FHI 059, Version 13		Issued by: FHI	Date of issue: 12/05/2020
Case No: 2021-0391			Date of visit: 06/10/2021
Time spent on site:	8 hours	Main Inspecto	or:
Site No: FS1101 Business No: FB0456	Site Name: Business Name:	Etive 3 (Port na Mine) Dawnfresh Farming Ltd	
Case Types: 1 SLA	2 3	4 5	6
Water Temp (°C):	Thermometer No:		FHI 045 completed N/A
Observations:	Region: ST	Water type: S	CoGP MA M-36
Dead/weak/abnormally behaving Clinical signs of disease observed Gross pathology observed? Diagnostic samples taken?	•	N If yes, see additional infor	mation/clinical score sheet. mation/clinical score sheet. mation/clinical score sheet.
UNI/REG only - if unable to carr	y out intended visit deta	nil reason below:	

Additional Case Information:

All of the 2019 year class fish are planned to be harvested out week beginning 18th of October.

Well boat has been hired in to harvest out the fish on site, (2019) stock, another treatment boat has been in the loch doing bath treatments. 780 tonnes have been harvested since the 13th of September - Salmosan treatments for the 2021 fish on site. 2019 fish will all be harvested.

Decision was made middle of August to harvest 2021 fish out and effort was made to acquire a well boat for that purpose.

0.3 of total life stages is trigger level for treatment - Documented. Coincides with roughly 0.1 females.

treatment boat came in on week 27 - Hydrolicer - Good results - mortality was normal

Lice numbers rose sharply after the Hydrolicer treatments, consistent with resettlement - different Hydrolicer used again - 3rd of august.

It was reported anecdotally that the first Hydrolicer that arrived in week 27 had a malfunction that lead to removed lice being leaked back into the loch, this could have contributed to the rapid increase in Sea lice counts recorded in July.

Rainfall and water temperature have both been at an unusually low and high extremes respectively. Company in the opinion that this has massively contributed to the unusual high levels of lice observed on fish.

Remote paperwork completed by , onsite inspection and physical record check carried out by

Pens with different size fish. The smaller fish, that had not been stocked long on the site had no damage evident. Pens with larger fish tended to have some grazing damage.

Quite a number of pens with a small amount of fish remaining following intensive harvesting from the site after the mortality event a few weeks prior. These pens will be manually emptied (i.e. harvested) in the coming week, rather than by wellboat.

As the pumps on the wellboat were struggling to empty the pens completely. So a number of pens will be emptied across the site in the coming week.

Some records received and checked 30/11/22, 13/12/22 and meeting to discuss further documents and plans 13/01/23. Case to be closed following discussion and review of provided materials. (24/01/23)

FHI 059, Version 13			Issu	ed by: FHI			Date of issu	e: 12/05/2020	
Case No:	2021-0391		Site No:	FS1101					
Date of Visit:		06/10/202	1		Inspector(s):			ı	
Registration/Author								_	
1. Business/site deta	ails summary	checked by	site representa	ative?			Υ		
2. Changes made to	details?						N]	
Site Details (include cleaner fish for all sections)									
Total No facilities		10	Facilities sto	cked	8	No facilitie	s inspected	8	
Species	RTR	RTR							
Age group	2019	2021							
No Fish	78,000	251,000							
Mean Fish Wt	3.5	500g							
Next Fallow Date (S	ite)	June 22	•	Next Input Da	ate (Site)	July 22	•	•	
Recent (last 4 wks)					Any escapes		visit)?	N	
If yes, detail:					,	(,		
Movement Records									
Movement record		r inspection?						Y	
2. Date of last inspe		i inspection:					23/11/2020		
3. Are records comp		actly entered	2				23/11/2020	V	
Are records comp Are movement re		•		,					
5. Are records comp		•		-61-0				N/A	
6. Are health certific	ates for introd	iuctions (out)	with GB) availa	able?				IN/A	
Transport Records									
1. Are any movemen	nts carried out	t by (or on be	ehalf) of the bu	ısiness (not us	ing a STB)?				
If yes, is there a sys	tem in place f	or maintenar	nce of transpor	rtation records	?				
Mortality Records									
1. Mortality records	available for in	nspection?						Y	
2. How are mortalitie	es disposed o	f?			Whole fish -	Dundas Ch	emicals		
If other detail:									
3. Mortality records	complete and	correctly ent	ered?					Y	
4. Recent mortality (last 4 wks): wk39(0.70%-2585),wk38(0.41%-970),wk37(0.24%-565),wk36(0.06%-148)									
5. Evidence of recent increased/atypical mortalities?									
If yes, facility nos/no mortality per facility/no stock per facility/reason:									
wk31 2021- 1.32% -		•							
6. Any other peaks in mortality during period checked?								N	
If yes, detail:	The same of the	9 51,100 01							
7. Have increased (unexplained) i	mortalities be	en reported to	vet or FHI?				N/A	
If yes, detail action:	,								
8. Have 'mortality ev	ents' been re	ported to FH	? If no. enter	details on mor	tality events sh	neet.		Y	
			,		,				

FHI 059, Version 13	Issued by: FHI	Date of issue: 12/05/2020
Treatments and Medicines Records		

Treatments and Medicines Records							
1. Recent treatments (see comment)?		Y					
T.M.S.,							
If yes, detail: Salmosan							
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)?	Salmosan, TMS						
If other, detail:							
6. Are medicines stored appropriately?		Y					
Biosecurity Records							
Biosecurity records available for inspection?							
Has the manner and frequency of mortality removal, record	ding and safe disposal been considered?						
Has the manner and period in which the APB will notify Sc							
increased (unexplained) mortality at the site been included?	• •						
4. Has the action that will be taken in the event that the prese							
is detected been included and how and when that will be not							
5. Has the health status of aquaculture animals being stocke							
health status, certification if required)?	a on the raint one moon control (or quair or ringine)						
6. Have the husbandry and biosecurity measures implemented	•						
transmission of disease been covered (movement of staff, vi							
7. Is documentation available regarding the measures in place	ce to maintain the physical containment of						
aquaculture animals held on site?							
8. Have the biosecurity procedures been adequately implement	ented 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:	23/11/2020-06/10/2021						

Case No: 2021-0391 Site No: FS1101

Date of visit: 06/10/2021 Inspector(s):

Point for consideration Risk level Satisfactory? Requirement Comments and advice given or action taken if necessary

ENHANCED SEA LICE INSPECTION CHECKLIST

a. Inspection of sea lice records				
1.1 Are sea lice count records available for inspection?	Medium	Υ	CoGP 1.2.1, 1.2.2,	
1.2 Do records adequately reflect the required standard specified in the SSI ¹ and the CoGP ² ?	Low & Medium	Υ	Annex 6 SSI 1,2,	
(Counts should be weekly, record the person making the count, date				
of the count, number of fish sampled (should be 25), pen or facility number recorded, water temperature ³ , number of parasites observed				
and correct stages recorded ⁴				
1.3 Where weekly counts are not conducted is the reason for not conducting the count stated?	Low	Υ	SSI 1,2(g)	
1.4 Is that reason considered acceptable by the Inspector? Give detail.	Low	N/A		
1.5 Has the site experienced sea lice problems in the previous 4 years?		Υ	Detail if necessary:	Unusual elavated sea lice levels seen this year. Company reports issues with treatment boats, and abnormal enviromental conditions contributing to the issue. See additional info.
b. Inspection of records relating to treatment and control of sea li	ce			
2.1 Has appropriate action been taken where:				
a) L. salmonis record levels have been above the suggested criteria for treatment?	High	Υ	CoGP Annex 6	
b) C. elongatus infestation is at a level considered to cause significant welfare problems	High	Υ	CoGP 4.3.81, 5.3.50	
2.2 Is therapeutic treatment initiated ASAP where required?	Medium	Υ	CoGP 4.3.130, 5.3.84	
2.3 Where medicines have been administered there should be a			VMD ¹² 19	
record of :			SSI 1,3	
the name / identity of the product	High	Y	4	
the date of administration	High	Y	4	
the quantity (concentration and amount) administered	High	Y	4	
the method of administration of the product	High	Υ	_	
the identification of the fish / facilities treated	High	Υ		
name of the person administering the treatment	Low	Υ		
the withdrawal period	Medium	Υ		
2.4 If the medicine is administered by a veterinary surgeon:			VMD 18	
the name of the veterinary surgeon	High	Υ		
name of the product	High	Υ		

Point for consideration	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary
batch number	High	Υ		
the date of administration	High	Υ		
amount administered	High	Υ		
identification of fish treated	High	Υ		
withdrawal period	Medium	Υ		
2.5 Have therapeutic treatments or the actions taken had a significant impact upon the lice levels recorded?	High	Y		On average over 50% clearance is achieved from medicinal treatments,
Inspect records to confirm. Significant impact - ≥50% reduction in site average <i>L.salmonis</i> numbers (all stages)				
2.6 If other methods are employed on site to control sea lice and their impact is there a record of:	Low	Υ	SSI, 1,4	
the nature and date of the method employed; the identification number of all facilities subjected to the method; the name of the person employing the method				
2.7 Where medicines have been acquired is there a record of:			VMD 19	
proof of purchase of the medicine concerned	Medium	Υ	VMD 17	
name of the product	High	Υ		
batch number	High	Υ		
the date of purchase	Medium	Υ		
the quantity purchased	High	Υ		
the name and address of the supplier	Medium	Υ		
2.8 Where medicines have been disposed is there a record of:			VMD 19	
the date of disposal	Medium	N/A		All medicine is used on site, so no disposal takes place.
the quantity of product involved	Medium	N/A		
how and where it was disposed of	Medium	N/A		
2.9 Are veterinary health plans available which detail bio-security	Medium	Υ	CoGP 4.3.129, 5.3.83	
protocols, preventative measures and treatments in relation to sea lice?				
Consider the following points over a percentage of treatments conducted on site				
2.10 Has the recommended course of treatments been completed?	Medium	N		Some failed treatments due to a variety of circumstances. E.g weather, equipment issues, fish welfare. All recorded appropiately.
2.11 If not, is there a recorded acceptable reason for not completing treatment?	Medium	Υ	CoGP 4.3.135, 5.3.89	
2.12 Was advice taken from the Veterinary surgeon in such circumstances?	Medium	Y	CoGP 4.3.135, 5.3.89	

Point for consideration	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary
2.13 Are there clear written instructions regarding medicine use, available to those responsible for treatment administration?	Medium	Y	CoGP 4.3.133, 5.3.87	
2.14 Does the site have treatment discharge consents relevant to sea lice?		Υ	Detail if necessary:	
c. Inspection of records relating to farm management groups and	farm managen	nent agreements		
3.1 Is there a nominated farmer acting as coordinator and point of contact for this farm or area inclusive of this farm?	Low	Υ	SSI 1,5,b CoGP 4.3.75, 5.3.44	
3.2 Is there a written undertaking that the farm will observe the provisions of the NTS ⁶ ?	Low	Υ	CoGP 4.3.76, 5.3.45	
3.3 Has an area group been formed within the area containing the site?	Medium	Υ	CoGP 4.3.77, 5.3.46	
3.4 Does the remit of the area group have appropriate veterinary involvement? Consider: -agreed basis for monitoring sea lice -coordinated monitoring and treatment -co-operation between participating farms	Medium	Y	CoGP 4.3.77, 5.3.46 SSI 1,5, c	
This may require follow up investigation conducted off site to determine			1	
3.5 Are records available of any decisions made by the FMG in relation to the prevention, control and reduction of parasites?	Low	N	SSI 1, 5, c	
3.6 Where treatments have been administered is this done in accordance with principles to maximise the effectiveness of treatments, promote the minimal use of medicines consistent with the maintenance of high standards of fish welfare and help preserve their efficacy?	Medium	Υ	4.3.82, 5.3.51	
For example, the principles of ISLM include: Resistance monitoring – reporting suspected adverse drug event (SADE) to the VMD.				
The steps to determine if resistance is considered a reason for a suspected lack of efficacy (e.g. Bio-assay tests and results, seeking veterinary advice)				
Appropriate discharge consent in place Use of authorized medicines with veterinary instruction and advice as necessary				
Monitoring lice numbers Using an array of treatments where possible Treating all stocks on site at the same time				
Avoiding the simultaneous use of different active ingredients Avoiding consecutive treatments of the same active ingredient, and certainly not on the same cohort of lice				

Point for consideration	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary
Routine removal of moribund fish and regular removal of mortalities.				g
3.7 Are weekly monitoring results communicated to other farmers within the defined area?	High	Y	CoGP 4.3.78, 5.3.47	
3.8 Is this done 'as soon as reasonably possible where lice numbers exceed the suggested criteria for treatment?	High	Y	CoGP 4.3.79, 5.3.48	
3.9 Is sea lice data and other information relevant to the management of sea lice provided to the SSPO?	Low	Y	CoGP 4.3.80, 5.3.49	
3.10 Are annual review meetings held by FMA groups to evaluate site performance against set criteria?	High	N	CoGP 4.3.83, 5.3.52	Quarterly meetings with SSF have been arranged.
3.11 Is there a signed documented farm management agreement or farm management statement relevant to the site and CoGP Farm Management Area (or equivalent)?		Y	AFSA ¹³ 4A	Farm management statement in place.
3.12 Are up to date copies of FMS available from other APB operating within the same FMA?	Medium	Y	Detail if necessary: CoGP 4.3.88, 5.3.57	
3.13 Are significant changes to FMS notified to other companies within the FMA?	Medium	Y	CoGP 4.3.89, 5.3.58	
3.14 Is there co-operation between APB's operating within the FMA in the development and implementation of FMAg?	Medium	Υ	CoGP 4.3.90, 5.3.59	
3.15 Are copies of FMS or FMAg available for inspection?	Medium	Υ	AFSA 4B	
3.16 Does the FMS or FMAg take into account the relevant aspects regarding a sea lice control strategy?	Medium	Υ	CoGP 4.3.91, 5.3.60	
3.17 If the FMA has been redefined , is there documented evidence to demonstrate that the risks to health within and outwith the area is not increased by the proposal?	High ¹⁰	N/A	CoGP 4.3.92, 5.3.61	
3.18 Is the CoGP Farm Management Area (or equivalent) fallowed synchronously on a single year class basis?	High	N	CoGP 4.3.100	
3.19 If answered no to 3.18, then is there a documented risk assessment which meets the requirements of CoGP point 4.3.101?	High	N	CoGP 4.3.101	Addressed in FMS, but full risk assessment will be required.
d. Inspection of records relating to training and procedures				
4.1 Is there a training programme or plan in place relevant to sea lice control for the site?	High	Υ	CoGP 7.1.8	Sea lice identification training, Fish welfare,
4.2 Are training records available for relevant staff in relation to:			CoGP 4.1.6, 5.1.6 SSI, 1,1	
parasite identification	High	Υ	CoGP 4.3.84-86,	
counting parasites (procedures for)	High	Υ	5.3.53-55	Part of induction training.
recording counts	High	Υ		
biology and life cycle of parasites	Low	Υ		Covered under fish welfare training.
symptoms of parasite infection in fish	Low	Υ		

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Point for consideration	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary
4.3 Have staff been trained in the administration of treatments?	High	Υ	CoGP 4.1.6, 5.1.6 CoGP 4.3.84, 5.3.53	
N.B. there is no legal requirement to maintain a record of this				
Where records exist regarding SOPs and site procedures these				
should be inspected to confirm suitability				
e. Inspection of site and site stock		•	•	
5.1 Are medicines used, stored and disposed of safely?	Medium	Υ	VMD schedule 5	
5.2 Do the sea lice levels observed on stocks reflect sea lice count	High	Υ	1	
data?				
Refer to section e) of guidance notes				
5.3 Does the site appear satisfactory in terms of fish welfare relating	High	Υ		
to sea lice infestation?				
f. Inspection of farm count procedures				
6.1 Are pens and fish sampled at random?	Low	Υ	CoGP Annex 6,	
6.2 Have the personnel conducting counts had appropriate training in	High	Υ	4.3.84-86, 5.3.53-55	
lice recognition and recording?				
(Cross reference to training records – Section d)				
6.3 Can such personnel demonstrate post training competence?	High	Υ	CoGP 4.3.85, 5.3.54	
6.4 Do the sample sizes and methods of sampling match the CoGP suggested protocol (detailed iii – vii)?	Medium	Υ	Annex 6	
N.B. Other strategies are acceptable if considered adequate in the control and reduction of sea lice				
6.5 Is identification and recording of sea lice count information	High	Υ	Annex 6	
including species and stages observed to be correct?				
Minimum recording requirements within the CoGP and NTS are:				
for Caligus elongatus all identifiable stages and for Lepeophtheirus				
salmonis chalimus, mobiles and adult females (with or without egg				
strings) ¹¹				
6.6 Is the transfer of data from field counts to records observed to be	Medium	N/A	1	Did not observe due to Covid distancing requirements.
satisfactory?				σ - γ - γ - γ - γ - γ - γ - γ - γ - γ -
g. Inspection of treatment administration procedures				
7.1 Are treatments considered to be administered in an appropriate	High	N/A		No treatment observed.
competent manner?				
Consider appropriate use of tarpaulins; completion of medication per				
prescription, correct concentrations, mixing and administrations,				
appropriate product used				
7.2 Is accurate information provided to the attending veterinary	High	N/A	CoGP 4.3.131, 5.3.85	
surgeon for dosage calculation?				

Point for consideration	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary
7.3 Are the fish under consideration being given any other medication, or are they in a withdrawal period for any other medication?		N/A		
7.4 If so, has the prescribing veterinary surgeon been informed of this?	Medium	N/A	CoGP 4.3.132, 5.3.86	
7.5 Are clear instructions for medication, dosage and administration communicated to the staff responsible for treatment?	High	N/A	CoGP 4.3.133, 5.3.87	

Additional actions	Powers	Comments and advice given or action taken if necessary
h. FHI sea lice counts If necessary conduct a sea lice count in accordance with the protocol of the CoGP. Indicate where this procedure has been done and make a record of results within the comments box	Power granted under the Act — section 3 (2) (a)	
I. Collection of samples If necessary collect samples. Indicate if samples have been taken and detail what those samples are and the purpose of their collection	Power granted under the Act — section 3 (3) (a)	
j. Enforcement Notice. If an enforcement notice has been issued then maintain a copy / duplicate and record detail Guidance on completing the Enforcement Notice	Power granted under the Act – Section 6 (2)	

- [1] Scottish Statutory Instrument The Fish Farming Businesses (Record Keeping) (Scotland) Order 2008
- [2] A Code of Good Practice for Scottish Finfish Aquaculture
- [3] Water temperature to be measured at the half way point of the depth of the facility containing the fish, or as close to as possible. For SW cage sites one reading per count may be s
- [4] Recording requirements:- for C. elongatus all identifiable stages and for L. salmonis mobiles and adult females (with or without egg strings)
- [5] Area refers to management area as specified within Part 3 of the industry CoGP or as redefined appropriately
- [6] For reference Annex 6 of the CoGP provides the detail of the NTS
- [7] FMA = Farm Management Area
- [8] FMS = Farm Management Statement
- [9] FMAg = Farm Management Agreement
- [10] No further action may be required when answering no to this point and yes to 3.18
- [11] Legal recording requirements within the SSI stipulate for Caligus elongatus: mobiles; and for Lepeophtheirus salmonis: non-gravid mobiles and gravid females.
- [12] VMD The Veterinary Medicines Regulations 2013 (SI 2013 No 2033)

Point for consideration Risk level Satisfactory? Requirement Comments and advice given or action taken if necessary

[13] AFSA - Aquaculture and Fisheries (Scotland) Act 2007 (as amended)

		_				_		
Case No:	2021-0391			Date of visit:	06/10/2021			
Site No:	FS1101			Inspector:				
DIt- C	F			D-4	C N - 4:6:	·		
Results Summary	Freq.	Database	lnon		te of Notifica		lnon	end .
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp
Poport Cummon								
Report Summary	Dete	laas	ond .					
Case Type SLA	Date	Insp	2 nd Insp					
case compeltion	25/08/2022 24/01/2023							
case competition	24/01/2020							





SUMMARY FOR INFORMATION OF SITE OPERATOR

Business No FB0456 Date of Visit 06/10/2021

SITE NO FS1101 SITE NAME Etive 3 (Port na Mine)

Case No 20210391 INSPECTOR

ENHANCED SEA LICE INSPECTION

An enhanced sea lice inspection to ascertain the levels of sea lice and for assessing the measures in place for the prevention, control and reduction of sea lice was conducted in accordance with the Aquaculture and Fisheries (Scotland) Act 2007.

The visit consisted of an inspection of records with regards to sea lice, the stock on site, site procedures with regards to sea lice and the provision of advice.

Records

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.

a) Inspection of sea lice records

The site meets the requirement of current Scottish industry best practice. There were no recommendations made and no further action is required.

b) Inspection of records relating to treatment and control of sea lice

Although the site meets the requirement of current Scottish industry best practice, the sea lice records demonstrated that sea lice levels on site had been significantly above the suggested criteria for treatment despite the management actions undertaken.

It is recommended that the sea lice management strategy be reviewed, taking into account veterinary advice, where necessary, to ensure that an effective strategy is being implemented that will meet the requirements of the Code of Good Practice for Scottish Finfish Aquaculture (CoGP) and follow the standards associated with A National

Treatment Strategy for the Control of Sea Lice on Scottish Salmon Farms, as described in Annex 6 of the CoGP.

c) Inspection of records relating to farm management groups and area management agreements.

The following recommendations are made for improvement.

Records of decisions made by the farm management group in relation to the prevention, control and reduction of sea lice were not available.

It is recommended that to meet the requirements of schedule 1, section 5(c) of the Fish Farming Business (Record Keeping) (Scotland) Order 2008 a record should be kept of any decision made by the area management group relating to the prevention, control and reduction of sea lice.

During inspection it was determined that annual review meetings had not been held by the farm management area group with a view to evaluating site performance against set criteria with regards to sea lice management. Quarterly meetings have since been arranged amongst the farm management area group.

It is recommended that in accordance with A Code of Good Practice for Scottish Finfish Aquaculture (CoGP) (Chapter 4 point 3.83) annual review meetings should be convened by the farm management area group to evaluate performance of the farms within the area in regards to the criteria set out in the National Treatment Strategy for the Control of Sea Lice on Scottish Salmon Farms, as described in Annex 6 of the CoGP

The farm management area is not fallowed synchronously on a single year class basis, however a risk assessment was not carried out to determine the risk to other businesses in the area.

It is recommended that in accordance with A Code of Good Practice for Scottish Finfish Aquaculture (CoGP) (Chapter 4, point 3.100) the farm management area should be fallowed synchronously on a single year class basis.

Alternatively, it is recommended that in accordance with A Code of Good Practice for Scottish Finfish Aquaculture (CoGP) (Chapter 4, point 3.101) a documented risk assessment, which considers the risks to the company's own operations and to the operations of other companies operating within the farm management area and any adjacent areas, should be undertaken, to include strategies to be followed for pathogen and parasite control in the absence of fallowing.

d) Inspection of records relating to training and procedures

The site meets the requirement of current Scottish industry best practice. No recommendations made or further action required.

e) Inspection of site and site stock

The site meets the requirement of current Scottish industry best practice. No recommendations made or further action required.

f) Inspection of farm count procedures

An inspection of site staff conducting and recording a sea lice count was carried out. This met the requirements of The Fish Farming Business (Record Keeping) (Scotland) Order 2008 and CoGP. No further recommendations or further action required.

The transfer of data from field counts to records could not be observed due to Covid-19 social distancing requirements.

q) Inspection of treatment administration procedures

Procedures were not inspected as a treatment was not taking place at the time of inspection. However, discussions on procedures with the company correspondent would suggest that the site meets the requirement of current Scottish industry best practice.

Further Action

The recommendations in this report should be implemented by **01/12/2022**. Documentation should be provided as evidence that the recommendations have been implemented. Enforcement action may result if the recommendations are not implemented in the necessary time frame. Records should be sent to Marine Scotland Science's Fish Health Inspectorate (FHI) (contact details are provided below).



Signed:

charter/

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-

Date: 25/08/2022





SUMMARY FOR INFORMATION OF SITE OPERATOR

Business No FB0456 **Date of Visit** 06/10/2021

SITE NO FS1101 SITE NAME Etive 3 (Port na Mine)

Case No 20210391 Inspector

Case completion report

Recommendations in relation to the above case were made for implementation by 01/12/2022. Following submission of the required documentation, evidence has now been provided to Marine Scotland to demonstrate that the recommendations have been implemented.

This case will now be closed. This site may be subject to further audit and recommendations in the future.

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

Signed: Date: 24/01/2023

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/

FHI 059, Version 13		Issued by: FHI	Date of issue: 12/05/2020
Case No: 2021-0392			Date of visit: 06/10/2021
Time spent on site:	8 hours	Main Inspec	tor:
Site No: FS1112 Business No: FB0456	Site Name: Business Name:	Etive 4 Dawnfresh Farming Ltd	
Case Types: 1 SLA	23	4 5	6
Water Temp (°C):	Thermometer No:		FHI 045 completed N/A
Observations:	Region: ST	Water type: S	CoGP MA M-36
Dead/weak/abnormally behavin Clinical signs of disease observ Gross pathology observed? Diagnostic samples taken?	•	N If yes, see additional info	ormation/clinical score sheet. ormation/clinical score sheet. ormation/clinical score sheet.
UNI/REG only - if unable to carr	ry out intended visit deta	ail reason below:	

Additional Case Information:

Salmosan and AMX treatments conducted on 3rd of September - With more AMX treatments planned next week.

All 2019 fish will be harvested out in the next week.

Well boat has been hired in to harvest out the fish on site, (2019) stock, another treatment boat has been in the loch doing bath treatments. 780 tonnes have been harvested since the 13th of September - Salmosan treatments for the 2021 fish on site. 2019 fish will all be harvested.

treatment boat came in on week 27 - Hydrolicer - Good results - mortality was normal

Lice numbers rose sharply after the Hydrolicer treatments, consistent with resettlement - Different Hydrolicer used 3rd of August.

It was reported anecdotally that the first Hydrolicer that arrived in week 27 had a malfunction that led to removed lice being leaked back into the loch, this could have contributed to the rapid increased in sea lice numbers observed in July.

Rainfall and water temperature have both been at an unusually low and high extremes respectively. Company in the opinion that this has massively contributed to the unusual high levels of lice observed on fish.

Remote paperwork completed by , onsite inspection and physical record check carried out by

Grazing evident in most pens. High lice burden evident on fish, particularly pens with larger fish. Pens with different size fish. On multiple pens observed dead fish in the top meters of the net.

Fish get spooked and race round the pens then jump and get stuck in the gathered net at the top. Observed this racing behaviour on a few pens across all the Etive sites.

Discussed that these nets should be fastened differently to prevent this kind of thing from happening in future.

Variation between reported mortality number and submitted mortality number - wk37 - Lots of harvesting going on during this period so numbers were updated post inspection. Mortality counts have been updated.

Some records received and checked 30/11/22, 13/12/22 and meeting to discuss further documents and plans 13/01/23. Case to be closed following discussion and review of provided materials. (24/01/23)

FHI 059, Version 13		_	Issu	ed by: FHI		Date of issu	e: 12/05/2020
Case No:	2021-0392		Site No:	FS1112			
Date of Visit:		06/10/2021]		Inspector(s):		ı
Registration/Autho	risation Deta	ails					
1. Business/site deta	ails summary	checked by s	ite representa	ative?		Υ	1
2. Changes made to	details?					N]
Site Details (includ	e cleaner fis	h for all sect	ions)				
Total No facilities		10	Facilities sto	cked	8	No facilities inspected	8
Species	RTR	RTR	RTR				
Age group	2019	2020	2021				
No Fish	35,000	94,000	91,000				
Mean Fish Wt	3.4	1.6	1.6				
Next Fallow Date (Si		Feb 2023		Next Input Da	te (Site)	March 2023	
Recent (last 4 wks)	•	ems?		•		(since last visit)?	N
If yes, detail:	Gill issues.					,	
3. Are records complete and correctly entered? 4. Are movement records available for dead fish and waste? 5. Are records complete and correctly entered? 6. Are health certificates for introductions (outwith GB) available? Transport Records 1. Are any movements carried out by (or on behalf) of the business (not using a STB)? If yes, is there a system in place for maintenance of transportation records?							Y Y N/A
Mortality Records							
1. Mortality records a							Y
2. How are mortalitie	s disposed o	f?			Whole fish - I	Dundas Chemicals	
If other detail:							
Mortality records complete and correctly entered?							Y
4. Recent mortality (last 4 wks): wk39(2.17%-6535),wk38(0.43%-1389),wk37(2.18%-7315),wk36(0.61%-).61%-2176)	
5. Evidence of recent increased/atypical mortalities?						Y	
If yes, facility nos/no mortality per facility/no stock per facility/reason:							
6. Any other peaks in mortality during period checked?							Y
If yes, detail: wk 32, 33, 34, 37 and 39 - all attributed to gill issues (environmental insult) and post treatment.							
7. Have increased (u	ınexplained) ı	mortalities be	en reported to	vet or FHI?			N/A
If yes, detail action:							
8. Have 'mortality events' been reported to FHI? If no, enter details on mortality events sheet.						Y	

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

Treatments and Med							
1. Recent treatments	`	,					
If yes, detail:		TMS Salmo	san	AMX			
If other, detail:							
2. Medicines records		•					
3. Are records complete.		ctly entered?					
4. Are fish in a withdr	•						
5. If yes, what treatm	ent(s)?			TMS	Salmosan	AMX	
If other, detail:							
6. Are medicines stor	red appropriat	ely?					
Biosecurity Records							
1. Biosecurity records							
2. Has the manner ar	nd frequency	of mortality removal	, reco	ording and sa	afe disposal be	en considered?	
3. Has the manner ar	•				sters or veterina	ary professional of a	any
increased (unexplain	ned) mortality	at the site been inc	luded	?			
4. Has the action that							disease
is detected been inclu	uded and <i>how</i>	and when that will	be n	otified to Sc	ottish Ministers	?	
5. Has the health stat	tus of aquacul	lture animals being	stock	ed on the fa	rm site been co	vered (equal or hig	her
health status, certifica	ation if require	ed)?					
6. Have the husband	ry and biosecu	urity measures impl	emen	nted between	n each epidemi	ological unit to mini	mise
transmission of disea	ise been cove	red (movement of s	staff, v	visitors, equi	ipment, live or o	lead fish etc.)?	
7. Is documentation available regarding the measures in place to maintain the physical containment of							
aquaculture animals	held on site?						
8. Have the biosecuri	ity procedures	been adequately in	mplen	nented on si	te?		
If no, detail:							
Results of Surveilla	nce						
1. Has any animal he	alth surveillan	nce been carried ou	t by, c	or on behalf	of, the business	?	
2. If yes, are results a	available for in	spection?					
3. Any significant resi	ults?						
If yes, detail (if not de	tailed under r	ecent disease prob	lems)				
R	Records check	ed between:		15/06/202	1-06/10/2021		

Case No: 2021-0392	Site No:	FS1112
Date of visit: 06/10/2021	Inspector(s):	

Point for consideration Risk level Satisfactory? Requirement Comments and advice given or action taken if necessary

ENHANCED SEA LICE INSPECTION CHECKLIST

a. Inspection of sea lice records						
1.1 Are sea lice count records available for inspection?	Medium	Υ	CoGP 1.2.1, 1.2.2,			
1.2 Do records adequately reflect the required standard specified in	Low & Medium	Υ	Annex 6			
the SSI ¹ and the CoGP ² ?			SSI 1,2,			
(Counts should be weekly, record the person making the count, date						
of the count, number of fish sampled (should be 25), pen or facility						
number recorded, water temperature ³ , number of parasites observed						
and correct stages recorded ⁴						
1.3 Where weekly counts are not conducted is the reason for not	Low	Υ	SSI 1,2(g)			
conducting the count stated?						
1.4 Is that reason considered acceptable by the Inspector? Give	Low	N/A				
detail.						
1.5 Has the site experienced sea lice problems in the previous 4		Υ	Detail if necessary:	2019 and late 2021 - see additional info.		
years?						
b. Inspection of records relating to treatment and control of sea lie	ce					
2.1 Has appropriate action been taken where:						
a) L. salmonis record levels have been above the suggested criteria	High	Υ	CoGP Annex 6	Treatments conducted and harvest plan enacted.,		
for treatment?						
b) C. elongatus infestation is at a level considered to cause significant welfare problems	High	N/A	CoGP 4.3.81, 5.3.50			
2.2 Is therapeutic treatment initiated ASAP where required?	Medium	Υ	CoGP 4.3.130, 5.3.84	treatment trigger level of 0.3 total lice per fish.		
2.3 Where medicines have been administered there should be a			VMD ¹² 19			
record of :			SSI 1,3			
the name / identity of the product	High	Υ				
the date of administration	High	Υ				
the quantity (concentration and amount) administered	High	Υ				
the method of administration of the product	High	Υ				
the identification of the fish / facilities treated	High	Υ				
name of the person administering the treatment	Low	Υ				
the withdrawal period	Medium	Υ				
2.4 If the medicine is administered by a veterinary surgeon:			VMD 18			
the name of the veterinary surgeon	High	Υ				
name of the product	High	Υ				
batch number	High	Υ				

Point for consideration	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary
the date of administration	High	Υ		
amount administered	High	Υ		
identification of fish treated	High	Υ		
withdrawal period	Medium	Υ		
2.5 Have therapeutic treatments or the actions taken had a significant impact upon the lice levels recorded?	High	Υ		
Inspect records to confirm. Significant impact - ≥50% reduction in site average <i>L.salmonis</i> numbers (all stages)				
2.6 If other methods are employed on site to control sea lice and their impact is there a record of:	Low	Y	SSI, 1,4	
the nature and date of the method employed; the identification number of all facilities subjected to the method; the name of the person employing the method				
2.7 Where medicines have been acquired is there a record of:			VMD 19	
proof of purchase of the medicine concerned	Medium	Υ	VMD 17	
name of the product	High	у		
batch number	High	у		
the date of purchase	Medium	у		
the quantity purchased	High	у		
the name and address of the supplier	Medium	у		
2.8 Where medicines have been disposed is there a record of:			VMD 19	
the date of disposal	Medium	N/A		All medicine is used on site, so no disposal takes place.
the quantity of product involved	Medium	N/A		
how and where it was disposed of	Medium	N/A		
2.9 Are veterinary health plans available which detail bio-security protocols, preventative measures and treatments in relation to sea lice?	Medium	Υ	CoGP 4.3.129, 5.3.83	
Consider the following points over a percentage of treatments				
conducted on site				
2.10 Has the recommended course of treatments been completed?	Medium	Y	CoGP 4.3.134, 5.3.88	
2.11 If not, is there a recorded acceptable reason for not completing treatment?	Medium	Y	CoGP 4.3.135, 5.3.89	
2.12 Was advice taken from the Veterinary surgeon in such circumstances?	Medium	Υ	CoGP 4.3.135, 5.3.89	
2.13 Are there clear written instructions regarding medicine use, available to those responsible for treatment administration?	Medium	Ý	CoGP 4.3.133, 5.3.87	

Point for consideration	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary
2.14 Does the site have treatment discharge consents relevant to sea		Υ	Detail if necessary:	J
lice?			· ·	
c. Inspection of records relating to farm management groups and	farm managen	nent agreements		
3.1 Is there a nominated farmer acting as coordinator and point of	Low	Υ	SSI 1,5,b	
contact for this farm or area inclusive of this farm?			CoGP 4.3.75, 5.3.44	
3.2 Is there a written undertaking that the farm will observe the	Low	Υ	CoGP 4.3.76, 5.3.45	
provisions of the NTS ⁶ ?				
3.3 Has an area group been formed within the area containing the site?	Medium	Υ	CoGP 4.3.77, 5.3.46	
3.4 Does the remit of the area group have appropriate veterinary	Medium	Y	CoGP 4.3.77, 5.3.46	
involvement? Consider: -agreed basis for monitoring sea lice			SSI 1,5, c	
-agreed basis for monitoring sea lice -coordinated monitoring and treatment				
-co-operation between participating farms				
This may require follow up investigation conducted off site to				
determine				
3.5 Are records available of any decisions made by the FMG in	Low	N	SSI 1, 5, c	
relation to the prevention, control and reduction of parasites?				
3.6 Where treatments have been administered is this done in	Medium	Υ	4.3.82, 5.3.51	
accordance with principles to maximise the effectiveness of				
treatments, promote the minimal use of medicines consistent with the				
maintenance of high standards of fish welfare and help preserve their efficacy?				
For example, the principles of ISLM include:				
Resistance monitoring – reporting suspected adverse drug event				
(SADE) to the VMD.				
The steps to determine if resistance is considered a reason for a				
suspected lack of efficacy (e.g. Bio-assay tests and results, seeking				
veterinary advice)				
Appropriate discharge consent in place				
Use of authorized medicines with veterinary instruction and advice as				
necessary Monitoring lice numbers				
Using an array of treatments where possible				
Treating all stocks on site at the same time				
Avoiding the simultaneous use of different active ingredients				
Avoiding consecutive treatments of the same active ingredient, and				
certainly not on the same cohort of lice				
Routine removal of moribund fish and regular removal of mortalities.				
2.7 Are wealth manifesing results commission to the ofference	Llieda	V	CoCD 4 2 70 5 2 47	
3.7 Are weekly monitoring results communicated to other farmers within the defined area?	High	T	CoGP 4.3.78, 5.3.47	
within the defined area:				

Point for consideration	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary
3.8 Is this done 'as soon as reasonably possible where lice numbers	High	Υ	CoGP 4.3.79, 5.3.48	
exceed the suggested criteria for treatment?				
3.9 Is sea lice data and other information relevant to the management of sea lice provided to the SSPO?	Low	Υ	CoGP 4.3.80, 5.3.49	
3.10 Are annual review meetings held by FMA groups to evaluate site performance against set criteria?	High	Υ	CoGP 4.3.83, 5.3.52	
3.11 Is there a signed documented farm management agreement or farm management statement relevant to the site and CoGP Farm Management Area (or equivalent)?		Y	AFSA ¹³ 4A Detail if necessary:	FMS in place.
3.12 Are up to date copies of FMS available from other APB operating within the same FMA?	Medium	у	CoGP 4.3.88, 5.3.57	
3.13 Are significant changes to FMS notified to other companies within the FMA?	Medium	У	CoGP 4.3.89, 5.3.58	
3.14 Is there co-operation between APB's operating within the FMA in the development and implementation of FMAg?	Medium	У	CoGP 4.3.90, 5.3.59	
3.15 Are copies of FMS or FMAg available for inspection?	Medium	У	AFSA 4B	
3.16 Does the FMS or FMAg take into account the relevant aspects regarding a sea lice control strategy?	Medium	У	CoGP 4.3.91, 5.3.60	
3.17 If the FMA has been redefined, is there documented evidence to demonstrate that the risks to health within and outwith the area is not increased by the proposal?	High ¹⁰	N/A	CoGP 4.3.92, 5.3.61	
3.18 Is the CoGP Farm Management Area (or equivalent) fallowed synchronously on a single year class basis?	High	N	CoGP 4.3.100	
3.19 If answered no to 3.18, then is there a documented risk assessment which meets the requirements of CoGP point 4.3.101?	High	N	CoGP 4.3.101	Addressed in FMS, but full risk assessment needed.
d. Inspection of records relating to training and procedures				·
4.1 Is there a training programme or plan in place relevant to sea lice control for the site?	High	Υ	CoGP 7.1.8	
4.2 Are training records available for relevant staff in relation to:			CoGP 4.1.6, 5.1.6 SSI, 1,1	
parasite identification	High	Υ	CoGP 4.3.84-86,	
counting parasites (procedures for)	High	Υ	5.3.53-55	
recording counts	High	Υ		
biology and life cycle of parasites	Low	Υ		
symptoms of parasite infection in fish	Low	Υ		
4.3 Have staff been trained in the administration of treatments?	High	Y	CoGP 4.1.6, 5.1.6 CoGP 4.3.84, 5.3.53	

Point for consideration	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary
N.B. there is no legal requirement to maintain a record of this				,
Where records exist regarding SOPs and site procedures these				
should be inspected to confirm suitability				
e. Inspection of site and site stock				
5.1 Are medicines used, stored and disposed of safely?	Medium	Y	VMD schedule 5	
5.2 Do the sea lice levels observed on stocks reflect sea lice count data?	High	Y		
Refer to section e) of guidance notes				
5.3 Does the site appear satisfactory in terms of fish welfare relating to sea lice infestation?	High	Y		
f. Inspection of farm count procedures				
6.1 Are pens and fish sampled at random?	Low	У	CoGP Annex 6,	
6.2 Have the personnel conducting counts had appropriate training in lice recognition and recording?	High	у	4.3.84-86, 5.3.53-55	
(Cross reference to training records – Section d)				
6.3 Can such personnel demonstrate post training competence?	High	У	CoGP 4.3.85, 5.3.54	
6.4 Do the sample sizes and methods of sampling match the CoGP suggested protocol (detailed iii – vii)?	Medium	у	Annex 6	
N.B. Other strategies are acceptable if considered adequate in the control and reduction of sea lice				
6.5 Is identification and recording of sea lice count information including species and stages observed to be correct?	High	У	Annex 6	
Minimum recording requirements within the CoGP and NTS are:			1	
for Caligus elongatus all identifiable stages and for Lepeophtheirus salmonis chalimus, mobiles and adult females (with or without egg strings) ¹¹				
6.6 Is the transfer of data from field counts to records observed to be	Medium	N/A	1	Did not observed due to Covid distancing requirements.
satisfactory?				
g. Inspection of treatment administration procedures		- India		
7.1 Are treatments considered to be administered in an appropriate competent manner?	High	N/A		no treatment observed.
Consider appropriate use of tarpaulins; completion of medication per prescription, correct concentrations, mixing and administrations,				
appropriate product used				
7.2 Is accurate information provided to the attending veterinary	High	N/A	CoGP 4.3.131, 5.3.85	
surgeon for dosage calculation?				
7.3 Are the fish under consideration being given any other medication, or are they in a withdrawal period for any other medication?		N/A		

Point for consideration	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary
7.4 If so, has the prescribing veterinary surgeon been informed of this?	Medium	N/A	CoGP 4.3.132, 5.3.86	
	High	N/A	CoGP 4.3.133, 5.3.87	

Additional actions	Powers	Comments and advice given or action taken if necessary
	Power granted under the Act – section 3 (2) (a)	
·	Power granted under the Act — section 3 (3) (a)	
j. Enforcement Notice. If an enforcement notice has been issued then maintain a copy / duplicate and record detail Guidance on completing the Enforcement Notice	Power granted under the Act – Section 6 (2)	

- [1] Scottish Statutory Instrument The Fish Farming Businesses (Record Keeping) (Scotland) Order 2008
- [2] A Code of Good Practice for Scottish Finfish Aquaculture
- [3] Water temperature to be measured at the half way point of the depth of the facility containing the fish, or as close to as possible. For SW cage sites one reading per count may be s
- [4] Recording requirements:- for C. elongatus all identifiable stages and for L. salmonis mobiles and adult females (with or without egg strings)
- [5] Area refers to management area as specified within Part 3 of the industry CoGP or as redefined appropriately
- [6] For reference Annex 6 of the CoGP provides the detail of the NTS
- [7] FMA = Farm Management Area
- [8] FMS = Farm Management Statement
- [9] FMAg = Farm Management Agreement
- [10] No further action may be required when answering no to this point and yes to 3.18
- [11] Legal recording requirements within the SSI stipulate for Caligus elongatus: mobiles; and for Lepeophtheirus salmonis: non-gravid mobiles and gravid females.
- [12] VMD The Veterinary Medicines Regulations 2013 (SI 2013 No 2033)
- [13] AFSA Aquaculture and Fisheries (Scotland) Act 2007 (as amended)

		_				_		
Case No:	2021-0392			Date of visit:	06/10/2021			
OH- N-	F04440							
Site No:	FS1112			Inspector:				
Results Summary	Freq.	Date of Notification						
, , , , , , , , , , , , , , , , , , , ,		Database	Insp		Insp	Writing	Insp	2 nd Insp
					·		·	L HIOP
Poport Cummon				1				
Report Summary	Dete	lman	ond .					
Case Type SLA	Date	Insp	2 nd Insp					
case completion	25/08/2022 24/01/2023							
case completion	24/01/2023							





SUMMARY FOR INFORMATION OF SITE OPERATOR

 BUSINESS No
 FB0456
 DATE of VISIT
 06/10/2021

 SITE No
 FS1112
 SITE NAME
 Etive 4

 CASE No
 20210392
 INSPECTOR

Case completion report

Recommendations in relation to the above case were made for implementation by 01/12/2022. Following submission of the required documentation, evidence has now been provided to Marine Scotland to demonstrate that the recommendations have been implemented.

This case will now be closed. This site may be subject to further audit and recommendations in the future.

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

Signed: Date: 24/01/2023
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/





SUMMARY FOR INFORMATION OF SITE OPERATOR

 Business No
 FB0456
 Date of Visit
 06/10/2021

 Site No
 FS1112
 Site Name
 Etive 4

 Case No
 20210392
 Inspector

ENHANCED SEA LICE INSPECTION

An enhanced sea lice inspection to ascertain the levels of sea lice and for assessing the measures in place for the prevention, control and reduction of sea lice was conducted in accordance with the Aquaculture and Fisheries (Scotland) Act 2007.

The visit consisted of an inspection of records with regards to sea lice, the stock on site, site procedures with regards to sea lice and the provision of advice.

Records

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.

a) Inspection of sea lice records

The site meets the requirement of current Scottish industry best practice. There were no recommendations made and no further action is required.

b) Inspection of records relating to treatment and control of sea lice

Although the site meets the requirement of current Scottish industry best practice, the sea lice records demonstrated that sea lice levels on site had been significantly above the suggested criteria for treatment despite the management actions undertaken.

It is recommended that the sea lice management strategy be reviewed, taking into account veterinary advice, where necessary, to ensure that an effective strategy is being implemented that will meet the requirements of the Code of Good Practice for Scottish Finfish Aquaculture (CoGP) and follow the standards associated with A National Treatment Strategy for the Control of Sea Lice on Scottish Salmon Farms, as described in Annex 6 of the CoGP.

c) Inspection of records relating to farm management groups and area management agreements.

The following recommendations are made for improvement.

Records of decisions made by the farm management group in relation to the prevention, control and reduction of sea lice were not available.

It is recommended that to meet the requirements of schedule 1, section 5(c) of the Fish Farming Business (Record Keeping) (Scotland) Order 2008 a record should be kept of any decision made by the area management group relating to the prevention, control and reduction of sea lice.

During inspection it was determined that annual review meetings had not been held by the farm management area group with a view to evaluating site performance against set criteria with regards to sea lice management. Quarterly meetings have since been arranged amongst the farm management area group.

It is recommended that in accordance with A Code of Good Practice for Scottish Finfish Aquaculture (CoGP) (Chapter 4 point 3.83) annual review meetings should be convened by the farm management area group to evaluate performance of the farms within the area in regards to the criteria set out in the National Treatment Strategy for the Control of Sea Lice on Scottish Salmon Farms, as described in Annex 6 of the CoGP

The farm management area is not fallowed synchronously on a single year class basis, however a risk assessment was not carried out to determine the risk to other businesses in the area.

It is recommended that in accordance with A Code of Good Practice for Scottish Finfish Aquaculture (CoGP) (Chapter 4, point 3.100) the farm management area should be fallowed synchronously on a single year class basis.

Alternatively, it is recommended that in accordance with A Code of Good Practice for Scottish Finfish Aquaculture (CoGP) (Chapter 4, point 3.101) a documented risk assessment, which considers the risks to the company's own operations and to the operations of other companies operating within the farm management area and any adjacent areas, should be undertaken, to include strategies to be followed for pathogen and parasite control in the absence of fallowing.

d) Inspection of records relating to training and procedures

The site meets the requirement of current Scottish industry best practice. No recommendations made or further action required.

e) Inspection of site and site stock

The site meets the requirement of current Scottish industry best practice. No recommendations made or further action required.

R25

f) Inspection of farm count procedures

An inspection of site staff conducting and recording a sea lice count was carried out. This met the requirements of The Fish Farming Business (Record Keeping) (Scotland) Order 2008 and CoGP. No further recommendations or further action required.

The transfer of data from field counts to records could not be observed due to Covid-19 social distancing requirements.

g) Inspection of treatment administration procedures

Procedures were not inspected as a treatment was not taking place at the time of inspection. However, discussions on procedures with the company correspondent would suggest that the site meets the requirement of current Scottish industry best practice.

Further Action

The recommendations in this report should be implemented by **01/12/2022**. Documentation should be provided as evidence that the recommendations have been implemented. Enforcement action may result if the recommendations are not implemented in the necessary time frame. Records should be sent to Marine Scotland Science's Fish Health Inspectorate (FHI) (contact details are provided below).

Signed:

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/

Date: 25/08/2022

FHI 059, Version 13		Issued by: FHI	Date of issue: 12/05/2020
Case No: 2021-0393			Date of visit: 06/10/2021
Time spent on site:	8 hours	Main Inspect	or:
Site No: FS1288 Business No: FB0456	Site Name: Business Name:	Etive 6 Dawnfresh Farming Ltd	
Case Types: 1 SLA	2 3	4 5	6
Water Temp (°C):	Thermometer No:		FHI 045 completed N/A
Observations:	Region: ST	Water type: S	CoGP MA M-36
Dead/weak/abnormally behavin Clinical signs of disease observ Gross pathology observed? Diagnostic samples taken?	N If yes, see additional info	rmation/clinical score sheet. rmation/clinical score sheet. rmation/clinical score sheet.	
UNI/REG only - if unable to care	ry out intended visit detai	l reason below:	

Additional Case Information:

Plan to early fallow etive 6, as it is closest to sea entrance. Smaller fish on site currently being treated with AMX. Will try to keep etive 6 fish if possible and treat where possible. Under constant review.

0.3 of total life stages is trigger level - Documented. Coincides with roughly 0.1 females.

treatment boat came in on week 27 - Hydrolicer - Good results - mortality was normal Lice numbers rose sharply after the Hydrolicer treatment, consistent with resettlement - Different Hydrolicer used 3rd of August.

It was reported anecdotally that the first Hydrolicer that arrived in week 27 had a malfunction that led to removed lice being leaked back into the loch, this could have contributed to the rapid increase in sea lice numbers observed in July.

Rainfall and water temperature have both been at an unusually low and high extremes respectively. Company in the opinion that this has massively contributed to the unusual high levels of lice observed on fish.

Remote paperwork completed by onsite inspection and physical record check carried out by

Worst affected pens by grazing 1, 3 and 6. Grazing evident but no open wounds caused by grazing. Lice numbers very high. Pens with different size fish.

Observed lice count and staff appeared knowledgeable. Two people counting, one person scribing. Started 2h Azasure bath treatment during visit.

Treated 1 pen yesterday, treating 3 pens today. Normally Treat 2 pens per day, one treatment was delayed yesterday. Treating whole site would take approximately a week

week 38 mortality submission does not match records. (slight difference) - Lots of harvesting at time of report, figures updated after inspection and mortality records updated.

Some records received and checked 30/11/22, 13/12/22 and meeting to discuss further documents and plans 13/01/23. Case to be closed following discussion and review of provided materials.

FHI 059, Version 13		_	Issu	ed by: FHI			Date of issue	e: 12/05/2020
Case No:	2021-0393		Site No:	FS1288				
Date of Visit:		06/10/2021	l		Inspector(s):			
Registration/Author	risation Deta	nils						
1. Business/site deta	ils summary	checked by s	ite representa	itive?			Υ	
2. Changes made to	details?						N	
Site Details (include	e cleaner fis	h for all secti	ions)					
Total No facilities		10	Facilities sto	cked	8	No facilities	s inspected	8
Species	RTR	RTR	RTR					
Age group	2019	2020	2021					
No Fish	40,000	270,000	79,000					
	2.4	1.3	280g					
Next Fallow Date (Si		end oct 2021		Next Input Da	te (Site)	Dec-21		
Recent (last 4 wks) o	lisease probl	ems?		Y	Any escapes	(since last v	/isit)?	Y
If yes, detail:	Gill health is:	sues						
 Are movement red Are records comple Are health certification Transport Records Are any movement If yes, is there a syst 	lete and corre ates for introd ts carried out	ectly entered? luctions (outw	ith GB) availa	able? siness (not usi	-			Y
Mortality Records								
1. Mortality records a		•						Y
	2. How are mortalities disposed of? Whole fish - Dundas Chemicals							
If other detail:	If other detail:							
3. Mortality records of		correctly ente						Y
4. Recent mortality (I	•			-9350)wk38(2.4	11%-11123)wl	k37(1.39%-	5607) wk36(0	.95% -
Evidence of recen		• •						Y
If yes, facility nos/no	• •	•						
Week 33 (2.37%) & 32 (1.15%)- Post treatment mortality, and gill health issues (enviromental insult)								
6. Any other peaks in mortality during period checked?							N	
If yes, detail:								
7. Have increased (u	nexplained) ı	mortalities be	en reported to	vet or FHI?				N/A
If yes, detail action:								
8. Have 'mortality eve	ents' been re	ported to FHI	? If no, enter o	details on morta	ality events sh	eet.		Y

FHI 059, Version 13	Issued by: FHI	Date of issue: 12/05/2020
Treatments and Medicines Decords		

Treetments and Madiaines Becards						
Treatments and Medicines Records 1. Recent treatments (see comment)?						
1. Recent treatments (see comment)? If yes, detail: AMX	TMC	Calmana			,	
	TMS	Salmosan				
If other, detail:	-4:O					
2. Medicines records available for inspec					ĭ	
3. Are records complete and correctly er	ntered?				Y	
4. Are fish in a withdrawal period?					Y	
5. If yes, what treatment(s)?		AMX	Salmosan	TMS		
If other, detail:						
6. Are medicines stored appropriately?					Y	
Biosecurity Records						
1. Biosecurity records available for inspe	ection?					
2. Has the manner and frequency of mo	rtality removal, reco	rding and safe	disposal beer	n considered?		
3. Has the manner and period in which t	he APB will notify S	cottish Minister	rs or veterinar	y professional of any		
increased (unexplained) mortality 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 disease						
is detected been included and <i>how</i> and <i>when</i> 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						
health status, certification if required)?						
6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minimise						
transmission of disease been covered (r	•		•	_		
7. Is documentation available regarding						
aquaculture animals held on site?						
8. Have the biosecurity procedures been	adequately implem	ented on site?	•			
If no, detail:	· unequatery impress					
Results of Surveillance						
Has any animal health surveillance be	en carried out by	r on hehalf of	the husiness?	>		
If yes, are results available for inspect	•	or bendir or,	the business.			
3. Any significant results?						
	disease problems)					
If yes, detail (if not detailed under recent disease problems).						
Records checked be	tween:	23/09/2021-0	06/10/2021			

Case No: 2021-0393 Site No: FS1288

Date of visit: 06/10/2021 Inspector(s):

Point for consideration Risk level Satisfactory? Requirement Comments and advice given or action taken if necessary

ENHANCED SEA LICE INSPECTION CHECKLIST

a. Inspection of sea lice records						
1.1 Are sea lice count records available for inspection?	Medium	٧	CoGP 1.2.1, 1.2.2,			
1.2 Do records adequately reflect the required standard specified in	Low & Medium	Y	Annex 6			
the SSI ¹ and the CoGP ² ?	Low a Mediam	•	SSI 1,2,			
(Counts should be weekly, record the person making the count, date						
of the count, number of fish sampled (should be 25), pen or facility						
number recorded, water temperature ³ , number of parasites observed						
and correct stages recorded ⁴						
1.3 Where weekly counts are not conducted is the reason for not	Low	Υ	SSI 1,2(g)			
conducting the count stated?						
1.4 Is that reason considered acceptable by the Inspector? Give	Low	Υ				
detail.						
1.5 Has the site experienced sea lice problems in the previous 4		Υ	Detail if necessary:	2019 and 2021 - see additional info.		
years?						
b. Inspection of records relating to treatment and control of sea li	ce					
2.1 Has appropriate action been taken where:						
a) L. salmonis record levels have been above the suggested criteria	High	Υ	CoGP Annex 6			
for treatment?						
b) C. elongatus infestation is at a level considered to cause significant	High	N/A	CoGP 4.3.81, 5.3.50			
welfare problems	N.A. allana	V	0-004242052	Triange 100 10		
2.2 Is therapeutic treatment initiated ASAP where required?	Medium	Υ		Trigger level of 0.3 total lice per fish		
2.3 Where medicines have been administered there should be a record of :			VMD ¹² 19			
	Lligh	· ·	SSI 1,3			
the name / identity of the product the date of administration	High	У				
	High	y				
the quantity (concentration and amount) administered	High	У				
the method of administration of the product the identification of the fish / facilities treated	High	У				
	High	У				
name of the person administering the treatment	Low	У				
the withdrawal period	Medium	У	VMD 40			
2.4 If the medicine is administered by a veterinary surgeon:	Lligh	v	VMD 18			
the name of the veterinary surgeon	High	У				
name of the product	High	У				
batch number	High	У				

Point for consideration	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary
the date of administration	High	у		
amount administered	High	У		
identification of fish treated	High	у		
withdrawal period	Medium	У		
2.5 Have therapeutic treatments or the actions taken had a significant	High	Υ		
impact upon the lice levels recorded?				
Inspect records to confirm. Significant impact - ≥50% reduction in site				
average L.salmonis numbers (all stages)				
2.6 If other methods are employed on site to control sea lice and their	Low	Υ	SSI, 1,4	
impact is there a record of:				
the nature and date of the method employed; the identification				
number of all facilities subjected to the method; the name of the person employing the method				
2.7 Where medicines have been acquired is there a record of:			VMD 19	
proof of purchase of the medicine concerned	Medium	Υ	VMD 17	
name of the product	High	Υ		
batch number	High	Υ	1	
the date of purchase	Medium	Υ	1	
the quantity purchased	High	Υ		
the name and address of the supplier	Medium	Υ	1	
2.8 Where medicines have been disposed is there a record of:			VMD 19	
the date of disposal	Medium	N/A	1	All medicine is used on site, so no disposal takes place.
the quantity of product involved	Medium	N/A	1	
how and where it was disposed of	Medium	N/A		
2.9 Are veterinary health plans available which detail bio-security	Medium	Υ	CoGP 4.3.129, 5.3.83	
protocols, preventative measures and treatments in relation to sea lice?				
Consider the following points over a percentage of treatments				
conducted on site				
2.10 Has the recommended course of treatments been completed?	Medium	N	CoGP 4.3.134, 5.3.88	Some failed treatments recorded, attributed to variety of reasons, e.g weather, equipment issues, fish welfare. All recorded appropiately.
2.11 If not, is there a recorded acceptable reason for not completing	Medium	V	CoGP 4.3.135, 5.3.89	
treatment?	wediaiii		COGF 4.3. 130, 3.3.89	
2.12 Was advice taken from the Veterinary surgeon in such circumstances?	Medium	Υ	CoGP 4.3.135, 5.3.89	
2.13 Are there clear written instructions regarding medicine use, available to those responsible for treatment administration?	Medium	Y	CoGP 4.3.133, 5.3.87	

Point for consideration	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary
2.14 Does the site have treatment discharge consents relevant to sea		Υ	Detail if necessary:	,
lice?			· ·	
c. Inspection of records relating to farm management groups and	farm managen	nent agreements		
3.1 Is there a nominated farmer acting as coordinator and point of	Low	у	SSI 1,5,b	
contact for this farm or area inclusive of this farm?			CoGP 4.3.75, 5.3.44	
3.2 Is there a written undertaking that the farm will observe the	Low	У	CoGP 4.3.76, 5.3.45	
provisions of the NTS ⁶ ?				
3.3 Has an area group been formed within the area containing the site?	Medium	У	CoGP 4.3.77, 5.3.46	
3.4 Does the remit of the area group have appropriate veterinary	Medium	У	CoGP 4.3.77, 5.3.46	
involvement? Consider: -agreed basis for monitoring sea lice			SSI 1,5, c	
-agreed basis for monitoring sea lice -coordinated monitoring and treatment				
-co-operation between participating farms				
This may require follow up investigation conducted off site to				
determine				
3.5 Are records available of any decisions made by the FMG in	Low	N	SSI 1, 5, c	
relation to the prevention, control and reduction of parasites?				
3.6 Where treatments have been administered is this done in	Medium	Υ	4.3.82, 5.3.51	
accordance with principles to maximise the effectiveness of				
treatments, promote the minimal use of medicines consistent with the				
maintenance of high standards of fish welfare and help preserve their efficacy?				
For example, the principles of ISLM include:				
Resistance monitoring – reporting suspected adverse drug event				
(SADE) to the VMD.				
The steps to determine if resistance is considered a reason for a				
suspected lack of efficacy (e.g. Bio-assay tests and results, seeking				
veterinary advice)				
Appropriate discharge consent in place				
Use of authorized medicines with veterinary instruction and advice as				
necessary Monitoring lice numbers				
Using an array of treatments where possible				
Treating all stocks on site at the same time				
Avoiding the simultaneous use of different active ingredients				
Avoiding consecutive treatments of the same active ingredient, and				
certainly not on the same cohort of lice				
Routine removal of moribund fish and regular removal of mortalities.				
2.7 And wealth manifesing regular communicated to all and an ex-	Llieda	.,	CoCD 4 2 70 5 2 47	
3.7 Are weekly monitoring results communicated to other farmers within the defined area?	High	У	CoGP 4.3.78, 5.3.47	
main are defined area:				

Point for consideration	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary
3.8 Is this done 'as soon as reasonably possible where lice numbers exceed the suggested criteria for treatment?	High	У	CoGP 4.3.79, 5.3.48	
3.9 Is sea lice data and other information relevant to the management of sea lice provided to the SSPO?	Low	У	CoGP 4.3.80, 5.3.49	
3.10 Are annual review meetings held by FMA groups to evaluate site performance against set criteria?	High	N	CoGP 4.3.83, 5.3.52	Quarterly meetings with SSF have since been arranged.
3.11 Is there a signed documented farm management agreement or farm management statement relevant to the site and CoGP Farm Management Area (or equivalent)?		У	AFSA ¹³ 4A Detail if necessary:	FMS in place
3.12 Are up to date copies of FMS available from other APB operating within the same FMA?	Medium	У	CoGP 4.3.88, 5.3.57	
3.13 Are significant changes to FMS notified to other companies within the FMA?	Medium	У	CoGP 4.3.89, 5.3.58	
3.14 Is there co-operation between APB's operating within the FMA in the development and implementation of FMAg?	Medium	У	CoGP 4.3.90, 5.3.59	
3.15 Are copies of FMS or FMAg available for inspection?	Medium	У	AFSA 4B	
3.16 Does the FMS or FMAg take into account the relevant aspects regarding a sea lice control strategy?	Medium	У	CoGP 4.3.91, 5.3.60	
3.17 If the FMA has been redefined, is there documented evidence to demonstrate that the risks to health within and outwith the area is not increased by the proposal?	High ¹⁰	N/A	CoGP 4.3.92, 5.3.61	
3.18 Is the CoGP Farm Management Area (or equivalent) fallowed synchronously on a single year class basis?	High	n	CoGP 4.3.100	
3.19 If answered no to 3.18, then is there a documented risk assessment which meets the requirements of CoGP point 4.3.101?	High	N	CoGP 4.3.101	addressed in FMS, but full risk assessment will need to be created.
d. Inspection of records relating to training and procedures				<u> </u>
4.1 Is there a training programme or plan in place relevant to sea lice control for the site?	High	Υ	CoGP 7.1.8	
4.2 Are training records available for relevant staff in relation to:			CoGP 4.1.6, 5.1.6 SSI, 1,1	
parasite identification	High	Υ	CoGP 4.3.84-86,	
counting parasites (procedures for)	High	Υ	5.3.53-55	
recording counts	High	Υ		
biology and life cycle of parasites	Low	Υ		
symptoms of parasite infection in fish	Low	Υ		
4.3 Have staff been trained in the administration of treatments?	High	Υ	CoGP 4.1.6, 5.1.6 CoGP 4.3.84, 5.3.53	

Point for consideration	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary
N.B. there is no legal requirement to maintain a record of this	TRIOR IOTOI	- Cational Congress	rtoquiromont	Commonto una autros givon er action taken in necessary
The mere to the regal requirement to maintain a reserve of this				
Where records exist regarding SOPs and site procedures these				
should be inspected to confirm suitability				
e. Inspection of site and site stock				
5.1 Are medicines used, stored and disposed of safely?	Medium	У	VMD schedule 5	
5.2 Do the sea lice levels observed on stocks reflect sea lice count	High	У		
data?				
Refer to section e) of guidance notes				
5.3 Does the site appear satisfactory in terms of fish welfare relating	High	У		
to sea lice infestation?				
f. Inspection of farm count procedures			In an :	
6.1 Are pens and fish sampled at random?	Low	У	CoGP Annex 6,	
6.2 Have the personnel conducting counts had appropriate training in lice recognition and recording?	High	У	4.3.84-86, 5.3.53-55	
(Cross reference to training records – Section d)			1	
6.3 Can such personnel demonstrate post training competence?	High	у	CoGP 4.3.85, 5.3.54	
6.4 Do the sample sizes and methods of sampling match the CoGP	Medium	V	Annex 6	
suggested protocol (detailed iii – vii)?		ľ		
N.B. Other strategies are acceptable if considered adequate in the				
control and reduction of sea lice				
6.5 Is identification and recording of sea lice count information	High	У	Annex 6	
including species and stages observed to be correct?				
Minimum recording requirements within the CoGP and NTS are:				
for Caligus elongatus all identifiable stages and for Lepeophtheirus				
salmonis chalimus, mobiles and adult females (with or without egg				
strings) ¹¹				
6.6 Is the transfer of data from field counts to records observed to be	Medium	N/A		did not observe due to covid distancing requirements.
satisfactory?				
g. Inspection of treatment administration procedures				
7.1 Are treatments considered to be administered in an appropriate competent manner?	High	N/A		
Consider appropriate use of tarpaulins; completion of medication per				
prescription, correct concentrations, mixing and administrations,				
appropriate product used				
7.2 Is accurate information provided to the attending veterinary	High	N/A	CoGP 4.3.131, 5.3.85	No treatment observed.
surgeon for dosage calculation?				
7.3 Are the fish under consideration being given any other medication,		N/A		
or are they in a withdrawal period for any other medication?				

Point for consideration	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary
· · · · · · · · · · · · · · · · · · ·	Medium	N/A	CoGP 4.3.132, 5.3.86	
this? 7.5 Are clear instructions for medication, dosage and administration	High	N/A	CoGP 4.3.133, 5.3.87	
communicated to the staff responsible for treatment?	riigii	14// (4.0.100, 0.0.07	

Additional actions	Powers	Comments and advice given or action taken if necessary
h. FHI sea lice counts	Power granted under the Act	
If necessary conduct a sea lice count in accordance with the protocol of the CoGP. Indicate where this procedure has been done and make a record of results within the comments box	- section 3 (2) (a)	
i. Collection of samples	Power granted under the Act	
If necessary collect samples. Indicate if samples have been taken and detail what those samples are and the purpose of their collection	– section 3 (3) (a)	
j. Enforcement Notice.	Power granted under the Act	
If an enforcement notice has been issued then maintain a copy / duplicate and record detail	– Section 6 (2)	
Guidance on completing the Enforcement Notice		

- [1] Scottish Statutory Instrument The Fish Farming Businesses (Record Keeping) (Scotland) Order 2008
- [2] A Code of Good Practice for Scottish Finfish Aquaculture
- [3] Water temperature to be measured at the half way point of the depth of the facility containing the fish, or as close to as possible. For SW cage sites one reading per count may be s
- [4] Recording requirements:- for C. elongatus all identifiable stages and for L. salmonis mobiles and adult females (with or without egg strings)
- [5] Area refers to management area as specified within Part 3 of the industry CoGP or as redefined appropriately
- [6] For reference Annex 6 of the CoGP provides the detail of the NTS
- [7] FMA = Farm Management Area
- [8] FMS = Farm Management Statement
- [9] FMAg = Farm Management Agreement
- [10] No further action may be required when answering no to this point and yes to 3.18
- [11] Legal recording requirements within the SSI stipulate for Caligus elongatus: mobiles; and for Lepeophtheirus salmonis: non-gravid mobiles and gravid females.
- [12] VMD The Veterinary Medicines Regulations 2013 (SI 2013 No 2033)
- [13] AFSA Aquaculture and Fisheries (Scotland) Act 2007 (as amended)

Case No:	2021-0393			Date of visit:	06/10/2021			
		•						
Site No:	FS1288	J		Inspector:				
Results Summary	Freq.			Da	te of Notifica	tion		
, , , , , , , , , , , , , , , , , , , ,		Database	Insp		Insp	Writing	Insp	2 nd Insp
		-						
		<u> </u>						
Report Summary			ı	1				
Case Type	Date	Insp	2 nd Insp					
SLA	25/08/2022	ПОР	2 11130					
case completion	24/01/2023							
·								





SUMMARY FOR INFORMATION OF SITE OPERATOR

 Business No
 FB0456
 Date of Visit
 06/10/2021

 Site No
 FS1288
 Site Name
 Etive 6

 Case No
 20210393
 Inspector

Case completion report

Recommendations in relation to the above case were made for implementation by 01/12/2022. Following submission of the required documentation, evidence has now been provided to Marine Scotland to demonstrate that the recommendations have been implemented.

This case will now be closed. This site may be subject to further audit and recommendations in the future.

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

Signed: Date: 24/01/2023
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/





SUMMARY FOR INFORMATION OF SITE OPERATOR

 Business No
 FB0456
 Date of Visit
 06/10/2021

 Site No
 FS1288
 Site Name
 Etive 6

 Case No
 20210393
 Inspector

ENHANCED SEA LICE INSPECTION

An enhanced sea lice inspection to ascertain the levels of sea lice and for assessing the measures in place for the prevention, control and reduction of sea lice was conducted in accordance with the Aquaculture and Fisheries (Scotland) Act 2007.

The visit consisted of an inspection of records with regards to sea lice, the stock on site, site procedures with regards to sea lice and the provision of advice.

Records

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.

a) Inspection of sea lice records

The site meets the requirement of current Scottish industry best practice. There were no recommendations made and no further action is required.

b) Inspection of records relating to treatment and control of sea lice

Although the site meets the requirement of current Scottish industry best practice, the sea lice records demonstrated that sea lice levels on site had been significantly above the suggested criteria for treatment despite the management actions undertaken.

It is recommended that the sea lice management strategy be reviewed, taking into account veterinary advice, where necessary, to ensure that an effective strategy is being implemented that will meet the requirements of the Code of Good Practice for Scottish Finfish Aquaculture (CoGP) and follow the standards associated with A National Treatment Strategy for the Control of Sea Lice on Scottish Salmon Farms, as described in Annex 6 of the CoGP.

c) Inspection of records relating to farm management groups and area management agreements.

The following recommendations are made for improvement.

Records of decisions made by the farm management group in relation to the prevention, control and reduction of sea lice were not available.

It is recommended that to meet the requirements of schedule 1, section 5(c) of the Fish Farming Business (Record Keeping) (Scotland) Order 2008 a record should be kept of any decision made by the area management group relating to the prevention, control and reduction of sea lice.

During inspection it was determined that annual review meetings had not been held by the farm management area group with a view to evaluating site performance against set criteria with regards to sea lice management. Quarterly meetings have since been arranged amongst the farm management area group.

It is recommended that in accordance with A Code of Good Practice for Scottish Finfish Aquaculture (CoGP) (Chapter 4 point 3.83) annual review meetings should be convened by the farm management area group to evaluate performance of the farms within the area in regards to the criteria set out in the National Treatment Strategy for the Control of Sea Lice on Scottish Salmon Farms, as described in Annex 6 of the CoGP

The farm management area is not fallowed synchronously on a single year class basis, however a risk assessment was not carried out to determine the risk to other businesses in the area.

It is recommended that in accordance with A Code of Good Practice for Scottish Finfish Aquaculture (CoGP) (Chapter 4, point 3.100) the farm management area should be fallowed synchronously on a single year class basis.

Alternatively, it is recommended that in accordance with A Code of Good Practice for Scottish Finfish Aquaculture (CoGP) (Chapter 4, point 3.101) a documented risk assessment, which considers the risks to the company's own operations and to the operations of other companies operating within the farm management area and any adjacent areas, should be undertaken, to include strategies to be followed for pathogen and parasite control in the absence of fallowing.

d) Inspection of records relating to training and procedures

The site meets the requirement of current Scottish industry best practice. No recommendations made or further action required.

e) Inspection of site and site stock

The site meets the requirement of current Scottish industry best practice. No recommendations made or further action required.

R25

f) Inspection of farm count procedures

An inspection of site staff conducting and recording a sea lice count was carried out. This met the requirements of The Fish Farming Business (Record Keeping) (Scotland) Order 2008 and CoGP. No further recommendations or further action required.

The transfer of data from field counts to records could not be observed due to Covid-19 social distancing requirements.

g) Inspection of treatment administration procedures

Procedures were not inspected as a treatment was not taking place at the time of inspection. However, discussions on procedures with the company correspondent would suggest that the site meets the requirement of current Scottish industry best practice.

Further Action

Signed:

The recommendations in this report should be implemented by **01/12/2022**. Documentation should be provided as evidence that the recommendations have been implemented. Enforcement action may result if the recommendations are not implemented in the necessary time frame. Records should be sent to Marine Scotland Science's Fish Health Inspectorate (FHI) (contact details are provided below).

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/

Date: 25/08/2022

FHI 059, Version 13		Issued by: FHI	Date of issue: 12/05/2020			
Case No: 2021-0394			Date of visit: 06/10/2021			
Time spent on site:	8 hours	Main Inspect	or:			
Site No: FS1067 Business No: FB0456	Site Name: Business Name:	Inverawe (East) Etive 2 Dawnfresh Farming Ltd				
Case Types: 1 SLA	23	4 5	6			
Water Temp (°C):	Thermometer No:		FHI 045 completed N/A			
Observations:	Region: ST	Water type: S	CoGP MA M-36			
Dead/weak/abnormally behavin Clinical signs of disease observ Gross pathology observed? Diagnostic samples taken?	•	Y If yes, see additional information/clinical score sheet. N If yes, see additional information/clinical score sheet. N If yes, see additional information/clinical score sheet.				
UNI/REG only - if unable to carr	ry out intended visit deta	nil reason below:				

Additional Case Information:

Etive 2 to be fallowed - change from October to December, for longer fallow. Stocked again in march.

Etive 2 is normally stocked with new fish entering the site and is then split down to the other sites once fish have got bigger.

all of the 2019 year class fish are planned to be harvested out week beginning 18th of October.

Well boat has been hired in to harvest out the fish on site, (2019) stock, another treatment boat has been in the loch doing bath treatments. 780 tonnes have been harvested since the 13th of September - Salmosan treatments for the 2021 fish on site. 2019 fish will all be harvested.

Decision was made middle of august to harvest 2021 fish out and effort was made to acquire a well boat for that purpose.

0.3 of total life stages is trigger level - Documented. Coincides with roughly 0.1 females.

treatment boat came in on week 27 - Hydrolicer - Good results - mortality was normal

Lice numbers rose sharply after the Hydrolicer treatment, consistent with resettlement - a different Hydrolicer was used 3rd august.

It was reported anecdotally that the first Hydrolicer that arrived in week 27 had a malfunction that led to removed lice being leaked back into the loch, this could have contributed to the rapid increase in sea lice numbers observed in July.

Rainfall and water temperature have both been at an unusually low and high extremes respectively. Company in the opinion that this has massively contributed to the unusual high levels of lice observed on fish.

Remote paperwork completed by , onsite inspection and physical record check carried out by

Mostly small fish, visibility poor due to inclement weather and descending darkness and fish deeper in the water.

The smaller fish, that had not been stocked long on the site had no damage evident when seen. One pen with light grazing damage observed on some fish.

Discrepancy between mortality report in week 31 and site records. Large amount of harvesting and delayed mortality removal caused numbers to be updated post inspection. Correct figures have been collected and mortality records updated.

Some records received and checked 30/11/22, 13/12/22 and meeting to discuss further documents and plans 13/01/23. Case to be closed following discussion and review of provided materials. (24/01/23)

FHI 059, Version 13		_	Issu	ed by: FHI	_		Date of issue	e: 12/05/2020
Case No:	2021-0394		Site No:	FS1067				
Date of Visit:		06/10/2021	1		Inspector(s):			
Registration/Autho	risation Deta	ils						
1. Business/site deta	ails summary	checked by s	ite representa	itive?			Υ	
2. Changes made to	details?						N	
Site Details (includ	e cleaner fisl	h for all secti	ions)					
Total No facilities		6	Facilities sto	cked	5	No facilities	sinspected	5
Species	RTR	RTR						
Age group	2020	2021						
No Fish	73,000	151,000						
Mean Fish Wt	292g	558g						
Next Fallow Date (S	ite)	December		Next Input Da	te (Site)	March 2022	2	
Recent (last 4 wks)	disease probl	ems?		Y	Any escapes	(since last v	visit)?	N
If yes, detail:	Gill health is:	sues.						
3. Are records complete and correctly entered? 4. Are movement records available for dead fish and waste? 5. Are records complete and correctly entered? 6. Are health certificates for introductions (outwith GB) available? Transport Records 1. Are any movements carried out by (or on behalf) of the business (not using a STB)? If yes, is there a system in place for maintenance of transportation records?								
Mortality Records								
1. Mortality records a		•						Y
2. How are mortalitie	es disposed of	f?			Whole fish - I	Dundas Che	micals	
If other detail:								
3. Mortality records of	•	correctly ente						Y
4. Recent mortality (last 4 wks): wk39(2.60%-5986)wk38(0.15%-409)wk37(0.62%-1707)wk36(0.09%)								%-244)
5. Evidence of recent increased/atypical mortalities?								Y
If yes, facility nos/no mortality per facility/no stock per facility/reason:								
Backlog of mortality from gill health challenge, Divers off with covid, so delay in mortality retrieval.								
6. Any other peaks in mortality during period checked?								Y
If yes, detail: Week 31 - 3.2% - 9188 Post treatment and Environmental insult. 7. Have increased (unexplained) mortalities been reported to vet or FHI?								1 174
•	inexplained) i	mortalities be	en reported to	vet or FHI?				N/A
If yes, detail action:			0.16	1-1-1-	-156 6			· ·
8. Have 'mortality events' been reported to FHI? If no, enter details on mortality events sheet.								Y

FHI 059, Version 13		Į:	ssued by: FHI	Date of issue: 12/05/2020
Treatments and Medici	ines Records			
1. Recent treatments (se	ee comment)?			Y
If ves detail:	TMS	ΔΜΧ	NAZOMIAZ	

1. Recent treatments	s (see comme	ent)?					Y		
If yes, detail:	`	TMS	AMX	SALMOSA	١N		_		
If other, detail:									
2. Medicines records available for inspection?									
3. Are records comp	lete and corre	ectly entered	! ?				Y		
4. Are fish in a withd	lrawal period?	•					Y		
5. If yes, what treatn	nent(s)?			TMS	AMX	Salmosan			
If other, detail:									
6. Are medicines sto	red appropria	itely?					Y		
Biosecurity Record	ls								
1. Biosecurity record	ls available fo	r inspection	?						
2. Has the manner a	and frequency	of mortality	removal, rec	ording and sa	afe disposal b	een considered?			
3. Has the manner a	and period in v	which the AF	PB will notify S	Scottish Minis	sters or veteri	nary professional of any			
increased (unexplain	ned) mortality	at the site	been included	1?					
4. Has the action that	at will be taker	n in the ever	nt that the pre	sence or sus	picion of the	presence of a listed disea	ase		
is detected been inc									
			ils being stock	ked on the fa	rm site been o	covered (equal or higher			
health status, certific	cation if requir	ed)?							
	•	•	•		•	niological unit to minimise			
transmission of dise		•			•				
7. Is documentation			neasures in pl	ace to mainta	ain the physic	al containment of			
aquaculture animals									
8. Have the biosecu	rity procedure	s been ade	quately implei	mented on si	te?				
If no, detail:									
D 11 CO 311									
Results of Surveilla					- 6 4b bi	0			
1. Has any animal h			arried out by,	or on benair	or, the busine	SS?			
2. If yes, are results		nspection?							
3. Any significant res		recent disc	nco problems	1					
If yes, detail (if not d	etalled under	recent disea	ase problems	7.					

15/06/2021-06/10/2021

Records checked between:

Case No: 2021-0394 Site No: FS1067

Date of visit: 06/10/2021 Inspector(s):

Point for consideration Risk level Satisfactory? Requirement Comments and advice given or action taken if necessary

ENHANCED SEA LICE INSPECTION CHECKLIST

a. Inspection of sea lice records							
1.1 Are sea lice count records available for inspection?	Medium	Υ	CoGP 1.2.1, 1.2.2,				
1.2 Do records adequately reflect the required standard specified in	Low & Medium	Υ	Annex 6				
the SSI ¹ and the CoGP ² ?			SSI 1,2,				
(Counts should be weekly, record the person making the count, date							
of the count, number of fish sampled (should be 25), pen or facility							
number recorded, water temperature ³ , number of parasites observed							
and correct stages recorded ⁴							
1.3 Where weekly counts are not conducted is the reason for not	Low	Υ	SSI 1,2(g)				
conducting the count stated?							
1.4 Is that reason considered acceptable by the Inspector? Give	Low	Υ					
detail.							
1.5 Has the site experienced sea lice problems in the previous 4		Υ	Detail if necessary:	2019 & 2021 (autumn) - see additional info.			
years?							
b. Inspection of records relating to treatment and control of sea lie	ce						
2.1 Has appropriate action been taken where:	I Comb	V/	0-00 4				
a) L. salmonis record levels have been above the suggested criteria for treatment?	High	Y	CoGP Annex 6				
b) C. elongatus infestation is at a level considered to cause significant	High	N/A	CoGP 4.3.81, 5.3.50				
welfare problems	nigii	IN/A	COGF 4.3.61, 3.3.30				
2.2 Is therapeutic treatment initiated ASAP where required?	Medium	Υ	CoGP 4.3.130, 5.3.84				
2.3 Where medicines have been administered there should be a			VMD ¹² 19				
record of :			SSI 1,3				
the name / identity of the product	High	Υ					
the date of administration	High	Υ					
the quantity (concentration and amount) administered	High	Υ					
the method of administration of the product	High	Υ					
the identification of the fish / facilities treated	High	Υ					
name of the person administering the treatment	Low	Υ					
the withdrawal period	Medium	Υ					
2.4 If the medicine is administered by a veterinary surgeon:			VMD 18				
the name of the veterinary surgeon	High	Υ					
name of the product	High	Υ					
batch number	High	Υ					

Point for consideration	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary
the date of administration	High	Υ		
amount administered	High	Υ	1	
identification of fish treated	High	Υ		
withdrawal period	Medium	Υ		
2.5 Have therapeutic treatments or the actions taken had a significant impact upon the lice levels recorded?	High	Υ		
Inspect records to confirm. Significant impact - ≥50% reduction in site average <i>L.salmonis</i> numbers (all stages)				
2.6 If other methods are employed on site to control sea lice and their impact is there a record of:	Low	Υ	SSI, 1,4	
the nature and date of the method employed; the identification number of all facilities subjected to the method; the name of the person employing the method				
2.7 Where medicines have been acquired is there a record of:			VMD 19	
proof of purchase of the medicine concerned	Medium	У	VMD 17	
name of the product	High	У		
batch number	High	У		
the date of purchase	Medium	У		
the quantity purchased	High	У		
the name and address of the supplier	Medium	У		
2.8 Where medicines have been disposed is there a record of:			VMD 19	
the date of disposal	Medium	N/A		all medicine is used on site, so no disposal takes place.
the quantity of product involved	Medium	N/A		
how and where it was disposed of	Medium	N/A		
2.9 Are veterinary health plans available which detail bio-security protocols, preventative measures and treatments in relation to sea lice?	Medium	Υ	CoGP 4.3.129, 5.3.83	
Consider the following points over a percentage of treatments				
conducted on site				
2.10 Has the recommended course of treatments been completed?	Medium	Υ	CoGP 4.3.134, 5.3.88	
2.11 If not, is there a recorded acceptable reason for not completing treatment?	Medium	Y	CoGP 4.3.135, 5.3.89	
2.12 Was advice taken from the Veterinary surgeon in such circumstances?	Medium	Y	CoGP 4.3.135, 5.3.89	
2.13 Are there clear written instructions regarding medicine use, available to those responsible for treatment administration?	Medium	Y	CoGP 4.3.133, 5.3.87	

Point for consideration	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary
2.14 Does the site have treatment discharge consents relevant to sea		Υ	Detail if necessary:	,
lice?			· ·	
c. Inspection of records relating to farm management groups and	farm managen	nent agreements		
3.1 Is there a nominated farmer acting as coordinator and point of	Low	Υ	SSI 1,5,b	
contact for this farm or area inclusive of this farm?			CoGP 4.3.75, 5.3.44	
3.2 Is there a written undertaking that the farm will observe the	Low	У	CoGP 4.3.76, 5.3.45	
provisions of the NTS ⁶ ?				
3.3 Has an area group been formed within the area containing the site?	Medium	У	CoGP 4.3.77, 5.3.46	
3.4 Does the remit of the area group have appropriate veterinary	Medium	У	CoGP 4.3.77, 5.3.46	
involvement? Consider: -agreed basis for monitoring sea lice			SSI 1,5, c	
-agreed basis for morntoring sea lice -coordinated monitoring and treatment				
-co-operation between participating farms				
This may require follow up investigation conducted off site to				
determine				
3.5 Are records available of any decisions made by the FMG in	Low	N	SSI 1, 5, c	
relation to the prevention, control and reduction of parasites?				
3.6 Where treatments have been administered is this done in	Medium	Υ	4.3.82, 5.3.51	
accordance with principles to maximise the effectiveness of				
treatments, promote the minimal use of medicines consistent with the				
maintenance of high standards of fish welfare and help preserve their efficacy?				
For example, the principles of ISLM include:				
Resistance monitoring – reporting suspected adverse drug event				
(SADE) to the VMD.				
The steps to determine if resistance is considered a reason for a				
suspected lack of efficacy (e.g. Bio-assay tests and results, seeking				
veterinary advice)				
Appropriate discharge consent in place				
Use of authorized medicines with veterinary instruction and advice as				
necessary Monitoring lice numbers				
Using an array of treatments where possible				
Treating all stocks on site at the same time				
Avoiding the simultaneous use of different active ingredients				
Avoiding consecutive treatments of the same active ingredient, and				
certainly not on the same cohort of lice				
Routine removal of moribund fish and regular removal of mortalities.				
2.7 Are wealth manifesing genuite accounting to the offermore	Llieda		CoCD 4 2 70 5 2 47	
3.7 Are weekly monitoring results communicated to other farmers within the defined area?	High	У	CoGP 4.3.78, 5.3.47	
within the defined area:				

Point for consideration	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary
3.8 Is this done 'as soon as reasonably possible where lice numbers exceed the suggested criteria for treatment?	High	У	CoGP 4.3.79, 5.3.48	
3.9 Is sea lice data and other information relevant to the management of sea lice provided to the SSPO?	Low	У	CoGP 4.3.80, 5.3.49	
3.10 Are annual review meetings held by FMA groups to evaluate site performance against set criteria?	High	Υ	CoGP 4.3.83, 5.3.52	
3.11 Is there a signed documented farm management agreement or farm management statement relevant to the site and CoGP Farm Management Area (or equivalent)?		У	AFSA ¹³ 4A Detail if necessary:	Farm management Statement in place.
3.12 Are up to date copies of FMS available from other APB operating within the same FMA?	Medium	У	CoGP 4.3.88, 5.3.57	
3.13 Are significant changes to FMS notified to other companies within the FMA?	Medium	У	CoGP 4.3.89, 5.3.58	
3.14 Is there co-operation between APB's operating within the FMA in the development and implementation of FMAg?	Medium	У	CoGP 4.3.90, 5.3.59	
3.15 Are copies of FMS or FMAg available for inspection?	Medium	у	AFSA 4B	
3.16 Does the FMS or FMAg take into account the relevant aspects regarding a sea lice control strategy?	Medium	У	CoGP 4.3.91, 5.3.60	
3.17 If the FMA has been redefined, is there documented evidence to demonstrate that the risks to health within and outwith the area is not increased by the proposal?	High ¹⁰	N/A	CoGP 4.3.92, 5.3.61	
3.18 Is the CoGP Farm Management Area (or equivalent) fallowed synchronously on a single year class basis?	High	n	CoGP 4.3.100	
3.19 If answered no to 3.18, then is there a documented risk assessment which meets the requirements of CoGP point 4.3.101?	High	N	CoGP 4.3.101	Acknowledged in FMS but full risk assessment needed.
d. Inspection of records relating to training and procedures				<u> </u>
4.1 Is there a training programme or plan in place relevant to sea lice control for the site?	High	Υ	CoGP 7.1.8	
4.2 Are training records available for relevant staff in relation to:			CoGP 4.1.6, 5.1.6 SSI, 1,1	
parasite identification	High	Υ	CoGP 4.3.84-86,	
counting parasites (procedures for)	High	Υ	5.3.53-55	
recording counts	High	Υ		
biology and life cycle of parasites	Low	Υ		
symptoms of parasite infection in fish	Low	Υ		
4.3 Have staff been trained in the administration of treatments?	High	Y	CoGP 4.1.6, 5.1.6 CoGP 4.3.84, 5.3.53	

Point for consideration	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary
N.B. there is no legal requirement to maintain a record of this	I CHOICE TO TO T	Guiloraciory	rtoquiromont	Commonto una autros givon er action taken in necessary
The mere to the regal requirement to maintain a reserve of this				
Where records exist regarding SOPs and site procedures these				
should be inspected to confirm suitability				
e. Inspection of site and site stock				
5.1 Are medicines used, stored and disposed of safely?	Medium	У	VMD schedule 5	
5.2 Do the sea lice levels observed on stocks reflect sea lice count	High	У		
data?				
Refer to section e) of guidance notes				
5.3 Does the site appear satisfactory in terms of fish welfare relating	High	У		
to sea lice infestation?				
f. Inspection of farm count procedures			In an :	
6.1 Are pens and fish sampled at random?	Low	У	CoGP Annex 6,	
6.2 Have the personnel conducting counts had appropriate training in lice recognition and recording?	High	У	4.3.84-86, 5.3.53-55	
(Cross reference to training records – Section d)			1	
6.3 Can such personnel demonstrate post training competence?	High	У	CoGP 4.3.85, 5.3.54	
6.4 Do the sample sizes and methods of sampling match the CoGP	Medium	У	Annex 6	
suggested protocol (detailed iii – vii)?				
N.B. Other strategies are acceptable if considered adequate in the control and reduction of sea lice				
6.5 Is identification and recording of sea lice count information	High	у	Annex 6	
including species and stages observed to be correct?	, i			
Minimum recording requirements within the CoGP and NTS are:				
for Caligus elongatus all identifiable stages and for Lepeophtheirus				
salmonis chalimus, mobiles and adult females (with or without egg				
strings) ¹¹				
6.6 Is the transfer of data from field counts to records observed to be	Medium	N/A		Did not observe due to covid distancing restrictions.
satisfactory?				
g. Inspection of treatment administration procedures				
7.1 Are treatments considered to be administered in an appropriate competent manner?	High	N/A		No treatment was observed.
Consider appropriate use of tarpaulins; completion of medication per				
prescription, correct concentrations, mixing and administrations,				
appropriate product used				
7.2 Is accurate information provided to the attending veterinary	High	N/A	CoGP 4.3.131, 5.3.85	
surgeon for dosage calculation?				
7.3 Are the fish under consideration being given any other medication,		N/A		
or are they in a withdrawal period for any other medication?				

Point for consideration	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary
7.4 If so, has the prescribing veterinary surgeon been informed of this?	Medium	N/A	CoGP 4.3.132, 5.3.86	
7.5 Are clear instructions for medication, dosage and administration communicated to the staff responsible for treatment?	High	N/A	CoGP 4.3.133, 5.3.87	

Additional actions	Powers	Comments and advice given or action taken if necessary
	Power granted under the Act – section 3 (2) (a)	
·	Power granted under the Act — section 3 (3) (a)	
j. Enforcement Notice. If an enforcement notice has been issued then maintain a copy / duplicate and record detail Guidance on completing the Enforcement Notice	Power granted under the Act – Section 6 (2)	

- [1] Scottish Statutory Instrument The Fish Farming Businesses (Record Keeping) (Scotland) Order 2008
- [2] A Code of Good Practice for Scottish Finfish Aquaculture
- [3] Water temperature to be measured at the half way point of the depth of the facility containing the fish, or as close to as possible. For SW cage sites one reading per count may be s
- [4] Recording requirements:- for C. elongatus all identifiable stages and for L. salmonis mobiles and adult females (with or without egg strings)
- [5] Area refers to management area as specified within Part 3 of the industry CoGP or as redefined appropriately
- [6] For reference Annex 6 of the CoGP provides the detail of the NTS
- [7] FMA = Farm Management Area
- [8] FMS = Farm Management Statement
- [9] FMAg = Farm Management Agreement
- [10] No further action may be required when answering no to this point and yes to 3.18
- [11] Legal recording requirements within the SSI stipulate for Caligus elongatus: mobiles; and for Lepeophtheirus salmonis: non-gravid mobiles and gravid females.
- [12] VMD The Veterinary Medicines Regulations 2013 (SI 2013 No 2033)
- [13] AFSA Aquaculture and Fisheries (Scotland) Act 2007 (as amended)

		-						
Case No:	2021-0394	J		Date of visit:	06/10/202	1		
Site No:	FS1067	1		Inspector:				
Site No.	1 3 1007	ı		mspecion.				
Results Summary	Freq.							
		Database	Insp	Phone	te of Notifica	Writing	Insp	2 nd Insp
Report Summary				1				
Case Type	Date	Insp	2 nd Insp					
SLA			2 insp					
case completion	25/08/2022 24/01/2023							
case completion	24/01/2023							
	+							
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SUMMARY FOR INFORMATION OF SITE OPERATOR

Business No FB0456 Date of Visit 06/10/2021

SITE NO FS1067 SITE NAME Inverawe (East) Etive 2

CASE NO 20210394 INSPECTOR

Case completion report

Recommendations in relation to the above case were made for implementation by 01/12/2022. Following submission of the required documentation, evidence has now been provided to Marine Scotland to demonstrate that the recommendations have been implemented.

This case will now be closed. This site may be subject to further audit and recommendations in the future.

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

Signed: Date: 24/01/2023

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/





SUMMARY FOR INFORMATION OF SITE OPERATOR

Business No FB0456 Date of Visit 06/10/2021

SITE No FS1067 SITE NAME Inverawe (East) Etive 2

Case No 20210394 INSPECTOR

ENHANCED SEA LICE INSPECTION

An enhanced sea lice inspection to ascertain the levels of sea lice and for assessing the measures in place for the prevention, control and reduction of sea lice was conducted in accordance with the Aquaculture and Fisheries (Scotland) Act 2007.

The visit consisted of an inspection of records with regards to sea lice, the stock on site, site procedures with regards to sea lice and the provision of advice.

Records

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.

a) Inspection of sea lice records

The site meets the requirement of current Scottish industry best practice. There were no recommendations made and no further action is required.

b) Inspection of records relating to treatment and control of sea lice

Although the site meets the requirement of current Scottish industry best practice, the sea lice records demonstrated that sea lice levels on site had been significantly above the suggested criteria for treatment despite the management actions undertaken.

It is recommended that the sea lice management strategy be reviewed, taking into account veterinary advice, where necessary, to ensure that an effective strategy is being

implemented that will meet the requirements of the Code of Good Practice for Scottish Finfish Aquaculture (CoGP) and follow the standards associated with A National Treatment Strategy for the Control of Sea Lice on Scottish Salmon Farms, as described in Annex 6 of the CoGP.

c) Inspection of records relating to farm management groups and area management agreements.

The following recommendations are made for improvement.

Records of decisions made by the farm management group in relation to the prevention, control and reduction of sea lice were not available.

It is recommended that to meet the requirements of schedule 1, section 5(c) of the Fish Farming Business (Record Keeping) (Scotland) Order 2008 a record should be kept of any decision made by the area management group relating to the prevention, control and reduction of sealice.

During inspection it was determined that annual review meetings had not been held by the farm management area group with a view to evaluating site performance against set criteria with regards to sea lice management. Quarterly meetings have since been arranged amongst the farm management area group.

It is recommended that in accordance with A Code of Good Practice for Scottish Finfish Aquaculture (CoGP) (Chapter 4 point 3.83) annual review meetings should be convened by the farm management area group to evaluate performance of the farms within the area in regards to the criteria set out in the National Treatment Strategy for the Control of Sea Lice on Scottish Salmon Farms, as described in Annex 6 of the CoGP

The farm management area is not fallowed synchronously on a single year class basis, however a risk assessment was not carried out to determine the risk to other businesses in the area.

It is recommended that in accordance with A Code of Good Practice for Scottish Finfish Aquaculture (CoGP) (Chapter 4, point 3.100) the farm management area should be fallowed synchronously on a single year class basis.

Alternatively, it is recommended that in accordance with A Code of Good Practice for Scottish Finfish Aquaculture (CoGP) (Chapter 4, point 3.101) a documented risk assessment, which considers the risks to the company's own operations and to the operations of other companies operating within the farm management area and any adjacent areas, should be undertaken, to include strategies to be followed for pathogen and parasite control in the absence of fallowing.

d) Inspection of records relating to training and procedures

The site meets the requirement of current Scottish industry best practice. No recommendations made or further action required.

e) Inspection of site and site stock

The site meets the requirement of current Scottish industry best practice. No recommendations made or further action required.

f) Inspection of farm count procedures

R25

An inspection of site staff conducting and recording a sea lice count was carried out. This met the requirements of The Fish Farming Business (Record Keeping) (Scotland) Order 2008 and CoGP. No further recommendations or further action required.

The transfer of data from field counts to records could not be observed due to Covid-19 social distancing requirements.

g) Inspection of treatment administration procedures

Procedures were not inspected as a treatment was not taking place at the time of inspection. However, discussions on procedures with the company correspondent would suggest that the site meets the requirement of current Scottish industry best practice.

Further Action

The recommendations in this report should be implemented by **01/12/2022**. Documentation should be provided as evidence that the recommendations have been implemented. Enforcement action may result if the recommendations are not implemented in the necessary time frame. Records should be sent to Marine Scotland Science's Fish Health Inspectorate (FHI) (contact details are provided below).



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/

Date: 25/08/2022

FHI 059, Version 13	1	ssued by: FHI	Date of issue: 12/05/2020
Case No: 2021-0421			Date of visit: 26/10/2021
Time spent on site:	l hour	Main Inspe	ector:
Site No: FS1339 Business No: FB0578	Site Name: Business Name:	The Aquaponics Garden The Aquaponics Garden Lt	td
Case Types: 1 ECI	2 CNI 3 ALA	4 5	6
Water Temp (°C): 16	Thermometer No:	T146	FHI 045 completed
Observations:	Region: TA	Water type: F	CoGP MA:
Dead/weak/abnormally behaving Clinical signs of disease observed Gross pathology observed? Diagnostic samples taken?	•	Y If yes, see additional in	nformation/clinical score sheet. nformation/clinical score sheet. nformation/clinical score sheet.
UNI/REG only - if unable to carry	y out intended visit detail	reason below:	

Additional Case Information:

No longer holding rtr - koi on site since Nov 2020. Change to authorisation was not sought prior to change although FHI were aware shortly after, covid protocols delayed FHI site visit.

Water quality testing currently being taken daily, weekly when plants are online.

Slight fungus on fins of some rtr during stocking was recorded, within first few weeks it became evident that fish had not coped well with the transfer, gill parasites were evident and respiratory difficulties observed, fish were moribund. This coincided with start of Covid19 Pandemic in March 2020 - communications with FVG were digital through videos and photos. The site manager had resigned so help was sought from the source hatchery (Trossachs), and they helped to euthanize the fish. Mortality records were not kept during this period, all fish that had perished prior to euthanasia were frozen and removed along with euthanized fish for disposal by Trossachs.

Salt treatments mostly conducted as dips - so not treating whole site and affect aquaponics.

Some treatments also conducted in quarantine tank - Costia - chloramine T in quarantine tank 4 days in July during very high temps

The multi cell raceway is split into 3 with bigger fish in one end and smaller fish at the other end - although all fish are from same stocking. Average length - 9" bigger fish - 250g, 5" smaller fish - 34g.

Fish were currently undergoing a salt treatment to the whole tanks as the plant section is currently offline, planting will recommence in Mid Nov. Partial water changes also taking place whilst plants offline. Thought that this additional stress may be causing occurrence of some carp pox, 4 fish were observed with pox like lesions but their behaviour was otherwise normal. Other fish have reportedly recovered well from this lesions following treatments in the past. Mortalities on site very low, therefore no diagnostic sampling was undertaken however owner was informed of our diagnostic service and will get in touch if she has concerns. Owner has struggled to find koi specific veterinary advice but has had a lot of help from koi supplier in Lancashire and companies that provide the treatments, no visits or diagnostic sampling has occurred but health advice received via telephone conversations with suppliers/local vet during pandemic.

With regards to ALAS regulations - in summary site is in a secure building, water is recirculated between fish tanks and most of effluent water goes through wall to plants room. Filtration (drum and bio filter), in fish tank room and any waste water is put directly into mains sewage. There is an overflow of tank for the irrigation system, which is a secure IBC located outside the building. This water is used to water ornamental plants in the garden of the college - advised against best practice. Due to change of business to NCB not required to be classified as open/closed or needing a permit as not covered by ALAS regs.

FHI 059, Version 13			Issu	ed by: FHI			Date of issue:	12/05/2020
Case No:	2021-0421		Site No:	FS1339				
Date of Visit:		26/10/2021]		Inspector(s):			
Registration/Author	risation Deta	ails						
1. Business/site det			ite representa	ative?			Υ	
2. Changes made to	•		,				Υ	
Site Details (includ	le cleaner fie	h for all soct	ions)					
Total No facilities	ic cicarici iis	1	Facilities sto	cked	1	No facilitie	es inspected	
Species	CAR	CAR	r domines ste	<u> </u>		140 Idollitic	inopeoted .	
Age group	MVG	MVG						
No Fish	49	20					1	
Mean Fish Wt	250g	50g					_	
Next Fallow Date (S		none planne	d	Next Input Da	ite (Site)	N/A		
Recent (last 4 wks)		•	<u> </u>	•	Any escapes		visit)?	N
If yes, detail:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				, 00004	(0.1.00 10.01	· ··c···/·	
 Are movement re Are records comp Are health certific Transport Records Are any moveme If yes, is there a sys 	olete and corrected for introdes for introde	ectly entered? ductions (outwood) t by (or on bel	vith GB) availa	able? usiness (not us	•		E	Y Y N/A
Mortality Records							_	
1. Mortality records	available for i	nspection?					г	Y
2. How are mortalities		•			Other (detail)		
If other detail:			removal whe	n sufficient am		/		
3. Mortality records				n cameroni am	iodiit iio apiiit	<i>y</i> o		Υ
4. Recent mortality	•			one in last 4 we	eeks.			
5. Evidence of recei	,	typical mortal						N
If yes, facility nos/no				/reason:			-	
	, ,		, ,					
6. Any other peaks i	n mortality du	ring period ch	ecked?				T	Y
If yes, detail:	RTR - eutha	nized April 20	20 following h	nigh mortalities	with gill paras	sitic infection	n	
7. Have increased (Y
If yes, detail action:		Digital comm	ns with FVG d	lue to covid				
8. Have 'mortality ev	vents' been re	ported to FHI	? If no, enter	details on mort	ality events sl	neet.		N/A

Treatments and Medicines Records	
1. Recent treatments (see comment)?	Y
Chloramine If yes, detail:	
If other, detail: salt flukasol potassium permanganate	
2. Medicines records available for inspection?	Y
3. Are records complete and correctly entered?	Y
4. Are fish in a withdrawal period?	N
5. If yes, what treatment(s)?	
If other, detail:	
6. Are medicines stored appropriately?	Y
Biosecurity Records	
Biosecurity records available for inspection?	Y
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	,
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 dis	ease
is detected been included and how and when 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	r Y
health status, certification if required)?	
6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minimi	Y
transmission of disease been covered (movement of staff, visitors, equipment, live or dead fish etc.)?	se .
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	N
1. Has any animal health surveillance been carried out by, or on behalf of, the business?	N N/A
2. If yes, are results available for inspection?	N/A N/A
3. Any significant results?	IW/A
If yes, detail (if not detailed under recent disease problems).	

FHI 059, Version 13	Issued by: FHI	Date of	f issue: 12/05/2
Case No: 2021-0421	Site	e No: FS1339	
Sea Lice Inspection (Seawater Sites Or	nlv)		
Has the site experienced sea lice proble			
	or equivalent) fallowed synchronously on a s	single vear class basis?	
3. Does the site have access to a range o	f licenced in-feed and bath sea lice medication as well as access to suitable biological and/	ons (including deltamethrin,	and
4. Is there a signed documented farm man Management Area (or equivalent)?	nagement agreement or statement relevant t	o the site and CoGP Farm	
 Are sea lice count records available for Do records adequately reflect the requi 	inspection? (Legal SSI, CoGP Annex 6) red standard specified in the SSI and the Co	GP? (Legal SSI, CoGP Annex 6)	
7. Are sea lice (<i>L. salmonis</i>) record levels records are inspected? (CoGP Annex 6)	below the suggested criteria for treatment in	n the CoGP during the period that	
8. Have average adult female sea lice (<i>L.</i> 2 or above (from w/b 10/6/19) during the p	salmonis) numbers per fish been at a level operiod that records are inspected?	of 3 or above (prior to w/b 10/6/19)) or
If yes, have these been reported to the Fis	sh Health Inspectorate? If no, FHI see comm	ent.	
9. Is C. elongatus infestation at a level when	nich is considered to cause significant welfar	e problems? (CoGP 4.3.81, 5.3.50	0)
· ·	ministered or other actions taken when <i>L. sa. C. elongatus</i> is considered to have welfare in		1)
11. Has any other action been taken (whe	re applicable)?		
· · · · · · · · · · · · · · · · · · ·	tions taken had a significant impact upon the		
	ried out in cooperation between participating		
14. Is there a harvesting strategy for the s sea lice?	ite, where fewer populations or part population	ons are held without treatment for	
15. Is there a site specific written lice man scenarios during the escalation of a sea li	agement procedure with waypoints describing ce infestation?	ng set actions to deal with recogni	ised
16. Do the sea lice levels observed on sto	cks reflect sea lice count data? If no please	detail reasons.	
Containment Inspection			
	mage due to predators in the current or prev	•	N
Are measures in place to mitigate agair	nst the predation experienced on site? (Detai	l below)	Υ
If other, detail below:			
Site indoors in secure building			
· · · · · · · · · · · · · · · · · · ·	experienced on or in the vicinity of the site s	ince the last FHI inspection?	N
If Yes proceed with questions 4 – 9. If No			
4. Have these been reported to Scottish M		07. 5.4.47)	
· · · · · · · · · · · · · · · · · · ·	B forthwith (where they exist)? (CoGP – 4.4	·	7)
o. Have these been reported to the SSPO	and local fisheries trusts forthwith (where th	ey exist)? (COGP = 4.4.37, 5.4.17	
7. Were methods (if any) used to recover	escapees? If yes give detail		
8. If gill nets were deployed was this actio Ministers? (Legal, CoGP – 4.4.38, 5.4.18)	n agreed with local wild fish interests and wa	s permission given by Scottish	
, ,	minimise the risk of further escapes? (Not co	vered in code but could	
be considered under satisfactory mea			
10. Is the site inspected as satisfactory wi	th regards to containment? If no, please deta	ail reason(s)	Υ

Date of issue: 12/05/2020

Case No:	2021-0421			Date of visit:	26/10/2021				
Site No:	FS1339	1	Inspector:						
Results Summary	Freq.	Date of Notification							
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp	
Report Summary									
Case Type	Date	Insp	2 nd Insp						
ECI CNI ALAS	13/01/2023								





SUMMARY FOR INFORMATION OF SITE OPERATOR

Business No FB0578 Date of Visit 26/10/2021

SITE No FS1339 SITE NAME The Aquaponics Garden

Case No 20210421 Inspector

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 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 not kept when the site was initially stocked between March 2020 and May 2020.

The following points were raised with the site representative during the inspection:

The site is only authorised to stock rainbow trout. Koi carp were moved onto site in November 2020 without authorisation; against the conditions of the Aquaculture Production Business authorisation under The Aquatic Animal health Regulations (Scotland) 2009. The operator was unaware that this was against their authorisation and the FHI were made aware of the movement later in November 2020 but the COVID-19 pandemic and related travel restrictions delayed the site inspection.

The site was stocked with rainbow trout in February 2020 and due to health issues, all remaining stock was culled in April 2020. Mortality records were not kept at all during this period and the incidence of high mortality was not reported to the FHI. Mortality records have been kept in a satisfactory manner since the subsequent stocking of koi carp onto site in November 2020.

Following changes to the nature of the business the site will no longer be producing rainbow trout and they have been removed from the registered site details. Furthermore, no fish will be moved off site for ongoing production or for human consumption; therefore the category of the business has been amended from Aquaculture Production Business (APB) to Non Commercial Business (NCB). Due to the historic nature of the non compliances with authorisation conditions,

the improvements made to record keeping since and the change to the business category no further action is required.

In line with good bio-security practice it is recommended that the water in the overflow tank from the irrigation unit should not be used or distributed elsewhere for any other purpose and should be bio-securely disposed of as required in line with the procedures used for waste water discharge from the site.

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.

Inspection under the Alien and Locally Absent Species in Aquaculture (Scotland) Regulations 2015

The site was also inspected to determine if an application for a permit was required under the Alien and Locally Absent Species in Aquaculture (Scotland) Regulations 2015 (ALAS) to farm the non-native species koi carp (*Cyprinus carpio*). Due to changes to the operation of the business, koi carp are not being **farmed for production** therefore do not fall under the scope of the ALAS 2015 regulations.

Should any changes to the nature of the business or the operation of the site be made in future the site may require a permit under the 2015 Regulations, please contact the Fish Health Inspectorate to discuss prior to any changes to operations being implemented.

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

Signed:

Senior 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-

Date: 18/01/2023

charter/