FHI 059, Version 13	Issi	ued by: FHI	Date of issue: 12/05/2020				
Case No: 2021-0470			Date of visit: 01/11/2021				
Time spent on site:	hrs	Main Inspecto	or:				
Site No: FS0090 Business No: FB0061	Site Name: Business Name:	Ormsary Broodstock Unit Landcatch Natural Selection L	td				
Case Types: 1 ECI	2 CNI 3 SLI	4 VMD 5 DIA	6				
Water Temp (°C): 11.9	Thermometer No:	Site	FHI 045 completed				
Observations:	Region: ST	Water type: B	CoGP MA: M-44				
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.							
UNI/REG only - if unable to carry	out intended visit detail re-	ason below:					

Additional Case Information:

Due to site biosecurity used site thermometer.

Stock details as dated 27/10/21, movement records collected 1/11/21, remaining records checked on 09/11/21 and supplied 14/11/21.

Harvest strategy not required, land based site in tanks can easily treat and have control on the water that is taken from the sea. Broodstock site so no harvesting takes place normally from the site.

Lethargic fish were observed in tank F1 and removed for diagnostic sampling. Site manager informed me that the mortality reporting threshold had been breached the previous week. 2021 yearclass had been experiencing mortality and samples had been collected by the biologist to determine the cause, which was still unknown at the time of visit. All other year classes on site appeared to be unaffected with low mortality.

Following on from a positive QPCR result for ISA, the HPR region was sequenced. The ISA HPR type has been determined to be HPR0 (non-deleted type).

FHI 059, Version 13			Issu	ued by: FHI			Date of issue	e: 12/05/2020
Case No:	2021-0470]	Site No:	FS0090				
Date of Visit:		01/11/2021]		Inspector(s)):		l
Registration/Autho	risation Deta	ails						
1. Business/site deta	ails summary	checked by s	ite represent	ative?			Υ	
2. Changes made to	•	·	·				N	
Site Details (includ	e cleaner fis	h for all sect	ions)					
Total No facilities		21	Facilities sto	ocked	12	No facilitie	s inspected	21
Species	SAL	SAL	SAL					
Age group	2019	2020	2021					
No Fish	1,100	6,100	9,900					
Mean Fish Wt	10.5kg	7.1kg	1.7kg					
Next Fallow Date (S		none		Next Input Da	te (Site)	April 2022		
Recent (last 4 wks)		lems?			_ ` ′	s (since last		N
If yes, detail:			s have been o	collected by bio		,	,	
Movement Records	•							
Movement record		r inspection?						Y
2. Date of last inspe		inopeodon:					16/10/2019	
3. Are records comp		ectly entered?	>				10/10/2013	Y
4. Are movement re		•		2				N/A
5. Are records comp				•				N/A
6. Are health certific		•		able?				N/A
o. Are fleath certific	ates for introd	auctions (out	viti GD) avail	able:				14/71
Transport Records								
1. Are any movemen					-			Y
If yes, is there a sys	tem in place f	for maintenan	ce of transpo	rtation records	?			Y
Mortality Records								
1. Mortality records		•				.,		Y
2. How are mortalitie	es disposed d	of?			Incinerated	- on site		
If other detail:			10					V
3. Mortality records	•	correctly ent						Y
4. Recent mortality (•			orts, 0.11%; wl	<42 - 15 mor	ts, 0.09%; wl	k43 - 57 morts	
5. Evidence of recer		* *		,				Y
If yes, facility nos/no		•		//reason:				
wk44 see above, inc								
6. Any other peaks i								Y
				SW Post transfe				
				0SW data capt	•			
			•	– week 50 – 1.	•	•	•	
			_	e graded and cu	illed. 2021 –	week 17 – 1	.21% (243 mc	orts) OSW
If yes, detail:	post transfe	r mort's (not r	equired to be	reported).				
•	unavalainad)	martalitica ha	an ranartad t	o vict or FUID				\vee
7. Have increased (u	unexplained)					ma n ut n tr .		1
If yes, detail action:	rontal hass			oing increased				N I
8. Have 'mortality ev	rents been re	ported to FHI	r ii no, enter	uetails on mort	anty events s	sileet.		N

FHI 059, Version 13	Issued by: FHI	Date of issue: 12/05/2020
_ , , , , , , , , , , , , , , , , , , ,		
Treatments and Medicines Records		
1. Recent treatments (see comment)?		Y
If yes, detail: T.M.S.		
If other, detail:		
2. Medicines records available for inspect	ion?	Y
3. Are records complete and correctly ent	ered?	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		
1. Biosecurity records available for inspec	tion?	Y

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
Biosecurity Records	
1. Biosecurity records available for inspection?	Y
2. Has the manner and frequency of mortality removal, recording and safe disposal been considered?	Y
3. Has the manner and period in which the APB will notify Scottish Ministers or veterinary professional of any	N N
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 health status, certification if required)?	ı
riediti status, certification ii 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?	Y
3. Any significant results?	N
If yes, detail (if not detailed under recent disease problems).	
April 2021 - Histology samples with some gill pathology noted of undetermined cause, possible environmental or h	nandling.

16/10/2019 - 1/11/21 Records checked between:

	11 009, VEISIOII 13							133	ией бу. г	1 11			
	Case no:	2021-04	470	Site No:		FS0090			Date of v		01/	11/2021	01/
	Priority samples:	VI		ВА		PA		MG	Jampiin	y. HI			
	Time sampling starts/ends:		00:00		0:00		Inspecto	or:			VMD No	o. [1
	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	I=.											
	Pool/Fish No	F1	F2	F3	P1								
	Fish nos	1	2	3	1-3	4							
	Pool Group	P1	P1	P1									
	Species	SAL	SAL	SAL	SAL								
	Average weight	1kg	1.2kg	1.2kg		1.4kg							
	Sex	female	female	male		N/A							
	Water Type	SW	SW	SW		SW							
Stock Details		그 Langass Hatchery	1- Langass Hatchery	그 Langass Hatchery	Langass Hatchery	ದ Langass Hatchery							
S	I dollity 140	П	ГΙ	Г		гэ							

	1711 000, Volume 10												
11/2021	Addition	nal Sam	ple Infor	mation:									
4		Total To	ests ass	igned	2	l							

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

Case no: 2021-0470 Site No: FS0090 Method of killing: Percussive

Case no:	2021-0470		Site N	lo:	FS0090 Method of killing: Percuss			sive			
Date of visit:	01/11/2021	1	Inspe	ctor(s):				l s	heet Re	elevant:	Υ
										'	
Fish Number	ce: M for medium presence: W for v	меак рге I F1	F2	F3							
	er death (if > 45 minutes)		1 2	1 3							
External Signs	er death (ii > 45 minutes)										
Behaviour Seption	Moribund	S									
	Lethargic	S	М	М							
	Hanging vertical										
	Spiralling										
	Flashing										
	Loss of equilibrium										
Body	Dark										
	Distended abdomen										
	Anorexic			W							
	Scale Oedema										
Opercula	Shortened										
	Flared										
Haemorrhaging	Throat										
	Ventrum Page of fine										
	Base of fins										
Eyes	Elsewhere Exophthalmic										
Lycs	Enophthalmic (sunken)										
	Cataract										
	Haemorrhagic										
Gills	Pale										
	Zoned										
	Necrotic										
Lesions	Flank										
	Elsewhere										
Vent	Inflamed										
	Trailing faeces										
Lice Load	Estimate numbers										
Internal Signs											
Ascites	Clear		- NA	NA/							
Ondown	Bloody		М	W							
Oedema	In tissues										
Heart	Pale/anaemic Granulomas										
	Deformed										
Liver	Petechial haem	W	W	w							
21101	Gross haem										
	Tissue breakdown	W	W								
	Enlarged										
	Colour number(s)										
	Granulomas										
	Lesions										
Pyloric caeca	Petechial haem										
	Tubules mauve										
	Lack of fat		VAZ	IVA?							
Spleen	Enlarged		W	W							
C···	Granulomas										
Gut	No food present	M	М								
	Yellow pseudo-faeces External haem	IVI	141								
	Internal haem										
Body wall	Haemorrhaging										
Swim bladder	Haemorrhaging										
»iaaaoi	Fluid filled										
Kidney	Swollen										
	Grey	W	W								
	Granular										
	Liquefied										
General	Parasites present										
	Anaemia										

Case no: 2021-0470

Date of visit: 01/11/2021

Date of visit.	01/11/202						
S for strong preser	nce: M for medium presence: W fo	rм					
Fish Number	· ·						
	er death (if > 45 minutes)						
External Signs	or dodn't (ii) To minutes,						
Behaviour	Moribund						
Denavious	Lethargic						
	Hanging vertical						
	Spiralling						
	Flashing						
	Loss of equilibrium						
Body	Dark						
Войу	Distended abdomen						
	Anorexic						
	Scale Oedema						
Operaula							
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						
	raideima						

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Additional comments:		
F1&F2 appeared to be females in the ea	rly stages of producing eggs, F3 appeared	to be male filled with milt.
lesser extent near the dorsal fin. Once re	it appeared to have a brown coloured discontinuous from the water this was not apparer me tank to a lesser extent and these fish we	nt anymore. Similar discolouration

Frequency of movements on from equivalent zone or compartment including third country 0 9 18 26 0	FHI 059, Version 13		Issued by: FHI			Date	of issue	: 12/05/2020
Live fish movements Live fish movements on from optivalent MS 0 1-5 6-10 >10	Case Number:	2021-0470		Site No:	FS0090		Insp:	
Movements on (from out with GB) of susceptible species Prequency of movements on from equivalent XS Movements off Prequency of movements on from equivalent zone or compariment including third country Number of suppliers Movements off Number of suppliers Prequency of movements off Number of destinations Prequency of movements off Number of destinations Prequency of movements off Number of destinations Site contacts Parm is protected (secure water supply through disinfection or borehole) Susceptible to same diseases Farm is protected (secure water supply through disinfection or borehole) Farm is on-line or in a coastal zone with category I arms upstream or within 1 tidal excursion Farm is on-line or in a coastal zone with category I arms upstream or within 1 tidal excursion Farm is on-line or in a coastal zone with category I arms upstream or within 1 tidal excursion Management practices Water contacts with processing within the rules of the directive Processing sign of the directive Processing fish from MS of equivalent status Processing fish from Sof equivalent status Processing fish from Category V farm Processing fish from Category V farm Disposal of fish and fish by-processes with other farms Collection point for waste from other farms Siles own waste only processes. On more processes with other farms Siles own waste only processed. On more processes with other farms Siles own waste only processed. On more processes with other farms Siles sharing staff and equipment Vyes Number of siles and fish of the processes. Processing fish from Category V farm Disposal of fish and fish by-processes with other farms Siles own waste only processed. On more processes with other farms Siles own waste only processes. On more processes with other farms Siles own waste only processed. On more processes with other farms Siles own waste only processed. On more processes with other farms Siles own waste only processed. On more processes with other farms Siles own waste only process	Date of Visit	01/11/2021		No of m	ovements/s	supp./dest.		Score
Frequency of movements on from equivalent zone or compartment including third country	Live fish movements			0	1-5	6-10	>10	
Image: compartment including third country	Movements on (from out	Frequency of m	novements on from equivalent MS	0	5	10	14	0
Number of suppliers	· ·				0	40	00	0
Movements off	species							0
Number of destinations								0
Site contacts with other arms is protected (secure water supply through disinfection or borehole)	Movements off							10
Water contacts with other farms (holding species susceptible to same diseases) Farm is on-line of in a coastal zone with category I tarms upstream or within 1 tidal excursion 1 1 2 4 4		Number of desi					10	3
tarms (holding species ususceptible to same diseases) Farm is on-line or in a coastal zone with category I tarms upstream or within 1 tidal excursion 1 2 4 4 1 1		Farm is protect		, U	1-3 	0-10		
diseases)				0				
Farm is on-line or in a coastal zone with category III farms upstream or within 1 tidal excursion Farm is on-line or in a coastal zone with category V farms upstream or within 1 tidal excursion Farm is on-line or in a coastal zone with category V farms upstream or within 1 tidal excursion None Secure Unsecure Water contacts with processing plant discharging into adjacent waters O	susceptible to same				_			
farms upstream or within 1 tidal excursion 1 3 6 Farm is on-line or in a coastal zone with category V farms upstream or within 1 tidal excursion 1 4 8 8 Management practices Water contacts with processing plant discharging into adjacent waters processors On farm processing within the rules of the directive Processing fish from MS of equivalent status 2 Processing fish from MS of equivalent status 2 Processing fish from Zone or compartment of equivalent status Processing fish from Category Ill farm 8 Processing fish from Category V farm 10 Disposal of fish and fish by Processes with other farms 3 Collection point for waste from other farms 5 5 Use of unpasteurised feeds No feeding of unpasteurised feed 5 Feeding unpasteurised feed 5 Sites operating from single shorebase 0 1 2 Sites sharing staff and equipment between sites, use of hoo tothaths etc of No 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1	diseases)			1	2	4		1
Farm is on-line or in a coastal zone with category V 1				1	3	6		
Management practices Water contacts with processors Water contacts with processors Any processing plant discharging into adjacent waters processors On farm processing within the rules of the directive Processing own fish (re-cycling risk) Processing fish from MS of equivalent status Processing fish from MS of equivalent status Processing fish from Zone or compartment of equivalent status Processing fish from Category Ill farm Processing fish from Category V farm Disposal of fish and fish by-products Site's own waste only processed. Collection point for waste from other farms Use of unpasteurised feed No feeding of unpasteurised feed Feeding unpasteurised feed Sites operating from single shorebase Sites operating from single shorebase Sites sharing staff and equipment between sites, use of footbaths etc CoGP/Regulator Practices in accordance with regulator or industry code of practice Ves No No Total 18		-						
No notation		farms upstream	n or within 1 tidal excursion	1	4	8		
No no farm processing within the rules of the directive	Management practices			None	Secure	Unsecure		
On farm processing within the rules of the directive Processing own fish (re-cycling risk) 1 Processing fish from MS of equivalent status 2 Processing fish from Category III farm 8 Processing fish from Category V farm 10 Disposal of fish and fish byproducts Site's own waste only processed. 0 Common processes with other farms 3 Collection point for waste from other farms 5 Use of unpasteurised feeds No feeding of unpasteurised feed 0 Feeding unpasteurised feed 5 Biosecurity Number of sites 1 2 or 3 ≥ 4 Contacts with other sites Sites operating from single shorebase 0 1 2 2 Sites sharing staff and equipment 0 1 2 Disinfection of equipment between sites, use of footbaths etc 0 CoGP/Regulator	Water contacts with	Any processing	plant discharging into adjacent waters	;				
the rules of the directive	processors			0	1	2		0
Processing own fish (re-cycling risk)	-	No on farm pro	cessing					0
Processing fish from zone or compartment of equivalent status Processing fish from Category III farm Processing fish from Category V farm 10 Disposal of fish and fish by-products Site's own waste only processed. Common processes with other farms 3 Collection point for waste from other farms 5 Use of unpasteurised feeds No feeding of unpasteurised feed Feeding unpasteurised feed Sites operating from single shorebase Ontacts with other sites Sites operating from single shorebase Ontacts with other sites Ontacts with other sites Sites sharing staff and equipment Ontacts with other sites Ont	the rules of the directive	Processing own	n fish (re-cycling risk)	1				
Processing fish from zone or compartment of equivalent status Processing fish from Category III farm Processing fish from Category V farm 10 Disposal of fish and fish by-products Site's own waste only processed. Common processes with other farms 3 Collection point for waste from other farms 5 Use of unpasteurised feeds No feeding of unpasteurised feed Feeding unpasteurised feed Sites operating from single shorebase Ontacts with other sites Sites operating from single shorebase Ontacts with other sites Ontacts with other sites Sites sharing staff and equipment Ontacts with other sites Ont		Processing fish	from MS of equivalent status	2				
equivalent status			•		-			
Processing fish from Category V farm 10				4				
Disposal of fish and fish by-products Common processes with other farms 3 3		Processing fish	from Category III farm	8				
Common processes with other farms 3 3		Processing fish	from Category V farm	10				
Common processes with other farms 3 3 3 3 5	Disposal of fish and fish by-	Site's own was	te only processed.		1			0
Collection point for waste from other farms 5	products	Common proce	esses with other farms	3				3
Feeding unpasteurised feed 5		Collection point	t for waste from other farms					
Feeding unpasteurised feed 5	Lies of upparteurised feeds	No feeding of u	unnastaurised feed	<u> </u>	1			0
Sites operating from single shorebase 1 2 or 3 ≥ 4	Osc of dripastedrised reeds		•					0
Contacts with other sites Sites operating from single shorebase O Sites sharing staff and equipment Disinfection of equipment between sites, use of footbaths etc No Total Sites operating from single shorebase O 1 2 1 0 1 2 1 1 2 1 1 2 1 1 2 1 1	Riosocurity	r county unput			J	> 4		
Sites sharing staff and equipment Disinfection of equipment between sites, use of footbaths etc CoGP/Regulator Practices in accordance with regulator or industry code of practice Platform access to cages Yes No Total O 0 0 0 0 0 0 0 0 0 0 0 0		Sites operating		1	1			1
Disinfection of equipment between sites, use of footbaths etc CoGP/Regulator Practices in accordance with regulator or industry code of practice Platform access to cages Yes No O O O O Total O Total								0
between sites, use of footbaths etc	Disinfanting of a minute at			<u> </u>	<u>'</u>			
CoGP/Regulator				0				0
Practices in accordance Yes		No		1				
with regulator or industry code of practice No No Service No No No No Total No No No No No No No No No N	CoGP/Regulator							
No 3	Practices in accordance	Yes		0				0
Platform access to cages Yes 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		No		3				
No 2 Total 18	·	lv			1			
Total 18	Platform access to cages			0				0
		No		2				
						Total		18

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Case No: 2021-	0470	Site No:	FS0090	
2. Is the CoGP Farm Managem	er Sites Only) a lice problems in the previous 4 your problems.	synchronously on a single y		N N
	benzoate) as well as access to su			IN
 Is there a signed documente Management Area (or equivale 	d farm management agreement on nt)?	r statement relevant to the s	ite and CoGP Farm	Υ
	vailable for inspection? (Legal SSI the required standard specified i	·	Legal SSI, CoGP Annex 6)	Y Y
7. Are sea lice (<i>L. salmonis</i>) re records are inspected? (CoGP	cord levels below the suggested c Annex 6)	riteria for treatment in the C	oGP during the period that	N
	ea lice (<i>L. salmonis</i>) numbers per during the period that records are i		above (prior to w/b 10/6/19) or	N
•	d to the Fish Health Inspectorate? t a level which is considered to car		ems? (CoGP 4.3.81, 5.3.50)	N/A N
suggested criteria for treatment	s been administered or other action to rwhere <i>C. elongatus</i> is consider			Υ
13. Are treatments, where cond	taken (where applicable)? s or the actions taken had a signif ducted, carried out in cooperation I gy for the site, where fewer popula	petween participating farms'	?	N/A Y N/A N/A
sea lice?				
scenarios during the escalation				Y
16. Do the sea lice levels obse	rved on stocks reflect sea lice cou	nt data? If no please detail r	reasons.	Y
· ·	uipment damage due to predators igate against the predation experi	·	•	N Y
If other, detail below:				
tanks outside with covers 3. Have escape incidents or everself Yes proceed with questions 4	vents been experienced on or in th - 9. If No skip to question 10	e vicinity of the site since th	e last FHI inspection?	N
4. Have these been reported to 5. Have these been reported to	Scottish Ministers? local DSFB forthwith (where they	exist)? (CoGP – 4.4.37, 5.4	4.17)	
•	the SSPO and local fisheries trus	· · ·	•	
7. Were methods (if any) used	to recover escapees? If yes give o	letail		
8. If gill nets were deployed wa Ministers? (Legal, CoGP – 4.4.	s this action agreed with local wild 38, 5.4.18)	fish interests and was perm	nission given by Scottish	
What action was taken to pre be considered under satisfa	event and minimise the risk of furth actory measures of the Act)	ner escapes? (Not covered i	in code but could	
	sfactory with regards to containment	ent? If no, please detail reas	on(s)	Υ

FHI 059, Version 13	Issued by: FHI	Date of issue: 12/05/2020
Case No: 2021-0470	Site No: FS0090	
Date of Visit: 01/11/2021	Inspector:	
Point of Compliance		
1. Is the farm under inspection located v	within a farm management area?	Υ
If N, no further questions require comple	etion.	
2. Has a current farm management agres. Is the current FMAg/S available for in 4. Does the FMAg/S identify the relevant 5. Does the FMAg/S identify the fish far 6. Does the FMAg/S identify the date of 7. Does the FMAg/S identify the date of 6. Does the FMAg/S identify the date of 6. Does the FMAg/S identify the minimulation of the FMAg/S identify the minimulation of the FMAg/S identify the vaccination. Does the FMAg/S identify the maximal form of the FMAg/S identify the maximal form of the FMAg/S identify the maximal form of the FMAg/S identify the arrangements.	rm site(s) to which it applies? If commencement of the agreement or state of review? If r	atement? area or farm? area or farm? farm in the area or the
fish farm in the area or the individual fa Arrangements for The Management of the Individual factors are an arrangement of the Individual factors are arrangement of the Individual factors are arrangement.		numbers and treatments?
14. Does the FMAg/S identify the availa of statement? 15. Does the FMAg/S identify any requi	ability and the use of medicines on farms irements for the sensitivity testing of avail	covered by the agreement Y
used on farms in the area or individual f	mstances under which biological controls farms?	
Live Fish Movements 18. Does the FMAg/S identify the circunarea or farm?	gements for synchronous treatments on metances when live fish may be introduced gements for the movement of live fish on	ed or removed from the
or individual farms?		

FHI 059, Version 13	Issued by: FHI	Date of issue: 12/05/2020
Harvesting 20. Does the FMAg/S identify acceptable h	arvest practices on farms in the area or indi	vidual farms?
date when a farm or area may be restocked 22. Does the FMAg/S identify whether one agreement or statement?	which the area or individual farm will be fallod? or more year classes may be stocked onto a odstock or potential broodstock are to be kep	sites covered by the
Point of Compliance for Farm Managem 24. Does the farm management agreemen parties to the agreement?	ent Agreements Only t include arrangements for persons to becor	me, or cease to be, N/A
Management and operation 25. Is the fish farm being managed and ope 26. What is the version no/date of issue of	erated in accordance with the agreement or the FMAg/S? 14-Dec-19	statement? Y

Site No: FS0090

Case No: 2021-0470

Nature of non-compliance:

Action taken (FHI):

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

Case No: 2021-0470 Site No: FS0090 Date of visit: 01/11/2021

Start date:	End date: (if applicable)	Size of fish:	Average weight of affected population:	Species:	Yearclass (SW SAL only):	Timescale	Mortality rate recorded(%):	Explained/ unexplained:	If explained, select reason(s):
28/06/20	04/07/2020	≥750g	3kg	SAL		Weekly	1.86	Explained	Poor doer/ Runts
05/07/20	11/07/2020	≥750g	3.1kg	SAL		Weekly	2.16	Explained	Poor doer/ Runts
19/07/20	25/07/2020	≥750g	3.1 kg	SAL		Weekly	1.25	Explained	Poor doer/ Runts
26/07/20	01/08/2020	≥750g	3.2 kg	SAL		Weekly	1.08	Explained	Poor doer/ Runts
06/12/20	12/12/2020	≥750g	3.5kg	SAL		Weekly	1.54	Explained	Grilse
24/10/21	30/10/2021	≥750g	3.8 kg	SAL		Weekly	2.90	Unexplained	
31/10/21	06/11/2021	≥750g	3.9kg	SAL		Weekly	4.59	Unexplained	
07/11/21	13/11/2021	≥750g	4.1kg	SAL		Weekly	6.94	Unexplained	
21/11/21	27/11/2021	≥750g	4.2kg	SAL		Weekly	1.09	Unexplained	
28/11/21	04/12/2021	≥750g	4.3kg	SAL		Weekly	1.76	Explained	Grilse
05/12/21	11/12/2021	≥750g	4.3 kg	SAL		Weekly	1.26	Explained	Grilse
							+		

If unexplained, select observations:		Total mortality during event (if available):	Additional information (e.g. action taken by company):	Action taken by FHI (include case no where applicable):	Yearclass Year
	Click to select observations (ensure in			Historic mortality picked up during site visit.	
	correct cell)			Historic mortality picked up during site visit.	
				Historic mortality picked up during site visit.	
		149		Historic mortality picked up during site visit.	
		164		Historic mortality picked up during site visit.	
Gill insult		447	Histology samples taken	Mortality picked up during site visit.	
Gill insult		682	Bacteriology and virology samples taken	Mortality picked up during site visit.	
Gill insult		979	Gill swabs and blood samples taken	Mortality picked up during site visit.	
Gill insult		139		Mortality picked up during site visit.	
Gill insult		221	Biologist notified	Mortality picked up during site visit.	
Gill insult		155	MS inspector verbally notified on 01.11.2021 during site visit	Mortality picked up during site visit.	

Case No:	2021-0470			Date of vis	it: 01/11/2	021		
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Site No:	FS0090]		Inspecto	or:			
Results Summary	Freq.	ı		C	ate of Noti	ification		
•	· ·	Database	Insp	Phone	Insp	Writing	Insp	2 nd Ins
MG-ISA	1/1	08/11/2021	_	08/11/202	_	03/12/2021		2 1110
MG-IPN	1/1	08/11/2021		09/11/202		03/12/2021		
MG-VHS	0/1	08/11/2021		09/11/202		03/12/2021		
MG-IHN	0/1	08/11/2021		09/11/202		03/12/2021		
MG-SAV	0/1	08/11/2021		09/11/202		03/12/2021		
CGDH	3/3	29/10/2021				03/12/2021		
GPAT	3/3	29/10/2021				03/12/2021		
EPIT	3/3	29/10/2021				03/12/2021		
LPAT	2/3	29/10/2021				03/12/2021		
AMGD	3/3	29/10/2021				03/12/2021		
ISA - IHC	0/1	29/10/2021		10/11/202	21	03/12/2021		
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Report Summary				1				
Case Type	Date	Insp	2 nd Insp					
ECI, CNI, SLI. VMD	18/01/2022	•	2 1113P					
DIA	03/12/2021							
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FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

Business No FB0061 Date of Visit 01/11/2021

SITE No FS0090 SITE NAME Ormsary Broodstock Unit

Case No 20210470 Inspector

Section 1: Summary

During a routine inspection lethargic fish were observed on site and removed for diagnostic sampling. Increased unexplained mortality in one year class (2021) was being investigated at the time of the visit.

Histopathological examination revealed marked vascular disturbance potentially associated with water bourn insult. Mild, multifactorial, non-specific proliferative branchitis was also noted. Pathology was also consistent presence of epitheliocystis (likely *Candidatus* Branchiomonas cysticola) and amoebic gill disease (AGD). Mild multifocal hepatic necrosis (F1 & F3) and haemorrhage were observed in F3.

Samples were screened for infectious salmon anaemia virus (ISAV) by QPCR as part of the surveillance program for the control of listed diseases. The samples tested positive for infectious salmon anaemia virus (ISAV) by QPCR and the sequence data confirmed the presence of ISAV HPR0, the non-pathogenic form of the virus. Additionally, an ISAV immunochemistry (IHC) assay which targets the pathogenic form of the virus (ISA-deleted nucleoprotein) was performed and was found to be negative. In relation to the ISAV HPR0 result obtained, along with the observations made on site, no further statutory action is required to be taken in this case, ISAV HPR0 not being a disease listed in The Aquatic Animal Health (Scotland) Regulations 2009.

Samples also tested positive for Infectious pancreatic necrosis virus (IPNV) by QPCR.

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

During a routine inspection lethargic fish were observed on site and removed for diagnostic sampling. The site was stocked with 3 year classes of Atlantic salmon broodstock at the time of the visit. Increased mortality had been observed in the population that went to sea in 2021, the previous week. Mortality of 195 fish or 1.93% was observed on site in the week beginning 22 October 2021. The following week, week beginning 29 October 2021, 513 fish or 5.93% were reported to the Fish Health Inspectorate.

F1 was displaying moribund and lethargic behaviour prior to being removed from the tank, while F2 and F3 were lethargic. Externally, F1 showed pale discolouration with brown patches visible while R09

the fish was in the water at the anterior and posterior dorsal surface. F3, appeared to be slightly anorexic. Internally, all three fish showed signs of maturation, with some petechial haemorrhaging evident on the liver and some liver breakdown observed in F1 & F2. Bloody ascites was observed in the body cavity of F2 and F3, and the spleen appeared somewhat enlarged in both individuals. Yellow pseudo-faeces were observed in F1 & F2 and the kidney appeared to have a slightly grey sheen in both individuals.

Samples

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

Fish number	Pool number	Facility number	Species	Stage	Origin
F1-F3	P1	F1	Atlantic salmon (<i>Salmo salar</i>)	1.7kg, 2021	Langass Hatchery

Results

Bacteriology: Kidney and gill material from F1-F3 was inoculated onto appropriate media for the isolation of bacteria.

No significant bacteria were isolated.

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)

Pool Number	Endogenous control Cp value		Cp Values	3	Reported Result (PCR)
P1	19.69	34.72	35.59	36.26	POSITIVE

Infectious salmon anaemia virus (ISAV)

Pool Number	Endogenous control Cp value		Cp Values	3	Reported Result (PCR)
P1	19.69	38.3	38.55	39.47	POSITIVE

Sequencing confirmed 100% identity of ISA HPR0.

An ISAV immunochemistry (IHC) assay which targets the pathogenic form of the virus (ISA-deleted nucleoprotein) was performed and was found to be negative.

The samples tested negative for infectious haematopoietic necrosis virus (IHNV), salmonid alphavirus (SAV) 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 three fish. The tissue samples were fixed in 10% neutral buffered formalin.

Histopathological examination by light microscopy of 3 Atlantic salmon revealed the following:

<u>Gill:</u> Mild multifocal hyperplasia and lamellar fusion, mainly observed at the base of the gill filament (F1). Foci of cellular necrosis also observed on the hyperplasic plaques (F1). Some adhesions of R09

the adjacent lamellae also noted in all fish. Rare amoeboid cells resembling *Neoparamoeba perurans* observed in F1; F1 and F3 exhibited basophilic epithelial inclusions (likely epitheliocystis). All fish displayed displacement of the chloride cells and prominent goblet cells. Lamellae exhibited marked, diffuse, vascular disturbance, several aneurismal dilations and thrombi observed in all fish. Skin & Muscle: Within normal range.

Heart: Two thrombi observed in the atrium chamber (F2).

Gut and pyloric caeca: Within normal range.

Pancreas: Within normal range.

<u>Liver:</u> Multiple small foci of hepatic cell necrosis (F1 & F3). F3 also displayed a focally extensive haemorrhage.

<u>Kidney:</u> Foci of absence of haematopoietic tissue (F2) and increased numbers of melanomacrophages aggregates (F3).

Spleen: Within normal range.

Signed:

Date: 03/12/2021

Fish Health Inspector

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





FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

Business No FB0061 Date of Visit 01/11/2021

SITE No FS0090 SITE NAME Ormsary Broodstock Unit

Case No 20210470 Inspector

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

The above site was inspected, in accordance with the Aquatic Animal Health (Scotland) Regulations 2009.

All epidemiological units were inspected.

Samples were taken for diagnostic purposes. A separate report has been 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 in spected 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.

Records in relation to aquaculture animals transported by the business were inspected and found 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 not been reported to the Fish Health Inspectorate. I would like to remind you of the industry agreement in relation to mortality reporting as detailed in A Code of Good Practice for Scottish Finfish Aquaculture.

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.



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







