FHI 059, Version 13	Issu	ied by: FHI	Date of issue: 12/05/2020
Case No: 2020-0499			Date of visit: 17/11/2020
Time spent on site: 4h	nrs	Main Insp	pector:
Site No: FS1256 Business No: FB0169	Site Name: Business Name:	Plocrapol The Scottish Salmon Com	npany
Case Types: 1 ECI 2	2 CNI 3 SLI	4 VMD 5 DIA	6
Water Temp (°C): 11	Thermometer No:	Site	FHI 045 completed Y
Observations:	Region: WI	Water type: S	CoGP MA: W-8
Dead/weak/abnormally behaving Clinical signs of disease observed Gross pathology observed? Diagnostic samples taken?	•	Y If yes, see additional	information/clinical score sheet. information/clinical score sheet. information/clinical score sheet.
UNI/REG only - if unable to carry	out intended visit detail rea	ason below:	

#### Additional Case Information:

Lumpfish came onto site from Otterferry over 2 inputs. 1st input october 2019, 2nd input April 2020.

Mortality over 1% since input:

30/3 - 1.86% - Treatment combined with PD and CMS

21/9 - 1.32% - Treatment combined with PD and CMS

05/10 - 3.97% - Treatment combined with PD and CMS

12/10 - 5.21% - Treatment combined with PD and CMS

Site has begun selective harvest. 4 cages harvested out over the last couple of weeks to reduce biomass on site. Remaining cages were split to reduce stocking density in each.

Site is also conducting prophylactic treatments for sea lice.

Live haul harvests taken to Arnish processing plant.

Numerous moribunds observed in almost every cage across the site. Many fish were displaying lesions, physical damage and were hanging around at the surface.

Site used a thermolicer earlier in the cycle, however experienced large mortalities suspected to have been linked to the presence of CMS in the population in combination with the stress of the treatment. Fish seem to be responding better to hydrolicer treatments.

Site not due to be fallow until summer next year, however, due to the poor health of stock on site, the site manager explained that it is highly likely the site will be harvested early and will likely be fallow by the end of this year/beginning of next year.

Site thermometer used as inspectors requires re-calibration.

Fish sampled for VMD appeared healthy and had a good feeding response.

FHI 059, Version 13	ı		Issu	ied by: FHI			Date of issu	ie: 12/05/2020
Case No:	2020-0499		Site No:	FS1256	3			
Date of Visit:		17/11/2020	)		Inspector(s):			ı
Registration/Autho	orisation Det	ails						
1. Business/site deta			site representa	ative?			Υ	1
2. Changes made to	•						N	1
Site Details (includ	le cleaner fis	sh for all sect	tions)					
Total No facilities		14	Facilities sto	ocked	12	No facilitie	es inspected	14
Species	SAL	LUM		T			T	
Age group	19 S0	19 S0						
No Fish	280,000	41,747						
Mean Fish Wt	2.65kg	25-30g						
Next Fallow Date (S		June 2021		Next Input Da	ate (Site)	Sep/Oct 2	021	
Recent (last 4 wks)	disease prob	lems?		Y	Any escapes	(since last	visit)?	N
If yes, detail:	HSMI, CMS	, PD						
<ul> <li>3. Are records comp</li> <li>4. Are movement re</li> <li>5. Are records comp</li> <li>6. Are health certific</li> <li>Transport Records</li> <li>1. Are any movement</li> <li>If yes, is there a sys</li> </ul>	ecords availab plete and corr cates for introd s nts carried ou	ole for dead fis rectly entered? ductions (outw ut by (or on be	sh and waste? ? with GB) availa chalf) of the bu	able? usiness (not us	•			Y Y Y N/A
Mortality Records								V/
1. Mortality records		•			Otto (datail)			Y
2. How are mortalitie					Other (detail)			
If other detail:				ebase then tal	ken to White s	hore cockie	s.	
3. Mortality records	•	1 correctly ente		22 (5.240() )4(	. 10. 05.040 (0	242() 14/1	11 17 005 (0	1
4. Recent mortality (	` ,			39 (5.21%), VVI	k43: 25,818 (8	.31%), VVK4	14: 17,925 (b.	7%), WK45:
5. Evidence of recer		• •						'
If yes, facility nos/no								
Post-treatment losse		, , , , , , , , , , , , , , , , , , ,		on site.				
6. Any other peaks i								'
If yes, detail:		nal information		a trat on EUI2				N/A
7. Have increased (	• •	mortalities be	en reported to	) vel of Fills				IN//
If yes, detail action:		a arted to EU	12 If no ontor	dataile en mor	tality ayanta ak			Y
8. Have 'mortality ev	zents been re	эропеа то гнг	🕜 II no, enter/	details on mor	tality events sr	ieet.		1

Troumonto ana modificio trovo do	
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
Diagonality Doggado	
Biosecurity Records  1. Biosecurity records available for inspection?	
<ul><li>2. Has the manner and frequency of mortality removal, recording and safe disposal been considered?</li></ul>	<u> </u>
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?	Y
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?	Y
5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or higher	Y
health status, certification if required)?	
6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minimise	Y
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	Y
aquaculture animals held on site?	
8. Have the biosecurity procedures been adequately implemented on site?	Y
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?	Ÿ
3. Any significant results?	Y
If yes, detail (if not detailed under recent disease problems).  CMS, PD, HSMI and gill health issues	identified on
zz, r.z.,	
Records checked between: 11/11/2019 - 10/11/2020	

FHI 059, Version 13 Issued by: FHI Date of issue: 12/05/2020

Case no:	2020-0499	]	Site No	D:	FS125	6	M	ethod of	killing:	Percus	sive
Date of visit:	17/11/2020	]	Inspec	tor(s):				s	heet Re	elevant:	Υ
<b>S</b> for strong presen	ce: <b>M</b> for medium presence: <b>W</b> for v	weak pres	sence								
Fish Number	· ·	F1	F2	F3	F4	F5					
	er death (if > 45 minutes)	45mins		75mins	85mins	95mins					
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					
	Scale Oedema										
Opercula	Shortened										
	Flared										
Haemorrhaging	Throat										
	Ventrum	W									
	Base of fins				W						
	Elsewhere										
Eyes	Exophthalmic										
	Enophthalmic (sunken)										
	Cataract										
	Haemorrhagic	VA/	\A/	NA.							
Gills	Pale	W	W	М	М	S					
	Zoned										
	Necrotic										
Lesions	Flank										
Vent	Elsewhere										
Vent	Inflamed										
Line Lond	Trailing faeces	4	3	6	10	7					
Lice Load	Estimate numbers	4	3	0	10	- 1					
Internal Signs											
Ascites	Clear										
Asciles	Bloody										
Oedema	In tissues										
Heart	Pale/anaemic	W	W								
licart	Granulomas	-									
	Deformed										
Liver	Petechial haem										
2.110.	Gross haem										
	Tissue breakdown										
	Enlarged										
	Colour number(s)	6	5								
	Granulomas										
	Lesions										
Pyloric caeca	Petechial haem										
	Tubules mauve										
	Lack of fat										
Spleen	Enlarged			W							
	Granulomas										
Gut	No food present										
	Yellow pseudo-faeces	W	М	М	М	M					
	External haem										
	Internal haem										
Body wall	Haemorrhaging										
Swim bladder	Haemorrhaging										
	Fluid filled										
Kidney	Swollen										
	Grey										
	Granular										
	Liquefied										
General	Parasites present										
	Δnaemia										

Case no: 2020-0499

Date of visit: 17/11/2020

Date of visit.	17/11/202	.0					
S for strong prese	nce: M for medium presence: W fo	rw					
Fish Number							
Time sampled aft	ter 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						

FHI 059, Version 13		Issued by: FHI			Date of	of issue	: 12/05/2020
Case Number:	2020-0499		Site No:	FS1256		Insp:	
Date of Visit	17/11/2020		No of m	ovements/s	supp./dest.		Score
Live fish movements			C	1-5	6-10	>10	
Movements on (from out	Frequency of m	novements on from equivalent MS	C	5	10	14	0
with GB) of susceptible species		novements on from equivalent zone of acluding third country		9	18	26	
	Number of supp					14	0
Movements off	Frequency of m	novements off	C	3	6	10	10
Wovernonie on	Number of dest		C		6	10	3
Exposure via water	•	Site contact	ts 0	1-5	6-10		
Water contacts with other farms (holding species	disinfection or b	,	С				
susceptible to same diseases)	farms upstream	or in a coastal zone with category I or within 1 tidal excursion	1	2	4		4
	farms upstream	or in a coastal zone with category III or within 1 tidal excursion	1	3	6		
		or in a coastal zone with category V n or within 1 tidal excursion	1	4	8		
Management practices			None	Secure	Unsecure		
Water contacts with processors	Any processing	plant discharging into adjacent water	rs (	1	2		0
On farm processing within the rules of the directive	No on farm pro-		С				0
	Processing owr	n fish (re-cycling risk)	1				
		from MS of equivalent status	2				
	Processing fish equivalent statu	from zone or compartment of	4				
		from Category III farm	8				
	Processing fish	from Category V farm	10	4			
Disposal of fish and fish by-	Site's own wast	te only processed.	C	<u>-</u>			
products	Common proce	esses with other farms	3				3
	Collection point	t for waste from other farms	5				
Use of unpasteurised feeds	No feeding of u	npasteurised feed	C	1			0
	Feeding unpast	teurised feed	5				
Biosecurity		Number of site	es 1	2 or 3	≥ 4		
Contacts with other sites	Sites operating	from single shorebase	C	1	2		1
	Sites sharing st	taff and equipment	С	1	2		1
Disinfection of equipment	Yes		C				0
between sites, use of footbaths etc	No		1				
CoGP/Regulator							
Practices in accordance	Yes		С				0
with regulator or industry code of practice	No		3				
Platform access to cages	Yes		C				0
	No		2				
					Total		22
					Rank		MEDIUM

Case No:	2020-0499	Site No: FS1256	
0430 140.	2020 0433	Site 140.	
Sea Lice Inspection	(Seawater Sites Only)		
1. Has the site experi	enced sea lice problems	s in the previous 4 years?	N
2. Is the CoGP Farm	Management Area (or ed	quivalent) fallowed synchronously on a single year class basis?	Υ
	<u> </u>	enced in-feed and bath sea lice medications (including deltamethrin,	Υ
azamethiphos and en	namectin benzoate) as v	well as access to suitable biological and/or mechanical control measures, and	t
4. Is there a signed de Management Area (o		ement agreement or statement relevant to the site and CoGP Farm	Υ
5. Are sea lice count	records available for insp	pection? (Legal SSI, CoGP Annex 6)	Υ
6. Do records adequa	tely reflect the required	standard specified in the SSI and the CoGP? (Legal SSI, CoGP Annex 6)	Υ
7. Are sea lice ( <i>L. sal</i> records are inspected		ow the suggested criteria for treatment in the CoGP during the period that	Υ
		monis) numbers per fish been at a level of 3 or above (prior to w/b 10/6/19) or dealth Inspectorate? If no, FHI see comment.	Υ Υ
	·	is considered to cause significant welfare problems? (CoGP 4.3.81, 5.3.50)	N
10. Have therapeutic	treatments been adminis	stered or other actions taken when <i>L. salmonis levels</i> have exceeded the <i>elongatus</i> is considered to have welfare implications? (CoGP 4.3.82, 5.3.51)	Υ
11. Has any other act	ion been taken (where a	applicable)?	Υ
12. Have therapeutic	treatments or the actions	s taken had a significant impact upon the lice levels recorded?	Υ
13. Are treatments, w	here conducted, carried	out in cooperation between participating farms?	Υ
	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	where fewer populations or part populations are held without treatment for	Υ
•	·	ement procedure with waypoints describing set actions to deal with recognised	d Y
16. Do the sea lice le	vels observed on stocks	reflect sea lice count data? If no please detail reasons.	Υ
Containment Inspec	tion		
•		ge due to predators in the current or previous production cycles?	N
2. Are measures in pl	ace to mitigate against t	he predation experienced on site? (Detail below)	Υ
Tension nets, OTE	Q		
f other, detail below	v:		
·	·	perienced on or in the vicinity of the site since the last FHI inspection?	N
	uestions 4 – 9. If No skip eported to Scottish Minis	·	
	•	orthwith (where they exist)? (CoGP – 4.4.37, 5.4.17)	
	•	d local fisheries trusts forthwith (where they exist)? (CoGP – 4.4.37, 5.4.17)	
o. Have these been to		a local honories trade for thinkin (where they exist): (OOCI 4.4.07, C.4.17)	
7. Were methods (if a	any) used to recover esca	apees? If yes give detail	
8 If all note were der	loved was this action as	greed with local wild fish interests and was permission given by Scottish	
Ministers? (Legal, Co	GP – 4.4.38, 5.4.18)		
	•	mise the risk of further escapes? (Not covered in code but could	
	er satisfactory measur	•	V
IU. Is the site inspect	ed as satisfactory with re	egards to containment? If no, please detail reason(s)	Υ

Issued by: FHI

Date of issue: 12/05/2020

FHI 059, Version 13

FHI 059, Version 13	Issued by: FHI	Date of issue: 12/05/2020
	Site No: FS1256	Date of 133de. 12/00/2020
Case No. 2020-0433	Site 140. 1 3 1230	
Date of Visit: 17/11/2020	Inspector:	
Point of Compliance		
1. Is the farm under inspection located wi	ithin a farm management area?	Y
If N, no further questions require complet		
•	Management Agreements and Statement	
<ol><li>Has a current farm management agree</li><li>Is the current FMAg/S available for ins</li></ol>	ement or statement (FMAg/S) been prepar	eu! Y
4. Does the FMAg/S identify the relevant	•	Y
5. Does the FMAg/S identify the fish farm	•	Y
•	commencement of the agreement or staten	nent?
7. Does the FMAg/S identify the date of re	eview?	Y
Arrangements for Fish Health Manage	ment	
8. Does the FMAg/S identify the minimum	m health standards for the stocks to be intro	oduced to the area or Y
farm?	Control Control Control of the Late Control	V
•	tion requirements for stocks held in the area s of fish which may be stocked into the area	
	um stocking density of any pen on any farn	
individual farm?		
•	ements for the storage and disposal of any	dead fish from any
fish farm in the area or the individual farr	m?	
Arrangements for The Management of	Sea Lice	
13. Does the FMAg/S identify arrangeme	ents for the sharing of data on sea lice num	bers and treatments?
14. Does the EMAg/S identify the availab	oility and the use of medicines on farms cov	vered by the agreement
of statement?	mity and the use of medicines of fairns cov	relea by the agreement
15. Does the FMAg/S identify any require	ements for the sensitivity testing of available	e treatments for sea
lice on farms in the area or individual farn		
<ol><li>Does the FMAg/S identify the circums used on farms in the area or individual fa</li></ol>	stances under which biological controls and	d cleaner fish are to be
	ements for synchronous treatments on farn	ns within the area?
2 2 2 2		,
Live Fish Movements		
18. Does the FMAg/S identify the circums area or farm?	stances when live fish may be introduced o	
	ements for the movement of live fish on and	d off sites in the area
or individual farms?		

FHI 059, Version 13	Issued by: FHI	Date of issue: 12/05/2020
Harvesting 20. Does the FMAg/S identify acceptable	harvest practices on farms in the area or indiv	idual farms?
date when a farm or area may be restock 22. Does the FMAg/S identify whether on agreement or statement?	y which the area or individual farm will be fallowed? e or more year classes may be stocked onto soodstock or potential broodstock are to be kept	ites covered by the Y
Point of Compliance for Farm Manager 24. Does the farm management agreeme parties to the agreement?	ment Agreements Only ent include arrangements for persons to becom	ne, or cease to be, N/A
Management and operation 25. Is the fish farm being managed and o 26. What is the version no/date of issue o	perated in accordance with the agreement or softhe FMAg/S?  09/09/2019	statement? Y

									uou by.				
	Case no:	2020-04	199	Site No:		FS1256			Date of Samplin		17/1	1/2020	17/
	Priority samples:	VI		ВА		PA		MG		y. HI			
	Time sampling starts/ends:	11:3	0:00	13:3	80:00	1	Inspect	or:			VMD No	).	15
	Environmental conditions:	1	Wet	2	Windy	3	Cloudy	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	P1	F6	F7				
	Fish nos	1	2	3	4	5	1-5						
	Pool Group	P1	P1	P1	P1	P1							
	Species	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL				
	Average weight	2.65kg	2.65kg	2.65kg	2.65kg	2.65kg		2.65kg	2.65kg				
	Sex												
	Water Type	SW	SW	SW	SW	SW	SW	SW	SW				
		4	4	4	4	4			4				
		125	25	125	FS1254	125		95	25				
		\S-1	\ -S-	\S-1	-S-	\S-1		FS1295	-S				
			<u> </u>		<u> </u>				T.				
Details		<u>a</u>	<u>8</u>	<u>8</u>	8	<u>8</u>		āy	od.				
et:		Е Ш	<u> </u>	ш	ш	Ш		lab	Ш				
X L	Charle Origin	Outer Eport FS1254	Outer Eport FS1254	Outer Eport FS1254	Outer Eport	Outer Eport FS1254		Scadabay	Outer Eport FS1254				
Stock	Stock Origin Facility No	14	12		14	10		<u>0</u>	10				
S	I donity NO	14	ΙZ	10	14	10		I	10				

11/2020	Addition Percus	nal Sam sive blov	ple Infoi w.	mation:						
8	]	Total To	ests ass	signed	2					

Site No: FS1256 Case No: 2020-0499

Nature of non-compliance: Action taken (FHI):

Non-compliance relevant to (delete): VirologyMolGen/Bacteriology/Histology/Parasitology

Case No:	2020-0499			Date of visit:	17/11/2	2020						
Site No:	FS1256	٦		Inspector:								
		_	Date of Notification									
Results Summary	Freq.	Database	Inon	Phone	_	Writing	Inon	and .				
		Dalabase	Insp	riione	Insp	vviiting	Insp	2 <sup>nd</sup> Insp				
MG IHN	0/1	24/11/2020	)	24/11/2020		11/12/2020						
MG IPN	0/1	24/11/2020	)	24/11/2020		11/12/2020						
MG ISA	0/1	24/11/2020	)	24/11/2020		11/12/2020						
MG VHS	0/1	24/11/2020	)	24/11/2020		11/12/2020						
MG SAV	1/1	24/11/2020	)	24/11/2020		11/12/2020						
AMGD	1/5	02/12/2020	)	03/12/2020		11/12/2020						
CGDH	5/5	02/12/2020	)	03/12/2020		11/12/2020						
EPIT	3/5	02/12/2020	)	03/12/2020		11/12/2020						
HPAT	3/5	02/12/2020	)	03/12/2020		11/12/2020						
LPAT	5/5	02/12/2020	)	03/12/2020		11/12/2020						
SALH	3/5	02/12/2020	)	03/12/2020		11/12/2020						
PMCH	5/5	02/12/2020	)	03/12/2020		11/12/2020						
CMPS	1/5	02/12/2020	)	03/12/2020		11/12/2020						
MG PMCV	1/1	01/12/2020	)	03/12/2020		11/12/2020						
MG PRV	1/1	01/12/2020	)	03/12/2020		11/12/2020						
NSIG	2/5	07/12/2020	)	07/12/2020								
PSFL	3/5	07/12/2020	)	07/12/2020		11/12/2020						
		1										
		1										
Report Summary				1								
Case Type	Date	Insp	2 <sup>nd</sup> Insp									
ECI, CNI, SLI, VMD	18/11/2020		2 1110P									
DIA	07/12/2020											
<del></del>	3., 12,202											
	+											





17/11/2020

Plocrapol 20200499

The Scottish Salmon Company 1 Smithy Lane Lochgilphead Argyll PA31 8TA

# FISH HEALTH INSPECTORATE VISIT REPORT

#### SUMMARY FOR INFORMATION OF SITE OPERATOR

DATE OF VISIT

SITE NAME

CASE NO

BUSINESS NO FB0169
SITE NO FS1256
INSPECTOR

# **Section 1: Summary**

Five moribund fish were removed for diagnostic sampling. Recent mortalities on the site had been attributed to PD and CMS.

Histopathology examination revealed mixed pathology. All fish showed evidences of complex gill issues with mild, multifocal, necrotizing hyperplasic branchitis, presence of epitheliocystis and mild amoebic gill diseases. Fish also displayed evidences of pancreas diseases (PD) and cardiomyopathy syndrome (CMS), confirmed by positive QPCR results for the salmonid alphavirus (SAV) and the piscine myocarditis virus (PMCV). Multifocal, necrotizing hepatitis and mild peritonitis (likely associated with vaccine administration) were also noted. Positive results for the piscine reovirus (PRV), the causative agent for heart and skeletal muscle inflammation (HSMI), was also detected by QPCR. However, histopathology results were not consistent with HSMI disease.

Pseudomonas fluorescens was identified on plates taken from gill material of 3/5 fish, however the level and purity would not suggest it would be implicated in morbidity.

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**

The above site was inspected following reported mortality events attributed to PD and CMS. The site reported increased mortality above the reporting threshold every week from the 5<sup>th</sup> October 2020 to 9<sup>th</sup> November 2020, totalling 756, 500 mortalities across the site during that time; with an average weekly mortality rate of 4.4%. The site has since begun harvesting, prioritising the worst affected pens.

A number of lethargic and moribund fish were observed across the site, the majority of which were displaying lesions. Five fish were removed for diagnostic sampling. Externally, all fish apart from fish four, appeared underweight and all the fish sampled displayed torn fins. Fish one had a sunken left eye, fish two's left eye was completely absent and fish four had a ruptured left eye. Fish one and four displayed mild haemorrhaging on the ventral surface and at the base of the fins respectively, and all fish displayed pale gills. All the fish had a low lice load, with fish four having the highest, estimated at around ten.

Internally, fish one and two had pale/anaemic hearts and fish three had an enlarged spleen. All five fish had yellow pseudo-faeces in the gut.

## Samples

Samples were collected from 5 fish according to the table below:

Fish number	Pool number	Facility number	Species	Stage	Origin
1 & 4	1	14	Atlantic salmon	2019 S0 / 2.65kg	Outer Eport FS1254
2	1	12	Atlantic salmon	2019 S0 / 2.65kg	Outer Eport FS1254
3 & 5	1	10	Atlantic salmon	2019 S0 / 2.65kg	Outer Eport FS1254

### Results

**Bacteriology:** Kidney and gill material from five fish were inoculated onto appropriate media for the isolation of bacteria. The following bacteria was isolated from the gills of fish 1, 4 & 5:

#### Pseudomonas flourescens

**Virology:** Tissue samples were tested for segments of nucleic acid indicative of the presence of the pathogens specified below using real-time PCR (QPCR):

#### Salmonid alphavirus (SAV)

Pool Number	Endogenous control Cp value		Reported Result (PCR)		
P1	19.54	38.19	36.84	38.18	POSITIVE

#### Piscine reovirus (PRV)

Pool Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
P1	17.62	34.30	34.33	34.22	POSITIVE

Piscine myocarditis virus (PMCV)

Pool Number	Endogenous control Cp value		Reported Result (PCR)		
P1	17.62	17.50	17.29	17.27	POSITIVE

Subsequent sequencing for PMCV showed 99.36% identity to Norwegian PMCV isolates.

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

**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.

Tissues from 5 Atlantic salmon were examined by light microscopy. The following histopathological changes were observed:

<u>Gill:</u> Mild multifocal interlamellar hyperplasia with spaces (lacunae) occasionally filled with cell debris and lamellar fusion (F2-F5), some hyperplasic plaques displayed foci of mild necrosis and spongiosis, moderate displacement of chloride cells and hypertrophy noted in all individuals. Amoebic cells resembling *Neoparamoeba perurans* were noted in F2 and moderate numbers of basophilic epithelial inclusions (likely epitheliocystis) (F2, F3, F5). Several scattered aneurysmal dilation/telangiectasia noted in all individuals and gills displayed some evidences of post-mortem artefact.

<u>Skin & Muscle:</u> Moderate multifocal myofibre degeneration, inflammation and fibrosis of endomysium of white muscle fibres and minimal inflammation of endomysium skeletal red muscle fibres (F1).

<u>Heart:</u> Sever diffuse myocardial fibre degeneration and inflammation of the spongy layer with influx of mononuclear cell infiltrate and marked endocarditis (F1). F2 and F4 displayed mild, multifocal, myocardial fibre degeneration and presence of few nests of basophilic nuclei, indicative of inflammation.

<u>Gut and pyloric caeca:</u> Some fibrous adhesions (likely associated with vaccine administration) (F5).

Pancreas: Small foci of pancreatic acinar cell necrosis (F3).

<u>Liver:</u> Minimal to moderate multifocal hepatic necrosis (F1, F3-F5) and mild diffuse hepatocyte vacuolation (macrovisicules) (F1-F5).

Kidney: Within normal range.

Spleen: Slightly congested (F1 & F4).



Signed: Date: 11/12/2020

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>





The Scottish Salmon Company 1 Smithy Lane Lochgilphead Argyll PA31 8TA

# FISH HEALTH INSPECTORATE VISIT REPORT

### SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NO FB0169 SITE NO FS1256 INSPECTOR 
 DATE OF VISIT
 17/11/2020

 SITE NAME
 Plocrapol

 CASE NO
 20200499

# Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

The above site was inspected, in accordance with the Aquatic Animal Health (Scotland) Regulations 2009, and to meet the requirements of European Community Council Directive 2006/88/EC.

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 surveillance frequency category of the site was assessed as medium. An inspection under the Aquatic Animal Health (Scotland) Regulations 2009 will be conducted every second year. The category of the site will be reassessed on a routine basis and updated as required.

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 adequately maintained.

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 Scotland were available for inspection.

The biosecurity measures plan for the site was inspected and found to be adequately maintained and implemented.

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

Medicine records were inspected and found to be adequately maintained.

Samples were taken to be analysed for veterinary residues.

## Inspection under the Aquaculture and Fisheries (Scotland) Act 2007

The site was also inspected in accordance with the Aquaculture and Fisheries (Scotland) Act 2007, as amended, with respect to section 3 regarding parasites (sea lice), section 4A regarding fish farm management agreements and statements and section 5 regarding containment and escapes.

On this occasion the site was found to be satisfactory with regards to parasites, fish farm management agreements and statements and containment and escapes.

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: 18/11/2020

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>















