FHI 059, Version 13	lss	sued by: FHI	Date of issue: 12/05/	2020
Case No: 2023-0067			Date of visit: 28/02/2023	
Time spent on site: 4	hours	Main	Inspector:	
Site No: FS1269 Business No: FB0119	Site Name: Business Name:	Lochailort Recirculation	on Hatchery	Ξ
Case Types: 1 ECI	2 CNI 3 VMD	4 5	6	
Water Temp (°C): 9	Thermometer No:	Site	FHI 045 completed	N/A
Observations:	Region: HI	Water type: F	CoGP MA:	
Dead/weak/abnormally behaving Clinical signs of disease observe Gross pathology observed? Diagnostic samples taken?	•	N If yes, see addition	onal information/clinical score sheet. onal information/clinical score sheet. onal information/clinical score sheet.	
UNI/REG only - if unable to carry	out intended visit detail re	eason below:		

#### FHI 059, Version 13 Additional Case Information:

Site has been having issues with ova specifically in the Q3 populations received in Nov 2021 and Dec 2022 from Aquagen. In addition, increased mortality was observed in the recent Q1 and Q4 Kindrum Hatchery ova inputs (Ireland). In the highest observed mortality events (15.92% with loss of 297980) salinity baths (2.5pp) were used to separate unviable ova from healthy population, allowing for more efficient sweep during picking.

Water input originates from River Ailort. Each unit in the facility has its own water filtration and disinfection system. The water filtration and disinfection system is composed of sand filters and an ozonation component (treats water at 950milivolts for ~1hr)., Water exchange on the whole site is very minimal and therefore is classed as a recirculation system, with the smolt unit exchanging ~2% per day. In the hatchery one full water exchange occurs per day.

Treatment records show that regular formalin and Cress administered to keep on to of any saprolegniosis observed. Buffodine is used to disinfect eggs upon arrival at the hatchery.

Stock details: hatchery a: 1876370, 544 degree days, 0.1g/alevins, Q4 2023 hatchery b: 1484417, 0.1g/alevins, Q4 2023 hatchery c, 1013841, 0.1g/alevins, Q4 2023 hatchery d: 650000, unhatched. Q1 2024, Ova 440, degree days. Arrived to site on 23/02/2023 from Ireland (Kindrum Hatchery) fry: 1330585, 1.03g. Q3 2023 Parr unit empty. Smolt unit: 173119 (minus 13000 due to export on day of inspection), 78g. 3 facilities. Q1 2023

Fish sampled for VMD were observed to be healthy.

HI 059, Version			Issued by: FH		
Case No:	2023-0067		Site No:	FS1	269
Date of Visit:		28/02/20	)23		Inspector(s):
Registration/Au	thorisation De	etails			
1. Business/site	details summai	ry checked by site re	epresentative?		
2. Changes mad	e to details?				
Site Details (inc	lude cleaner f	ish for all sections	.)		
- · · · · · · · · · · · · · · · · · · ·		1 hatchery + 5			1 hatchery + 37
Total No facilities	3	tanks	Facilities stock	ed	tanks
Species	SAL	SAL	SAL	SAL	
Age group	Q1 2023	Q3 2023	Q4 2023	Q1 2024	
No Fish	173,119	1,330,585	4,374,628	650,000	
Mean Fish Wt	78g	1.03g	0.1g	Ova	
Next Fallow Date		site never fallo	W	Next Input Da	
Recent (last 4 wh	(s) disease pro	blems?			N Any escapes (sinc
f yes, detail:					
<ol> <li>Are records co</li> <li>Are movemen</li> <li>Are records co</li> <li>Are health cer</li> </ol>	omplete and co t records availa omplete and co tificates for intro	able for dead fish an			
5. Are records co 6. Are health cer <b>Fransport Reco</b> 1. Are any mover f yes, is there a <b>Mortality Recor</b> 1. Mortality recor 2. How are morta	omplete and co t records availa omplete and co tificates for intro rds ments carried o system in place ds ds available for	able for dead fish an rrectly entered? oductions (outwith C out by (or on behalf) e for maintenance o r inspection?	GB) available? of the business (n		Incinerated - on si
<ol> <li>Are records co</li> <li>Are movemen</li> <li>Are records co</li> <li>Are health cer</li> <li>Are health cer</li> <li>Are any movel</li> <li>Are any movel</li> <li>Yes, is there a</li> <li>Mortality Record</li> <li>Mortality record</li> <li>How are mortal</li> <li>f other detail:</li> </ol>	omplete and co t records availa omplete and co tificates for intro rds ments carried o system in place ds ds available for alities disposed	able for dead fish an rrectly entered? oductions (outwith C out by (or on behalf) e for maintenance o r inspection?	GB) available? of the business (n f transportation rec		
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<ul> <li>3. Are records co</li> <li>4. Are movemen</li> <li>5. Are records co</li> <li>6. Are health cer</li> <li>7. Transport Reco</li> <li>7. Are any movement</li> <li>7. Are any movement</li> <li>7. How are mortal</li> <li>7. Have increase</li> </ul>	bindlete and co trecords availability of the second system in place ds available for alities disposed ds complete ar ds comple	able for dead fish an rrectly entered? oductions (outwith C but by (or on behalf) e for maintenance of r inspection? of? nd correctly entered l/atypical mortalities er facility/no stock p 23 Wk1, 9.20%, 137 during period checker s/failed hatch morta Wk6, 1.30%, 41861 9. Q1 2022 (output N July 2022): 2021 W	<ul> <li>SB) available?</li> <li>of the business (n f transportation red 201 2023 (smo 431. Q3 2023 0.30%, 4086. 0 (ova arrived 23 201 2023 (smo 431. Q3 2023)</li> <li>er facility/reason: 201 201 2023 (smo 431. Q3 2023)</li> <li>er facility/reason: 201 201 201 201 201 201 201 201 201 201</li></ul>	ords? ts Feb 2023 outp (parr July 2023 o 24 2023: Wk8, 2 3/02/23): Wk8, 09 5); 2022 Wk8, 09 5); 2022 Wk8, 09 44; 2022 Wk8, 1 44; 2022 Wk8, 6 7412, 1.00%,336 5; Wk48, 1.48%, HI?	Incinerated - on si but) : Wk8, 0.03%, 295; utput): Wk8, 0.72%, 960 .61, 33466; Wk7, 0.71% %, 0. 5.92%, 297980 (unviab 23): 2022 Wk50, 3.12% 5.35%, 190857 (failed h 72; Wk13, 1.26%, 42158 27109; Wk51, 2.38%, 4

#### **Treatments and Medicines Records**

1. Recent treatments (see comment	)?	
	Buffodine, Cress,	
If yes, detail:	Formalin	
If other, detail:		
2. Medicines records available for in	spection?	
3. Are records complete and correct	ly entered?	
4. Are fish in a withdrawal period?		
5. If yes, what treatment(s)?		T.M.S
If other, detail:		
6. Are medicines stored appropriatel	ly?	

### Biosecurity Records

1. Biosecurity records available for inspection?

2. Has the manner and frequency of mortality removal, recording and safe disposal been considered?

3. Has the manner and period in which the APB will notify Scottish Ministers or veterinary professional of any at the site been included?

4. Has the action that will be taken in the event that the presence or suspicion of the presence of a listed disea *how* and *when* that will be notified to Scottish Ministers?

5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or higher required)?

6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minimise 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 aquacu8. Have the biosecurity procedures been adequately implemented on site?

If no, detail:

#### **Results of Surveillance**

1. Has any animal health surveillance been carried out by, or on behalf of, the business?

2. If yes, are results available for inspection?

3. Any significant results?

If yes, detail (if not detailed under recent disease problems).

Records checked between:

10/05/2022-28/02/2023

	Y N	
No focilition incon	atad	1 hatchery + 55 tanks
No facilities inspe	cieu	lanks
end of march 202 e last visit)?	3	N
	10/05/2022	Y
	10/00/2022	Y
		N/A N/A
		Y
		N
		Y
te		
		Y
Wk7, 0.02%, 536 )2; Wk7, 0.19%,25 6,11968; Wk6, 0%		2737; Wk5,
		Y
le ova).		
%, 49126 (failed ha	atches) 04 2022 (	Y output Sept
atch/unviable ova) 3;Wk14, 1.68%,55 42146; 2022 Wk4,	; Wk9, 1.70%, 480 469; Wk16, 4.60%	002; Wk11, ,149132. Q3
		N/A
		Y

	Y
	Y Y Y
	Y
<i>increased (unexplained)</i> mortality ase is detected been included and health status, certification if	Y Y Y Y
e transmission of disease been	Y
ulture animals held on site?	Y
	Y Y N

F۲	II 059, Version 13							lss	ued by: I	-HI			
	Case no:	2023-00	067	Site No:		FS1269			Date of		28/0	02/2023	28/(
	Priority samples:	VI		BA		PA		MG	Samplin	g: HI			
	Time sampling starts/ends:	10:3	80:00	12:0	0:00		Inspecto	or:			VMD No	р. <b>Г</b>	25
	Environmental conditions:	1	Indoors	2		3		4		5			
	Summary samples	HIST		BA		MG		VI		PA		Total Sa	mples
A	dd Fish/Pools - click												
_	Pool/Fish No												
	Fish nos	1-20	21-40	41-61									
	Pool Group Species	SAL	SAL	SAL									
	Average weight	78g	78g	78g									
	Sex	N/A	N/A	N/A									
	Water Type	FW	FW	FW									
tock Details	Stock Origin	Kındrum Hatchery (Mowi Ireland; FHA000022IE)	Kindrum Hatchery (Mowi Ireland; FHA000022IE)	Kındrum Hatchery (Mowi Ireland; FHA000022IE)									

Stock Origin Facility No

40

42

43

)2/2023	Addition	nal Sam	ple Infor	mation:										
		_	_	_	_	_	_	_	_	_	_	_	_	
0		Total T	anta ana	ianod	0	1								
0		Total Te	ests ass	ignea	0	l								
														•

FHI 059, Version 13

FHI 059, Version 13		Issued by: FHI			Duio		12/05/2020
Case Number:	2023-0067		Site No:	FS1269		Insp:	
Date of Visit	28/02/2023		No of mo	ovements/s	supp./dest.		Score
Live fish movements			0	1-5	6-10	>10	
Movements on (from out		novements on from equivalent MS	0	5	10	14	0
with GB) of susceptible species		novements on from equivalent zone or including third country	0	9	18	26	9
	Number of sup		0	5	10	14	5
Movements off	Frequency of n	novements off	0	3	6	10	10
	Number of des		0	3	6	10	6
Exposure via water		Site contacts	0	1-5	6-10		
Water contacts with other farms (holding species	Farm is protect disinfection or I	ed (secure water supply through porehole)	0				0
susceptible to same diseases)	Farm is on-line	or in a coastal zone with category I or within 1 tidal excursion	1	2	4		
	farms upstrean	or in a coastal zone with category III or within 1 tidal excursion	1	3	6		
		or in a coastal zone with category V or within 1 tidal excursion	1	4	8		
Management practices			None	Secure	Unsecure		
Water contacts with processors	Any processing	plant discharging into adjacent waters	0	1	2		0
On farm processing within the rules of the directive	No on farm pro	cessing	0				0
the fulles of the directive	Processing ow	n fish (re-cycling risk)	1				
	Processing fish	from MS of equivalent status	2				
	Processing fish equivalent state	from zone or compartment of Is	4				
	U U	from Category III farm	8				
	Processing fish	from Category V farm	10				
		te only processed.	0				0
products	Common proce	esses with other farms	3				
	Collection poin	t for waste from other farms	5				
Use of unpasteurised feeds	No feeding of u	npasteurised feed	0				0
	Feeding unpas	teurised feed	5				
Biosecurity		Number of sites	1	2 or 3	≥ 4		
Contacts with other sites	Sites operating	from single shorebase	0	1	2		0
	Sites sharing s	taff and equipment	0	1	2		0
Disinfection of equipment	Yes		0	[			0
between sites, use of footbaths etc	No		1				
CoGP/Regulator							
Practices in accordance	Yes		0				0
with regulator or industry code of practice	No		3				
Platform access to cages	Yes		0				0
	No		2				
					<b>Total</b> Rank		30 HIGH

FHI 059, Version 13	Issued by: FHI	Date of issue: 12/05/2020
Case No: 2023-0067	Site No:	FS1269
Sea Lice Inspection (Seawater Sites Only)		
<ol> <li>Has the site experienced sea lice problems</li> <li>Is the CoGP Farm Management Area (or end)</li> </ol>		vear class basis?
3. Does the site have access to a range of lice azamethiphos and emamectin benzoate) as can these be deployed in a reasonable period	enced in-feed and bath sea lice medications (in well as access to suitable biological and/or me	ncluding deltamethrin,
4. Is there a signed documented farm manage Management Area (or equivalent)?	ement agreement or statement relevant to the	site and CoGP Farm
5. Are sea lice count records available for insp	pection? (Legal SSI, CoGP Annex 6)	
6. Do records adequately reflect the required	standard specified in the SSI and the CoGP? (	(Legal SSI, CoGP Annex 6)
7. Are sea lice ( <i>L. salmonis</i> ) record levels bel records are inspected? (CoGP Annex 6)	ow the suggested criteria for treatment in the 0	CoGP during the period that
8. Have average adult female sea lice ( <i>L. salr</i> 2 or above (from w/b 10/6/19) during the period		above (prior to w/b 10/6/19) or
If yes, have these been reported to the Fish H 9. Is <i>C. elongatus</i> infestation at a level which		blems? (CoGP 4.3.81, 5.3.50)
10. Have therapeutic treatments been administry suggested criteria for treatment or where <i>C. e</i>		
<ul><li>11. Has any other action been taken (where a</li><li>12. Have therapeutic treatments or the action</li></ul>	s taken had a significant impact upon the lice I	
	out in cooperation between participating farms where fewer populations or part populations a	
15. Is there a site specific written lice manage scenarios during the escalation of a sea lice in		actions to deal with recognised
16. Do the sea lice levels observed on stocks	reflect sea lice count data? If no please detail	reasons.
Containment Inspection 1. Has the site experienced equipment damage	and up to producers in the current or provinus r	production evelop?
2. Are measures in place to mitigate against t		
Site indoors,		
If other, detail below:		
3. Have escape incidents or events been exp	-	he last FHI inspection? N
If Yes proceed with questions $4 - 9$ . If No skip	-	
4. Have these been reported to Scottish Minis		
5. Have these been reported to local DSFB fo		
6. Have these been reported to the SSPO and	a local fisheries trusts forthwith (where they ex	st)? (CoGP – 4.4.37, 5.4.17)
7. Were methods (if any) used to recover esca	apees? If yes give detail	
8. If gill nets were deployed was this action ag Ministers? (Legal, CoGP – 4.4.38, 5.4.18)	reed with local wild fish interests and was per	mission given by Scottish
9. What action was taken to prevent and mini	mise the risk of further escapes? (Not covered	in code but could
be considered under satisfactory measur		
-	egards to containment? If no, please detail rea	son(s) Y

FHI 059, Version 13

Case No:	2023-0067	]		Date of visit:	28/02/2023	3		
Site No:	FS1269	]		Inspector:		I		
Results Summary	Freq.				te of Notifica			
		Database	Insp	Phone	Insp	Writing	Insp	2 <sup>nd</sup> Insp
	1							
	1							

Report Summary			
Case Type	Date	Insp	2 <sup>nd</sup> Insp
ECI, CNI, VMD	07/03/2023		





## FISH HEALTH INSPECTORATE VISIT REPORT

#### SUMMARY FOR INFORMATION OF SITE OPERATOR

 BUSINESS NO
 FB0119

 SITE NO
 FS1269

 CASE NO
 20230067

DATE OF VISIT28/02/2023SITE NAMELochailort Recirculation HatcheryINSPECTOR

#### 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. On this occasion no samples were taken for disease analysis. The Inspector did not observe any clinical signs associated with the listed diseases as described in the Aquatic Animal Health (Scotland) Regulations 2009.

#### Records

The surveillance frequency category of the site was assessed as high. An inspection under the Aquatic Animal Health (Scotland) Regulations 2009 will be conducted annually. 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 with respect to section 5 regarding containment and escapes.

On this occasion the site was found to be satisfactory.

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



Signed:

**R04** 

Date: 07/03/2023

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>