

Case No:	2025-0431	Date of visit:	05/11/2025			
Additional inspector(s):		Main Inspector:				
Site No:	FS0621	Site Name:	Loch A Chairn Bhain			
Business No:	FB0398	Business Name:	Loch Duart Plc			
Case Types:	1 DIA	2 REP	3	4	5	6
Water Temp (°C):	12	Thermometer No:	T307	FHI 045 completed	N/A	
Observations:	Region:	HI	Water type:	S	CoGP MA:	M-6
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.				
Post mortem signs observed?	<input type="checkbox"/>	If yes, see additional information/clinical score sheet.				
Diagnostic samples taken?	<input type="checkbox"/>					

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

Additional Case Information:

Recent mortality (last 4 weeks):

Wk 41; 977g □ 3.29% Sea lice/Sea lice treatment/AGD 25,533 Site currently treating with Salmosan □

Wk42; 1.1Kg □ 3.12% Sea lice/Sea lice treatment/AGD 23,376 Salmosan treatments completed. FW Bath planned

Wk43; 1.1Kg 4.87% Sea lice/Sea lice treatment/AGD 35,420 Salmosan treatments completed. FW Bath planned

Wk 44; 13%, 89805 across site attributed to AGD and sea lice

Wk45; 10.91% 65633 across site attributed to AGD and sea lice

No movements other than mortalities on or off site since last inspection. Mortalities are removed from site whole in sealed tubs to a skip at Badcall before being transported by Gogar for disposal.

On inspection of the site a number of moribund fish (estimate 100 per pen) were observed at the perimeter with in excess of 40 lice and white grazing damage was observed on the heads and behind the dorsal fins. When removed from the water the grazing damage was not visible. The rest of the fish in the pens were displaying increased jumping activity. Fish removed for diagnostic examination had ragged and slightly pale gills.

Inspection 5/11/25 - case paperwork 12/11/25 as health team were out visiting another site with FHI on day of inspection.

Vet visit conducted 16/10/25

Treatments; wk 22 salmosan, wk30 Slice, Wk37 FW and FLS and wk41-42 salmosan treatment, Six hour FW treatment and FLS treatment started 12/11/25 with the wellboat Kvaloy which was treating fish at Gob Na Hoe .

Main Insp: [REDACTED]

N

Total No facilities	16	Facilities stocked	16	No facilities inspected	8
Species	Atlantic salmon				
Age group	2025 S1				
No Fish	522,717				
Mean Fish Wt	1.04kg				
Next Fallow Date (Site)	Dec 2026	Next Input Date (Site)	spring 2027		
Recent (last 4 wks) disease problems?		Y	Any escapes (since last visit)?		N
If yes, detail:	Gill issues and heavy lice burden				

the movement records?

8. Have 'mortality events' been reported to FHI? If no, enter details on mortality events sheet.	Y
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Case no: 2025-0431Site No: FS0621Date of visit/
Sampling: 05/11/202505/

Priority samples: VI BA PA MG HI

Time sampling starts/ends: 11:30:0013:00:00Main Insp: VMD No. 0

Environmental conditions: 1 Indoors2345

Summary samples HIST Y BA Y MG Y VI PA 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	1kg	1kg	1kg	1kg	1kg							
	Sex												
	Water Type	SW	SW	SW	SW	SW							
		Ormsary smolt unit FS0575	Ormsary smolt unit FS0575	Ormsary smolt unit FS0575	Ormsary smolt unit FS0575	Ormsary smolt unit FS0575							
	Stock Origin												
	Facility No	2	2	2	10	10							

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[illegible]

Case no: 2025-0431

Site No: FS0621

Method of killing: Anaesthetic

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	4	5							
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	W	W	W	W	W							
	Scale Oedema												
Opercula	Shortened												
	Flared												
Haemorrhaging	Throat												
	Ventrum												
	Base of fins												
	Elsewhere												
Eyes	Exophthalmic												
	Enophthalmic (sunken)												
	Cataract												
	Haemorrhagic												
Gills	Pale	W	W	W	W	W							
	Zoned												
	Necrotic												
Lesions	Flank												
	Elsewhere												
Vent	Inflamed												
	Trailing faeces												
Lice Load	Estimate numbers	30+	30+	30+	30+	30+							
Internal Signs													
Ascites	Clear												
	Bloody	W			M								
Oedema	In tissues												
Heart	Pale/anaemic												
	Granulomas												
	Deformed												
Liver	Petechial haem												
	Gross haem												
	Tissue breakdown												
	Enlarged												
	Colour number(s)	7	8	8	7	7							
	Granulomas												
	Lesions												
Pyloric caeca	Petechial haem												
	Tubules mauve												
	Lack of fat												
Spleen	Enlarged	M	S	S		W							
	Granulomas												
Gut	No food present	S	S	S	S	S							
	Yellow pseudo-faeces	S	S	S	S	S							
	External haem												
	Internal haem	S	S	S	S	S							
Body wall	Haemorrhaging												
Swim bladder	Haemorrhaging												
	Fluid filled												
Kidney	Swollen												
	Grey												
	Granular												
	Liquefied												
General	Parasites present	S	S	S	S	S							
	Anaemia												

Case no: 2025-0431

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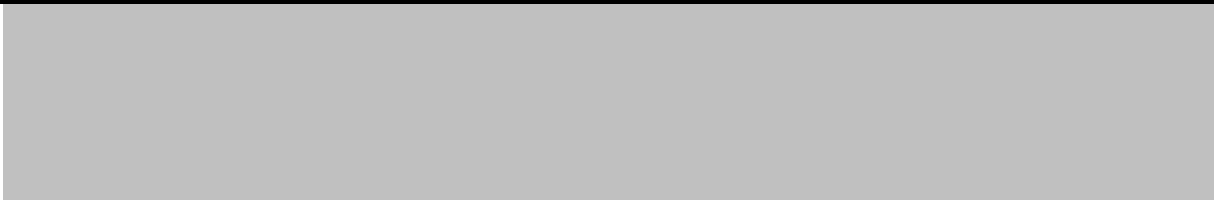
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	Anaemia																		

Additional comments:

Parasites present=leps.

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Nature of non-compliance:
Action taken (FHI):
Non-compliance relevant to (delete): VirologyMolGen/Bacteriology/Histology/Parasitology



Case No:

2025-0431

Date of visit:

05/11/2025

Site No:

FS0621

Main Insp:

Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp
MG AGD	5/5	11/11/2025		12/11/2025		25/11/2025		
MG IHN	0/5	11/11/2025		12/11/2025		25/11/2025		
MG ISA	0/5	11/11/2025		12/11/2025		25/11/2025		
MG Para Ther	5/5	11/11/2025		12/11/2025		25/11/2025		
MG Sal Pox	5/5	11/11/2025		12/11/2025		25/11/2025		
MG VHS	0/5	11/11/2025		12/11/2025		25/11/2025		
MG IPN	0/5	12/11/2025		12/11/2025		25/11/2025		
MG CMS	0/5	12/11/2025		12/11/2025		25/11/2025		
MG SAV	0/5	12/11/2025		12/11/2025		25/11/2025		
VSPE	4/5	18/11/2025				25/11/2025		
CGDH	5/5	21/11/2025				25/11/2025		
AMGD	5/5	21/11/2025				25/11/2025		
GPAT	5/5	21/11/2025				25/11/2025		
LPAT	5/5	21/11/2025				25/11/2025		
SPAT	4/5	21/11/2025				25/11/2025		
HPAT	4/5	21/11/2025				25/11/2025		

Report Summary			
Case Type	Date	Insp	2 nd Insp
REP, Diag	25/11/2025		

Fish Health Inspectorate visit report

Summary for information of site operator

Business no:	FB0398	Date of visit:	05/11/2025
Site no:	FS0621	Site name:	Loch A Chairn Bhain
Case no:	20250431	Inspector:	[REDACTED]

Section one: summary

Loch A Chairn Bhain was visited following reported mortality levels above the reporting threshold. On inspection many moribund fish were observed at the pen margins. Five of these moribund fish were removed for diagnostic examination.

Histopathological examination revealed mild, complex gill pathology with features consistent with amoebic gill disease (AGD). These observations were also confirmed by gill samples testing positive by qPCR for salmon gill poxvirus, *Neoparamoeba perurans* (AGD) and *Paranucleospora theridion*. Myocarditis, hepatocellular and splenic necrosis were also observed.

Vibrio sp. was isolated in the fish sampled.

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

A site visit was scheduled following reported mortality attributed to sea lice, sea lice treatments and AGD. This had peaked during week 44 at 13% for the site (89,805 fish) and week 45, 10.91% (65,633 fish).

On inspection, an estimate of 100 moribund fish were observed at the perimeters of each pen. These fish had heavy lice loads and white grazing damage on the head and behind the dorsal fin. Five of these moribund fish were removed for diagnostic examination.

Once removed from the water the grazing damage was not visible. Externally, they had ragged gills which were slightly pale. Internally, all fish had haemorrhaging of the hind gut with an absence of food and yellow pseudo faeces. Fish F1, F2, F3 and F5

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had enlarged spleens and bloody ascites was observed in the body cavity of fish F1 and F4.

Samples

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

Fish number	Facility number	Species	Stage	Origin
F1-F3	2	Atlantic salmon	2025 S1; 1kg	Ormsary Smolt Unit
F4-F5	10	Atlantic salmon	2025 S;1 1kg	Ormsary Smolt Unit

Results

Bacteriology:

Kidney and gill material from five fish was inoculated onto appropriate media for the isolation of bacteria.

The following bacteria were isolated:

- *Vibrio* sp. F1 and F3-F5 (kidney)

The level and purity of growth would suggest it may be implicated in the morbidity of fish F1 and F5 but not fish F3 and F4 where the level of growth was very light.

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)
F1	21.02	23.86	23.92	23.96	POSITIVE
F2	21.08	24.47	24.41	25.66	POSITIVE
F3	20.98	23.35	23.20	23.18	POSITIVE
F4	21.23	24.55	24.55	24.57	POSITIVE
F5	21.31	24.01	24.03	23.92	POSITIVE

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

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	21.02	26.76	26.88	26.84	POSITIVE
F2	21.08	27.33	27.46	27.64	POSITIVE
F3	20.98	27.01	27.01	26.87	POSITIVE
F4	21.23	27.04	27.22	27.08	POSITIVE
F5	21.31	27.09	27.15	27.11	POSITIVE

Paranucleospora theridion

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	21.02	26.81	26.87	26.87	POSITIVE
F2	21.08	25.08	25.06	25.10	POSITIVE
F3	20.98	24.55	24.54	24.58	POSITIVE
F4	21.23	26.58	26.67	26.73	POSITIVE
F5	21.31	24.70	24.74	24.54	POSITIVE

Histology:

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

They were examined by light microscopy and the following histopathological changes were observed:

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Gill: Lamellar hyperplasia, multifocal, mild (F1-F5) with presence of few amoeboid cells resembling *Neoparamoeba perurans* (F1-F5), F5 is more severely affected and lamellar adhesions (F4). Filament branchitis (F2). Few basophilic epithelial inclusions (likely epitheliocystis) (F3) and some vasculitis (F3). Some aneurysmal dilations and telangiectasias observed (F1, F2).

Skin & Muscle: Minor myositis (F1).

Heart: Myocarditis, minor, multifocal (F1, F2, F3, F5) and F5 exhibited two multinucleated giant cells. F5 displayed compact layer musculature degeneration. minor cellular inflammation at the compact-spongy layer junction, few thrombi (F2, F3, F5). Epicarditis, mild (F2, F3, F5).

Gut and pyloric caeca: Minor peritonitis (F1). Some cellular sloughing potentially associated with autolysis artefacts (all fish).

Pancreas: No abnormalities detected.

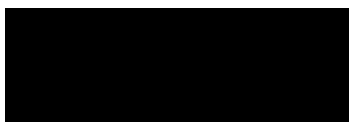
Liver: Hepatocellular necrosis, mild, multifocal (F1, F4, 5). mild, diffuse hepatocellular vacuolation (macroviscules) (F1- F4).

Kidney: Some interstitial cell (haemopoietic) necrosis (F1) and some renal tubule dilation (F5)

Spleen: Parenchymal necrosis, mild, multifocal (F1, F2, F4). Capsulitis (F1, F3) and one granuloma (F1).

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

Signed:



Date: 25/11/2025

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 \(www.gov.scot\)](https://www.gov.scot/publications/fish-health-inspectorate-service-charter/pages/1_to_4.aspx)

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