

Case No:	2018-0203	Date of visit:	29/05/2018			
Time spent on site:	3 hours	Main Inspector:	ASM			
Site No:	FS0800	Site Name:	Leinish			
Business No:	FB0440	Business Name:	Grieg Seafood Shetland Ltd			
Case Types:	1 ESC	2 CNA	3	4	5	6
Water Temp (°C):		Thermometer No:	T172	FHI 045 completed		
Observations:	Region:	HI	Water type:	S	CoGP MA:	M-25
Dead/weak/abnormally behaving fish present?	<input type="checkbox"/> N	If yes, see additional information/clinical score sheet.				
Clinical signs of disease observed?	<input type="checkbox"/> N	If yes, see additional information/clinical score sheet.				
Gross pathology observed?	<input type="checkbox"/> N	If yes, see additional information/clinical score sheet.				
Diagnostic samples taken?	<input type="checkbox"/> N					

UNI/REG only - if unable to carry out intended visit detail reason below:

Additional Case Information:

Waste disposed at: Energen Biogas Ltd, Dunnswood Road, Wardpath South Industrial Estate, Cumbernauld, North Lanarkshire, G67 3EN.

Some seals have been an issue since the start of the year. ADD's have recently been installed and numbers attributed to seal damage have fallen.

Pen 1 increased morts due to peroxide treatment in Nov 2017. 13,750 (2.3%) dead in cage 1 only. Cage 3 treated after with no issues. Unsure what caused the mortality event. Visit made by FVG shortly after. Report confirmed very significant gill pathology in some of the samples.

Freshwater treatment on 19/01/18 caused an increase in mortality in cage 6 only. 1,680 fish (0.2%) died. Treatments cancelled on other pens after event. Visit conducted by FVG. Very significant gill pathology confirmed in some samples.

Escape on 03/05/18 (see photos 1-3 in photo tab): Freshwater treatment planned due to AGD levels were on the rise. The fish were being loaded onto the boat when the pipe from dewaterer to well broke at around 12:15 (loading started at 11:00). The pipe that failed was on the deck of the boat. Although staff were supervising the treatment they were on the opposite side of the well boat to the pipe. The loading process was stopped immediately after the brake was noticed. The site manager and deck hand on the well boat noticed at the same time. The pipe was relatively new. After reviewing CCTV footage of the incident it is hard to identify the exact number of fish, probably less than 200. Well boat was Martin Saele. Well boat was at cage 2 at the time of the loading. No gill net deployed. Gill nets have since been purchased since the incident. These are currently being stored at the shore base.

In the process of changing the planning permission for the site to increase the size of the cages and grid and decrease cage numbers (to 8 cages).

Case No: Site No:
 Date of Visit: Inspector(s):

Registration/Authorisation Details

1. Business/site details summary checked by site representative?
 2. Changes made to details?

Site Details

Total No facilities	<input type="text" value="10"/>	Facilities stocked	<input type="text" value="9"/>	No facilities inspected	<input type="text" value="10"/>
Species	<input type="text" value="SAL"/>	<input type="text" value="LUM"/>			
Age group	<input type="text" value="17 SO"/>	<input type="text" value="2017"/>			
No Fish	<input type="text" value="595,000"/>	<input type="text" value="113,193"/>			
Mean Fish Wt	<input type="text" value="1.4kg"/>	<input type="text" value="Mixed"/>			
Next Fallow Date (Site)	<input type="text" value="Spring 2019"/>		Next Input Date (Site)	<input type="text" value="Sept 2019"/>	

Recent (last 4 wks) disease problems? Any escapes (since last visit)?
 If yes, detail:

Movement Records

1. Movement records available for inspection?
 2. Date of last inspection:
 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 available for inspection?
 2. How are mortalities disposed of?
 If other detail:
 3. Mortality records complete and correctly entered?
 4. Recent mortality (last 4 wks):
 5. Evidence of recent increased/atypical mortalities?
 If yes, facility nos/no mortality per facility/no stock per facility/reason:
 6. Any other peaks in mortality during period checked?
 If yes, detail:
 7. Have increased (unexplained) mortalities been reported to vet or FHI?
 If yes, detail action:
 8. Have 'mortality events' been reported to FHI? If no, add MRT case and enter on mortality events sheet.

Treatments and Medicines Records

1. Recent treatments (last 4 wks)?

If yes, detail:

If other, detail:

2. Medicines records available for inspection?

3. Are records complete and correctly entered?

4. Are fish in a withdrawal period?

5. If yes, what treatment(s)?

If other, detail:

6. Are medicines stored appropriately?

Biosecurity Records

1. Biosecurity records available for inspection?

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

3. Has the manner and period in which the APB will notify Scottish Ministers or veterinary professional of any *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 *how* and *when* that will be notified to Scottish Ministers?

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

6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minimise transmission of disease been covered (movement of staff, visitors, equipment, live or dead fish etc.)?

7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals held on site?

8. Have the biosecurity procedures been adequately implemented on site?

If no, detail:

Results of Surveillance

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

Case No: 2018-0203 Site No: FS0800

Date of visit: 29/05/2018 Inspector(s): ASM

Point of compliance	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary
ENHANCED CONTAINMENT INSPECTION (SEAWATER)				
a. Enquiry relating to i) escape incidents and ii) contingency procedures				
1.1. Have escape incidents or events ¹ been experienced on or in the vicinity of the site since the last MSS inspection? If yes answer 1.2-1.8:		Y		
1.2. Have appropriate reports been made to Scottish Government within 24 hours of discovery?	High	Y	AAAH Regs ⁴ 31D,E	
1.3. Have these been reported to the SSPO ² and, where in existence, the local DSFB and fisheries trust?	Medium	Y	CoGP 4.4.37, 5.4.17	Grieg not a member of the SSPO. Local DSFB reportedly contacted.
1.4. Were methods (if any) used to recover escapees? If yes give detail		N		
1.5. Was the decision to attempt to recapture and the method employed agreed with the local DSFB and FT	Low	Y	CoGP 4.4.38, 5.4.18	Discussed but though no fish would be caught.
1.6. Was permission sought from Marine Scotland prior to recapture?	Medium	N/A	CoGP 4.4.38, 5.4.18	
1.7. Were the gill nets deployed in accordance with the permission issued by Marine Scotland?	Low	N/A	CoGP 4.4.38, 5.4.18	
1.8. In light of the escape event, has appropriate action been taken to prevent and minimise the risk of further escapes?	High	Y		Broken pipe replaced. Gill net now on site.
1.9. Is there a site specific contingency plan in response to failures in containment, aimed at preventing escapes and recovering escaped fish?	High	Y	SSI, 2,9	
b(i). Inspection of records relating to equipment, facilities and the site				
General records			CoGP: 4.4.9, 4.4.14, SSI 2,1	
2.1 With regard to each facility, net, screen and mooring at each site, a record should be maintained of:-			Facilities Moorings Nets	
a) The name of the manufacturer	Low	Y	Y	Y
b) Any special adaptations	Low	N/A	Y	N/A
c) The name of the supplier	Low	Y	Y	Y
No adaptations made of facilities or nets. Mooring system deepened to allow for easier access by wellboats				

Point of compliance	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary	
d) The date of purchase	Low	N	Y	Y	No repairs made to facilities
e) Each inspection including					
i) the name of the person conducting the inspection	Low	Y	Y	Y	
ii) the date of each inspection	Medium	Y	Y	Y	
iii) the place of each inspection	Low	Y	Y	N	
iv) the outcome of each inspection	High	Y	Y	Y	
f) the date and result of each repair, equipment test and antifouling treatment carried out	High	N/A	Y	Y	
2.2. In relation to each net a record of:					
i) The mesh size	Medium	Y	SSI, 2,2		
ii) The code which appears on the identification tag	Medium	Y			
iii) The place of use, storage and disposal	Medium	N			Place of use recorded, but not the place of storage and disposal
iv) The depth of water between the bottom of the net and the seabed as measured at the mean low water spring	Low	Y			
2.3. In relation to each facility a record of:					
i) The date of construction	Low	N	SSI, 2,3		
ii) The material used in construction	Low	Y			
iii) Its dimensions	Low	Y			
2.4. In relation to each mooring a record of-			SSI, 2,4		
i) The date of installation	Low	Y			
ii) The design and weight of the anchors	Low	Y			
iii) The length of the mooring ropes or chains	Low	Y			
2.5. A record of any navigation markers deployed at each site at which fish are farmed	Low	Y	SSI, 2,5		
2.6 In respect of sites at which fish are farmed in inland waters ³			SSI, 2,6		
a) The type, method of and date of construction of any flood prevention or flood defence measures in place	Low				
b) The date of and results of any tests conducted on any such measures	Low				
c) The date of any incident where the site was flood	Low				
d) The water course height during any such flood incident	Low				
2.6 A record of-			SSI, 2,7		
a) The date of any severe weather event which caused damage to any facility, net or mooring	Medium	Y	SSI, 2,11 (a)		
b) Any action taken to rectify any such damage	High	Y	SSI, 2,11 (b)		
Pen and mooring systems					

Point of compliance	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary
2.7 Are there documented procedures maintained regarding the selection and installation of pens and moorings?	High	N	CoGP 4.4.8, 4.4.13	Certificate of competence of site staff available for inspection. Nothing to demonstrate evidence of competence of installation personnel
2.8 Can the site demonstrate evidence that the design specification of pens and moorings are suitable for purpose and correctly installed?	High	N	CoGP 4.4.9, 4.4.14	
2.9 Do pen systems meet the manufacturers guidelines?	High	Y	CoGP 4.4.10	
2.10 Are pen systems inspected and approved by suitably qualified / experienced person(s)?	High	Y	CoGP 4.4.11	
2.11 Is there evidence of the competence of personnel involved in the design, installation and maintenance of pen and mooring systems?	High	N	CoGP 4.4.12, 4.4.15	
2.12 Are pen and mooring components inspected with a) a documented SOP b) a documented inspection plan based on a risk assessment	High	Y	CoGP 4.4.16	
2.13 Do all nets used on site meet industry standards?	High	Y	CoGP 4.4.17	Certificate to confirm that nets conform to ISO 1806 standard and that the breaking strain is 154kg-185kg. No data specifying conditions on site.
2.14 Can the site demonstrate an awareness of the minimum fish size in relation to net size	High	Y	CoGP 4.4.19	
2.15 Does the net design, quality and standard of manufacture take into account the conditions that are likely to be experienced on site and include adequate safety margins?	High	N	CoGP 4.4.20	
2.16 Are nets treated with a UV inhibitor?	Low	Y	CoGP 4.4.21	
2.17 Are nets tested at a pre-determined frequency?	High	Y	CoGP 4.4.22	
2.18 Is the method of test procedure based upon the manufacturers advice?	High	Y	CoGP 4.4.22	
2.19 Are frequent net inspections conducted to look for damage?	High	Y	CoGP 4.4.23	
2.20 Are net inspection records maintained?	High	Y	CoGP 4.4.23	
2.21 Is the system by which nets are attached to the pen and weighted inspected frequently?	High	Y	CoGP 4.4.24	
2.22 Where damage to nets and/or associated fittings has occurred, or the potential for damage exists, has remedial action been taken?	High	Y	CoGP 4.4.25	
b(ii). Inspection of records relating to training				
3.1 Are training programmes and plans relevant to the various onsite activities documented?	High	Y	CoGP 7.1.8	

Point of compliance	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary
3.2 Is there a satisfactory record of all training and qualifications for each person working at the site in relation to any boat operations? (This excludes well boat operations)	High	Y	SSI 2,6,a	
3.5 With respect to any transfer of or handling of fish is there a record of all training of each person working on site in relation to containment and prevention of escape of fish, and recovery of escaped fish?	High	Y	SSI 2,7,a	

b(iii). Inspection of records relating to procedures and risk assessments

4.1 Are procedures which could increase the risk of fish escaping considered to be carefully planned and supervised to minimise risk?	High	Y	CoGP 4.4.29, 5.4.12	
4.2 Before procedures are conducted on site, are the following in place:			CoGP 4.4.30, 5.4.13 SSI 2,7, b , SSI 2, 8, c	
a) a documented risk assessments	High	Y		
b) standard operating procedures	High	Y		
c) contingency plan	High	Y		
4.3 In relation to any boat operations at each site at which fish are farmed is there a record of				
-The type and size of each boat used for operations on the site	Low	Y	SSI 2,6,b	
- The type and size of any propeller guard fitted to each boat used on the site	Low	Y	SSI 2,6,c	
4.4 Does the site suffer from regular or heavy predation?		Y		
4.5 Are there records of site specific risk assessments ascertaining the risk of predator attack?	Medium	Y	CoGP 4.4.26	
4.6 Are there risk assessments undertaken on a pre-determined frequency?	Low	Y	CoGP 4.4.26	
4.7 A record of any anti-predator measures undertaken at each site at which fish are farmed including:			SSI, 2,8,a	
The type and location of each net, fence and scarer deployed	Medium	Y		
- The use of lethal means by any person involved in operations on the site	Low	Y	SSI, 2,8,b	
4.8 Where predator nets are deployed is the advice of Annex 7 considered?	Low	Y	CoGP 4.4.27	

c. Inspection of site and site equipment

Point of compliance	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary
5.1 Are there any obvious containment issues on the site?	High	N	CoGP 4.4.18	
5.2 Is the net mesh size considered to be capable of containing all fish sizes present on site?	High	Y		

Point of compliance	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary
5.3 Do nets carry numbered ID tags? Look at a percentage of nets on site - Does the net location meet the inventory?	Low	Y	SSI 2,2 ii	Net ID tags checked on site match ID tag record at shorebase.
	Low	Y		
5.4 Are nets stored away from direct sunlight?	Low	Y	CoGP 4.4.21	Nets are wrapped to protect from sunlight
5.6 Are appropriate measures in place to mitigate predation on site? (Provide detail if necessary)		Y		
5.7 Are boat operations conducted in such a manner which prevents damage to nets and pens?	High	Y	CoGP 4.4.28	
5.8 Is there a requirement for navigation markers to be deployed?	Low	Y	MSA ⁵ 2010 P4, S21	
5.9 If yes, has this been done in accordance with the necessary requirements?	Low	Y	MS Marine licence	
5.10 If Yes to 5.8 is there a record of any navigation markers deployed?	Low	Y	SSI 2,5	

d. Inspection of site specific procedures

6.1 Are pen nets examined for holes, tears or damage prior to and during the stocking, moving or crowding of fish?	High	Y	CoGP 4.4.31	
6.2 If helicopter transfer of fish is conducted are receiving pen(s) properly prepared:-			CoGP 4.4.32	
a) nets should be secure	High	N/A		
b) pens should be marked with buoys clearly visible from the air	High	N/A		
c) radio contact between farm staff and helicopter crew should be maintained or where this is not possible, pens receiving fish should be manned	High	N/A	CoGP 4.4.33	
Consideration should be given to all other site procedures being undertaken during the visit with respect to containment and the risk of fish farm escapes				

Point of compliance	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary
Additional actions	Powers			Comments and advice given or action taken if necessary
e) 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 5 (3) (a)			
h) 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)			

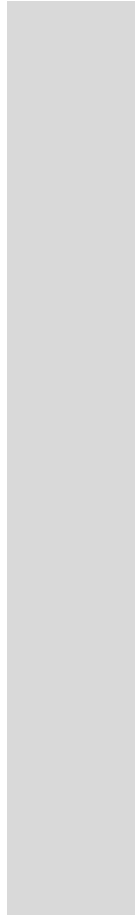
1 An 'escape event' can be defined as any circumstances on or in the vicinity of a fish farm which are believed to have caused an escape, or which may have given rise to a significant risk of an escape of fish.

2 FHI interpretation – Informing the SSPO is only a requirement where the site belongs to an Authorised Production Business which is signed up to the CoGP.

3 being waters which do not form part of the sea or any creek, bay or estuary or of any river as far as far as the tide flows

4 The Aquatic Animal Health (Scotland) Regulations 2009 (as amended)

5 The Marine Scotland Act 2010



[REDACTED]
Grieg Seafood Shetland Ltd
Gremista
Lerwick
Shetland
ZE1 OPX
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FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0440	DATE OF VISIT	29/05/2018
SITE No	FS0800	SITE NAME	Leinish
INSPECTOR	Andy Mayes	CASE No	20180203

The site was inspected following notification of an escape of 200 Atlantic salmon on 03/05/18.

An enhanced containment inspection was conducted and a report will be issued separately.

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.

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 not been reported to the Fish Health Inspectorate. I would like to remind you of the industry agreement in relation to mortality reporting as detailed in A Code of Good Practice for Scottish Finfish Aquaculture.

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

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Signed:



Fish Health Inspector

Date: 05/06/2018

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Marine Scotland website at www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter

R10

Marine Laboratory, 375 Victoria Road, Aberdeen, AB11 9DB
Tel - 0131 244 3498 Fax - 01224 295620 Email - ms.fishhealth@gov.scot
Website - www.gov.scot/Topics/marine/science

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FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0440	DATE OF VISIT	29/05/2018
SITE No	FS0800	SITE NAME	Leinish
INSPECTOR	[REDACTED]	CASE No	20180203

Case completion report

Recommendations in relation to the above case were made for implementation by 19/11/18. 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:

[REDACTED]

Date: 14/02/2019

Fish Health Inspector

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Marine Scotland website at www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter



Photo 1: Split pipe in situ



Photo 2: Pipe intact



Photo 3: Split pipe