FHI 059, Version 13	Issu	ued by: FHI	Date of issue: 12/05/2020					
Case No: 2023-0029			Date of visit: 08/02/2023					
Time spent on site: 4	nours	Main Inspecto	r:					
Site No: FS1354 Business No: FB0125	Site Name: Business Name:	Shuna Point Scottish Sea Farms Ltd						
Case Types: 1 REP 2	DIA 3 VMD	4 5	6					
Water Temp (°C): 8.75	Thermometer No:	T307	FHI 045 completed					
Observations:	Region: ST	Water type: S	CoGP MA: M-36					
Dead/weak/abnormally behaving fish present?  Clinical signs of disease observed?  Gross pathology observed?  Diagnostic samples taken?  Y  If yes, see additional information/clinical score sheet.  Y  If yes, see additional information/clinical score sheet.  Y  If yes, see additional information/clinical score sheet.  Y  If yes, see additional information/clinical score sheet.								
UNI/REG only - if unable to carry	out intended visit detail rea	ason below:						

#### **Additional Case Information:**

Stock origin: Barcaldine Smolt unit, Stofinfiskur

Wrasse on site, wild caught from Orkney. Mortality on site low but furunculosis was observed on site and is attributed to spikes in mortality. Wrasse mortality since input- 5124

An inspection of the site was scheduled for the 08/02/2023 following repeated weeks of increased mortality above the reporting threshold. On site, pens 3, 7 and 8 were highlighted as the pens that had the highest mortality on site. Few moribund fish were observed in the pens, but those that were seen were lethargic and moribund. White ring-shaped lesions were also observed in some fish but only two were able to be caught for sampling with such lesions. 5 fish in total were removed and sampled for diagnostic purposes; 2 fish from pen 3, 1 fish from pen 8 and 2 from pen 7.

VMD samples taken from pen 3 and pen 8. Fish sampled were observed to be in a healthy condition.

FHI 059, Version 13		Issued by: FHI	D	ate of issue: 12/05/2020
Case No:	2023-0029 Site No	p: FS1354		
Date of Visit:	08/02/2023		Inspector(s):	
Registration/Autho	risation Details			
1. Business/site deta	ails summary checked by site repre	esentative?	Y	
2. Changes made to			N	
Site Details (includ	e cleaner fish for all sections)			
Total No facilities	8 Facilitie	es stocked	7 No facilities in	nspected 3
Species	SAL WRS			
Age group	2022 Q1 Wildcaught			
No Fish	295,595 15,112			
Mean Fish Wt	1.6kg MVG			
Next Fallow Date (Si	,	Next Input Da	, ,	
Recent (last 4 wks) of	-	Y	Any escapes (since last vis	sit)? N
If yes, detail:	CGD, AGD, PGD			
Movement Records				
1. Movement record	s available for inspection?			Y
2. Date of last inspec	·		2	9/06/2022
· ·	lete and correctly entered?			Y
	cords available for dead fish and w	vaste?		Y
5. Are records comp	lete and correctly entered?			Y
6. Are health certification	ates for introductions (outwith GB)	available?		N/A
Transport Records				
1. Are any movemen	its carried out by (or on behalf) of t	the business (not usi	ing a STB)?	
If yes, is there a syst	em in place for maintenance of tra	insportation records?	?	
Mortality Records				
1. Mortality records a	available for inspection?			Y
2. How are mortalitie	s disposed of?		Incinerated - on site	
If other detail:				
3. Mortality records of	complete and correctly entered?			Y
4. Recent mortality (		Wk5, 2.63%, 3410; V , 12848;	VK4, 1.92%, 5812; WK3, 1.2	27%, 3893; Wk2,
	t increased/atypical mortalities?	12040,		Y
	mortality per facility/no stock per fa	acility/reason:		
	est mortality over period of increas	•	GD attributed to cause of mo	ortality - mortality
_	to Wk 6 2023 (11 weeks), 42.16%	•	3D attributed to educe of first	Jitality Mortality
6. Any other peaks in	n mortality during period checked?			Y
	2023 Wk1, 6.72%, 23050; 2022 V	Vk52, 4.78%, 17195	; Wk51, 7.57%, 29475; Wk5	50, 4.23%, 17205;
	Wk49, 4.52%, 19246; Wk48,3.32°	%, 14641; Wk42, 1.4	46%, 6720; Wk41, 1.01%, 4	686; Wk40, 1.22%,
If yes, detail:	5740, Wk 39, 1.06%, 5021			
•	inexplained) mortalities been repoi	rted to vet or FHI?		N/A
If yes, detail action:				
8 Have 'mortality ev	ents' been reported to FHI? If no. 6	enter details on mort	ality events sheet	Y

FHI 059, Version 13		Issued by: FHI	Date of issue: 12/05/2020
Treatments and Medicin	nas Basarda		
1. Recent treatments (se			Ť
If yes, detail:	T.M.S.		
If other, detail:			
2. Medicines records ava	ilable for inspection?		Y
3. Are records complete	and correctly entered?		Y
4. Are fish in a withdrawa	I period?		Y
5. If yes, what treatment(	s)?	T.M.S.	
If other, detail:			
6. Are medicines stored a	appropriately?		Y
<b>Biosecurity Records</b>			
1. Biosecurity records ava	ailable for inspection?		

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		
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 Minister increased (unexplained) mortality at the site been included?	s or veterinary professional of any	
4. Has the action that will be taken in the event that the presence or suspic	ion of the presence of a listed disease	
is detected been included and <i>how</i> and <i>when</i> that will be notified to Scottis		
5. Has the health status of aquaculture animals being stocked on the farm	site been covered (equal or higher	
health status, certification if required)?		
C. Have the break and mond his account, and his account of his acc		
6. Have the husbandry and biosecurity measures implemented between eatransmission of disease been covered (movement of staff, visitors, equipm		
7. Is documentation available regarding the measures in place to maintain	· · · · · · · · · · · · · · · · · · ·	
aquaculture animals held on site?	the physical containment of	
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, t	the business?	Y
2. If yes, are results available for inspection?		Y
3. Any significant results?		Y
	CGD but more specifically AGD is prin	
	of issues. Winter lesions some fish but	
	spread samples are not positive. From	
	recent health screen conducted by vet	, negative

If yes, detail (if not detailed under recent disease problems). for PRV, A.salmonicida, SRS (18/01/2022).

> 29/06/2022-08/02/2023 Records checked between:

FII 009, Version 13						issueu by. Ffii							
	Case no:	2023-00	)29	Site No:		FS1354			Date of Samplin		08/0	02/2023	08/0
	Priority samples:	VI		ВА		PA		MG		ig. HI			
	Time sampling starts/ends:	10:1	1:00	11:2	0:00	l	Inspect	or:			VMD No	о.	7
	Environmental conditions:	1	Indoors	2		3		4		5			
	Summary samples	HIST	Y	ВА	Y	MG	Y	VI		PA		Total Sa	mples
A	dd Fish/Pools - click												
	Pool/Fish No	F1	F2	F3	F4	F5							
	Fish nos	1	2	3	4	5	6	7					
	Pool Group	P1	P2	P3	P4	P5							
	Species	SAL											
	Average weight	1.6kg											
	Sex	N/A											
	Water Type	SW											
		nit											
		t U	1	t U	t U	) <del>+</del>	t U	t U					
		Smolt Unit	Barcaldine Smolt Unit (FS1328)										
					S		S	S					
Details		line 8)	ji   (8	line 8)	line 8)	ji   (8	line 8)	line 8)					
)et		alc 32	alc 32	alc 32	alc 32	alc 32	alc 32	aldin 328)					
		Barcaldine (FS1328)	Barcaldine (FS1328)	Barcaldine (FS1328)	Barcaldine (FS1328)	Barcaldine (FS1328)	Barcaldine (FS1328)	Barca (FS1)					
Stock	Stock Origin Facility No		3 3	8 B B	7			8 8					
S)	Tracinty 140	3	J	0	1	1	3	O					

1111 000, 1	0.0.0.									100	aca by.		
)2/2023 Ad	02/2023 Additional Sample Information:												
5	5 Total Tests assigned 5												
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FHI 059, Version 13 Issued by: FHI Date of issue: 12/05/2020 Method of killing: Percussive Case no: 2023-0029 Site No: FS1354 Inspector(s): Sheet Relevant: Y Date of visit: 08/02/2023 S for strong presence: M for medium presence: W for weak presence Fish Number Time sampled after death (if > 45 minutes) External Signs Behaviour Moribund S S S Lethargic Hanging vertical Spiralling Flashing Loss of equilibrium М М М Body Dark Distended abdomen Anorexic Scale Oedema Opercula Shortened Flared Haemorrhaging **Throat** Ventrum Base of fins Elsewhere Exophthalmic Eyes Enophthalmic (sunken) Cataract Haemorrhagic Gills W Zoned Necrotic Lesions Flank Elsewhere Vent Inflamed Trailing faeces Estimate numbers Lice Load Internal Signs **Ascites** Clear **Bloody** Oedema In tissues Heart Pale/anaemic Granulomas Deformed Liver Petechial haem Gross haem Tissue breakdown Enlarged 4 Colour number(s) Granulomas Lesions Petechial haem Pyloric caeca Tubules mauve Lack of fat Spleen **Enlarged** Granulomas Gut No food present Yellow pseudo-faeces External haem Internal haem Body wall Haemorrhaging Haemorrhaging Swim bladder Fluid filled Kidney Swollen Grey Granular Liquefied Parasites present General

Anaemia

Case no: 2023-0029

Date of visit: 08/02/2023

Lethargic   Hanging vertical	Date of visit:	08/02/2023						
Fish Number time sampled after death (if > 45 minutes)	S for strong presen	ce: <b>M</b> for medium presence: <b>W</b> for v	٨					
Time sampled after death (if -45 minutes) Behaviour Lethargic Hanging vertical Spiralling Flashing Loss of equilibrium Body Dark Distended abdomen Anoxikie Anoxikie Soziae Codema Distended abdomen Anoxikie Heemorrhaging Heemorrhaging Elsswhere Eyes Exophthalmic Enophthalmic (sunken) Cataract Heemorrhagic Bills Pale Zoned Anoxikie Lesions Elsswhere Elsswh		inee. III for modium procence. It for	Y					
External Signs Behaviour  Lothargic  Hanging vertical  Sprailing Flashing  Loss of equilibrium  Dourk  Anorexic  Scale Onderna  Opercula  Shortended abdomen  Anorexic  Scale Onderna  Opercula  Shortended  Flared  Hanging vertical  Social Onderna  Opercula  Shortended  Flared  Hanging vertical  Social Onderna  Opercula  Social Onderna  Flared  Hanging vertical  Hanging v		er death (if > 45 minutes)						
Behaviour   Moribund		(iii iii iii iii iii iii iii iii iii ii						
Hanging vertical	Behaviour	Moribund						
Spiralling Flashing Loss of equilibrium Body Dark  Oistended abdomen Ancresic Scale Oodenna Opercula Flared Haemorrhaging Base of fins Elsowhere Escophthalmic (sunken) Cataraet Heemorrhagic Gills Pale Zoned Heemorrhagic Flared Hemorrhagic Flared Hemorrhagic Hemorrhagic Flared Elsowhere Went Inflamed Trialling faeces Lice Load Estimate numbers Horara Signs Bascies Glear Bloody Oedenna Hi tissues Horard Formed Gross haem Tissue breakdown Enlarged Corour Deformed Colour number(s)		Lethargic						
Flashing		Hanging vertical						
Loss of equilibrium								
Dark								
Distended abdomen Anorexic Scale Codema Scale Codema Stale Codema Flared Haemorrhaging Throat Ventrum Base of fins Elsewhere Elsewhere Escephthalmic (sunken) Cataract Cataract Cataract Lesions Flank Elsewhere Flank Elsewhere Vent Inflamed Trailing facces Lice Load Estimate numbers Lice Load Estimate numbers Lice Load Issues Heart Pate/anaemic Granulomas Deformed Liver Petechial haem Tissue breakdown Enlarged Coronumber(s) Coronumber(s) Coronumber(s) Coronumber Spice Petechial haem Trailing facces Trailing facces Deformed Lice Load Estimate numbers Lice Load In sissues Relice Instruction Relice Relice In	_							
Anorexic   Scale Codema   Decrease   Scale Codema   Decrease   D	Body							
Scale Oedema   Scale Oedema   Shortened								
Opercula   Shortened								
Flared	Opercula							
Haemorrhaging	Орегсија							
Ventrum	Haemorrhaging							
Elsewhere								-
Elsewhere		Base of fins						
Enophthalmic (sunken)		Elsewhere						
Cataract	Eyes	•						
Haemorrhagic								
Pale								
Zoned								
Necrotic	Gills							
Lesions								
Elsewhere	Lesions							
Vent         Inflamed         Inflamed <td< td=""><td>Lesions</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	Lesions							
Trailing faeces	Vent							
Lice Load								
Ascites   Clear	Lice Load							
Ascites   Clear								
Bloody	Internal Signs							
Intissues	Ascites							
Heart	0 1							
Granulomas								
Deformed	Heart							
Liver								
Gross haem	l iver							
Enlarged	2.70.							
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 Granular Liquefied General Parasites present Anaemia								
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 Grey Granular Liquefied General Anaemia		Colour number(s)						
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 Grey Granular Liquefied General Parasites present Anaemia								
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 Granular Liquefied General Parasites present Anaemia	Pyloric caeca							
Spleen Enlarged								
Granulomas Gut No food present Yellow pseudo-faeces External haem Internal haem Body wall Haemorrhaging Swim bladder Haemorrhaging Fluid filled Kidney Grey Granular Liquefied General Parasites present Anaemia	Snleer							
Gut         No food present	Spiceil							
Yellow pseudo-faeces  External haem  Internal haem  Body wall  Haemorrhaging  Swim bladder  Haemorrhaging  Fluid filled  Kidney  Grey  Granular  Liquefied  General  Parasites present  Anaemia	Gut							
External haem Internal haem Body wall Haemorrhaging Swim bladder Haemorrhaging Fluid filled Kidney Grey Granular Liquefied General Parasites present Anaemia								
Internal haem  Body wall Haemorrhaging Swim bladder Haemorrhaging Fluid filled Kidney Swollen Grey Granular Liquefied General Parasites present Anaemia								
Swim bladder Haemorrhaging								
Fluid filled  Kidney Swollen  Grey  Granular  Liquefied  General Parasites present  Anaemia	Body wall							
Kidney         Swollen	Swim bladder							
Grey Granular Liquefied General Parasites present Anaemia								
Granular Liquefied General Parasites present Anaemia	Kidney							
Liquefied Seneral Parasites present Sanaemia San								
General Parasites present Anaemia								
Anaemia	Conoral							
	General							
2002 0000 Clinical Coars Chast	2022 0020	Динасина						

FHI 059, Version 13	Issued by: FHI	Date of issue: 12/05/20
Additional comments:		
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Site No: FS1354

Case No: 2023-0029

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

Case No: 2023-0029 Date of visit: 08/02/2023 Site No: FS1354 Inspector: Results Summary Freq. Date of Notification Writing 2<sup>nd</sup> Insp Database Insp Phone Insp Insp AGDQ 3/5 13/02/2023 15/02/2023 10/03/2023 IHNP 0/5 13/02/2023 10/03/2023 15/02/2023 **IPNM** 3/5 10/03/2023 13/02/2023 15/02/2023 ISAQ 10/03/2023 0/5 13/02/2023 15/02/2023 10/03/2023 **PNST** 5/5 13/02/2023 15/02/2023 10/03/2023 **PMVP** 0/5 15/02/2023 13/02/2023 SPVP 5/5 13/02/2023 15/02/2023 10/03/2023 SALP 10/03/2023 0/5 13/02/2023 15/02/2023 0/5 10/03/2023 VHSP 13/02/2023 15/02/2023 5/5 10/03/2023 AMGD 24/02/2023 24/02/2023 24/02/2023 CGDH 3/5 24/02/2023 10/03/2023 10/03/2023 2/5 **EPIT** 24/02/2023 24/02/2023 2/5 10/03/2023 SULC 24/02/2023 24/02/2023 **PMCH** 1/5 10/03/2023 24/02/2023 24/02/2023 10/03/2023 VSPE (Isolate A) 3/5 07/03/2023 07/03/2023 10/03/2023 VSPE (Isolate B) 3/5 07/03/2023 07/03/2023 10/03/2023 VSPE (Isolate C) 3/5 07/03/2023 07/03/2023 Report Summary Case Type Date Insp 2<sup>nd</sup> Insp DIAG, REP 07/03/2023 VMD 07/03/2023





# FISH HEALTH INSPECTORATE VISIT REPORT

#### SUMMARY FOR INFORMATION OF SITE OPERATOR

 Business No
 FB0125
 Date of Visit
 08/02/2023

 Site No
 FS1354
 Site Name
 Shuna Point

 Case No
 20230029
 Inspector

# **Section 1: Summary**

The above site was inspected following reports of increased mortality by the farm operator. During the physical inspection of three pens, five fish were removed for diagnostic sampling.

Histopathology examination revealed mild, multifocal, hyperplasic branchitis. Epitheliocystis (likely *Ca.* Branchiomonas cysticola) and amoebic gill disease (AGD) were also observed. *Neoparamoeba perurans* (the causative agent of AGD) was confirmed in three tested fish by qPCR. Salmon gill poxvirus and *Paranucleospora theridion* were confirmed in all five tested fish by qPCR. Two fish displayed ulcerative dermatitis with presence of mixed Gram-negative bacteria. Mild, multifocal hepatocellular necrosis and necrotizing splenitis and some evidence of dehydration was also observed.

Three fish tested positive for infectious pancreatic necrosis virus (IPNV) by qPCR. No histopathological changes associated with infectious pancreatic necrosis (IPN) were observed.

Three *Vibrio* spp. isolates were also isolated but the level and purity of growth did not suggest they would be implicated in morbidity of 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 2: Case Detail**

#### Observations

Following reports of increased mortality above the reporting threshold, a site inspection was conducted. The three pens with the highest observed mortality were inspected and around 3-4 fish were observed around the sides of each pen. All fish removed for sampling were lethargic and moribund. In addition, some fish were noted to have white circular skin lesions on the flanks.

No lice were observed on the fish sampled. Gill condition of fish removed for sampling showed some pale gills with few white lesions observed on the tips. Open skin lesions were observed in F1 and F2 and sampled. Internally, all fish possessed yellow pseudofaeces present in the hind gut. Petechial haemorrhaging was also observed on F2 and F4.

## Samples

Samples were collected from F1-F5 fish according to the table below:

Fish number	Facility number	Species	Stage	Origin	
1-2	3	Atlantic Salmon	1.6kg 2022 Q1	Barcaldine Smolt Unit (FS1328)	
3	8	Atlantic Salmon	1.6kg 2022 Q1	Barcaldine Smolt Unit (FS1328)	
4-5	7	Atlantic Salmon	1.6kg 2022 Q1	Barcaldine Smolt Unit (FS1328)	

## **Results**

**Bacteriology:** Kidney and gill material from F1 to F5 were inoculated onto appropriate media for the isolation of bacteria. In addition, lesion material from F1 and F2 was inoculated onto appropriate media for the isolation of bacteria.

The following bacteria were isolated:

- Vibrio spp.:
  - o Isolate A: F1 & F2 (Kidney, Lesion);F4 (Kidney)
  - o Isolate B: F1 & F2 (Kidney, Lesion, Gill);F4 (Kidney)
  - o Isolate C: F1 (Kidney);F2 (Kidney, Lesion)

**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	15.66	37.08	35.67	35.47	POSITIVE
F2	15.60	21.00	21.13	21.14	POSITIVE
F3	16.31	35.07	34.69	34.95	POSITIVE
F4	-	-	-	-	Negative
F5	-	-	-	-	Negative

Salmon gill poxvirus (SGPV)

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	23.26	26.30	26.50	26.52	POSITIVE
F2	23.15	26.83	27.01	26.83	POSITIVE
F3	22.71	27.68	27.70	27.78	POSITIVE
F4	22.66	26.91	26.97	26.89	POSITIVE
F5	22.58	31.94	31.82	31.94	POSITIVE

The samples tested negative for infectious haematopoietic necrosis virus (IHNV), 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 (gPCR).

Neoparamoeba perurans (AGD)

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	23.26	34.61	34.93	34.89	POSITIVE
F2	-	-	-	-	Negative
F3	-	-	-	-	Negative
F4	22.66	35.47	35.78	35.81	POSITIVE
F5	22.58	35.55	36.59	35.92	POSITIVE

Paranucleospora theridion

Taranacicospora trichaion					
Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	23.26	26.82	26.81	26.91	POSITIVE
F2	23.15	27.70	27.76	27.81	POSITIVE
F3	22.71	30.57	30.80	30.59	POSITIVE
F4	22.66	28.61	28.65	28.72	POSITIVE
F5	22.58	29.98	29.84	29.80	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.

Histopathological examination revealed the following:

Gill: Lamellar hyperplasia and fusion, mild to moderate, multifocal to diffuse (F1-F5) and F5 also displayed foci of lamellar necrosis with mixed Gram-negative bacteria associated. F2 also displayed filament branchitis, chronic, mild, focal. Several basophilic epithelial inclusions (likely epitheliocystis) observed in F1 and to a lesser extension in F3 and occasional amoeboid cells resembling Neoparamoeba perurans and occasional Costia-like parasites observed in F1. Lamellar telangiectasia with multifocal thrombosis and free blood among gill filaments (F3-F5). Autolysis artefact were also observed.

Skin & Muscle: F1 & F2 lesion: Absence of the epidermis, oedema of dermis and a layer of mixed Gram-negative bacteria at the dermal outer layer and within dermis (F1 & F2), mild some inflammatory cell infiltrated (F2), foci haemorrhage on the dermis and hypodermis, Gram-negative mixed bacteria present on the dermal layer.

Heart: Very minimal area of fibre degeneration (F1), foci of cellular degeneration, mild (ventride) (F4), Mild pericarditis (F4). R09

UKAS accredited testing laboratory No. 1964 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

Gut and pyloric caeca: Very mild peritonitis F5.

Pancreas: Within the normal range.

Liver: Hepatocellular necrosis, mild, multifocal (F1, F2), foci of sinusoidal haemorrhage (F3, F5) some foci hepatocellular vacuolation (macrovisicules), multifocal (F1).

Kidney: Increased number of melanomacrophages (F1, F3, F5), some shrunken glomeruli (F1) and some amorphous pink material within the glomeruli vessels (F1).

Spleen: Necrotizing splenitis (F1), some peritonitis (F2).

Brain: Not sampled.

Eye: Not sampled.



Fish Health Inspector

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Marine Scotland website at <a href="https://www.gov.scot/publications/fish-health-inspectorate-service-charter/">https://www.gov.scot/publications/fish-health-inspectorate-service-charter/</a>

Date: 07/03/2023





# FISH HEALTH INSPECTORATE VISIT REPORT

### SUMMARY FOR INFORMATION OF SITE OPERATOR

 Business No
 FB0125
 Date of Visit
 08/02/2023

 Site No
 FS1354
 Site Name
 Shuna Point

 Case No
 20230029
 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:

Fish Health Inspector

Date: 07/03/2023

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Marine Scotland website at <a href="https://www.gov.scot/publications/fish-health-inspectorate-service-charter/">https://www.gov.scot/publications/fish-health-inspectorate-service-charter/</a>

# Diagnostic Sampling photos - 20230029:



Figure 1 Overview picture of a) fish 1, b) fish 2 and c) fish 3.

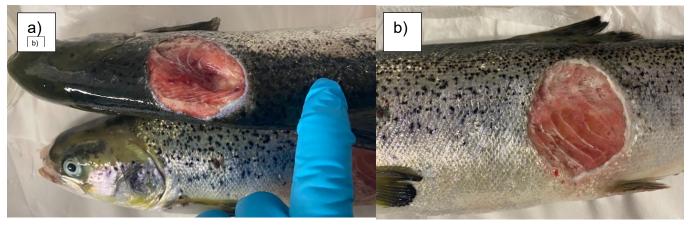


Figure 2 Pictures of lesions on a) Fish 1 and b) fish 3.

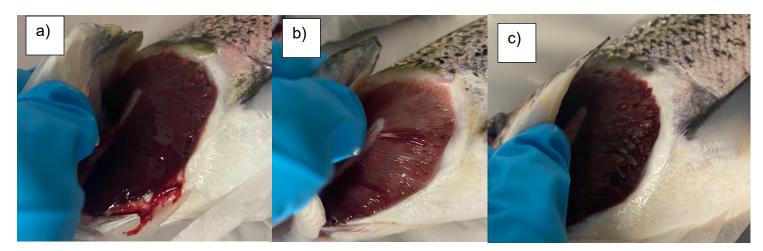


Figure 3 Pictures of gills from a) fish 1, b) fish 2 and c) fish 3.



Figure 4 Internal view of Fish 1



Figure 4 Internal view of Fish 2. Haemorrhaging on the liver can be observed.



Figure 6 Overview picture of a) fish 4 and b) fish 5.



Figure 7 Internal view of Fish 4, post sampling.



Figure 8 Internal view of Fish 5. Insert picture depicts haemorrhaging on liver.