperaemia and few aggregates of rod-shaped Gram-negative bacteria (F2-F5).

Spleen: Several dense aggregates of Gram-negative rod-shape bacteria (F2-F5), focal area of necrosis (F2- F5).

Brain: No abnormalities detected.

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

Signed:



Date: 05/11/2025

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

R09