FHI 059, Version 13		Issued by: FHI	Date of issue: 12/05/2020
Case No: 2023-0354			Date of visit: 08/08/2023
Time spent on site: 7.	5 Hours	Main Inspect	or:
Site No: FS0226 Business No: FB0119	Site Name: Business Name:	Inchmore Mowi Scotland Ltd	
Case Types: 1 DIA 2	2 REP 3	4 5	6
Water Temp (°C): 14	Thermometer No:	Site	FHI 045 completed N/A
Observations:	Region: HI	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 info	rmation/clinical score sheet. rmation/clinical score sheet. rmation/clinical score sheet.
UNI/REG only - if unable to carry	out intended visit deta		
		N/a	

#### **Additional Case Information:**

Inchmore is made up of a Hatchery unit, a fry unit, and an ongrowing unit. The hatchery unit consists of 4 facilities (A, B, C & D) and the fry unit has two sub units (A&B). Between the early hours of Friday 04 to Sunday 06 August 2023 (wk 31) Fry Unit B sustained a significant mortality of 1,132,880 fish (69.67%).

The cause of this mortality is currently unknown, the fish in this unit were transferred over from hatchery units C & D the previous week. There was an initial transfer related mortality of 420,040 fish (16.85%) immediately post transfer into fry unit B, however the mortality reduced and recovered soon after the initial transfer. Following this transfer (week 30), Fry unit B received its first routine treatment of formalin and cress at the beginning of week 31 (31 July - 02 August 2023) which saw a reduction in mortality from 13,027 on Monday 31 July to 3,944 on Thursday 03 August 2023 in the unit. The same batch of formalin and cress were also used to treat other units within Inchmore which did not sustain any mortality. Following the mortality event in week 31, the current stock left in Fry unit B have recovered well and mortality has now reduced to normal levels. PCR and Histology samples were taken from fish in Fry Unit B on Friday 04 August 2023, along with water samples by MOWI's fish health team, results of which are still pending.

Upon the physical inspection of the remaining stock in Fry unit B, fish were observed shoaling well and responding actively to the movement of the fish health inspector and the site manager whilst walking around the tanks. A few lethargic / moribund fish were observed around the mortality filter in each tank. Tank 3 and 13 in Fry unit B sustained the highest count for mortality during the mortality event in week 31 of the tanks still remaining that contains stock, so fish were removed from these tanks for diagnostic sampling.

Inchmore's ongrowing unit is made up of two smolt sub units (A & B). Another significant mortality event occurred between week 28 to week 30 within smolt unit B, which is stocked with a mix of Q3 Stofnfisker and Aquagen fish. The mortality event peaked between weeks 29 and 30 which occurred immediately post vaccination. Mortality in this unit rose from 3.89% in week 29 to 8.49% in week 30. It is thought that this mortality may have been due to some form of compromisation from high losses which occurred previously in the production cycle at incubation. In week 31 mortality in this unit reduced to 0.42%, all Aquagen tanks received a post vaccination treatment of formalin and bronopol following the mortality the previous week, fish now appear to be doing well again.

From the physical inspection of smolt unit B, fish were observed shoaling well and responding positively to routine feeding regimes. The water quality appeared slightly dull and murky which was limiting to visibility, this was due to a recent clean of the unit's biofilters. A few lethargic/moribund fish were observed around the tank's mortality filters, several fish with deformities were also observed during the inspection of this unit. Fish were removed for diagnostic sampling from tanks 5 and 8 as these tanks were most heavily impacted by mortality during the recent event.

Mortalities amounting to anything less than one tonne are incinerated onsite, any excess mortality is removed by BR solutions as whole fish waste.

Stocking details as of 08/08/2023:

Smolt Unit A: 2,077,800 2023 Q4 AquaGen SAL @ 27.88g, 9 tanks

Smolt Unit B: 1,633,626 2023 Q3 AquaGen & STOFN SAL @ 67.08g, 9 tanks

Fry Unit A: 1,515,155 2024 Q2 AquaGen & STOFN SAL @ 4.13g, 15 tanks

Fry Unit B: 492,172 2024 Q2 STOFN SAL @ 0.38g, 15 tanks Hatchery A + B: 4,075,366 2024 STOFN SAL @0.1g (OVA)

Hatchery C + D: Fallow.

Site thermometer used for biosecurity.

FHI 059, Version 13			Issue	ed by: FHI			Date of issue	e: 12/05/2020
Case No:	2023-0354		Site No:	FS0226				
Date of Visit:		08/08/2023	3		Inspector(s):			
Registration/Autho	risation Deta	ails						
1. Business/site deta			site representa	tive?			Υ	
2. Changes made to	•	·	·				N	
Site Details (includ	o cloanor fie	h for all soci	tions)					
Total No facilities	e cleaner his	49	Facilities sto	cked	34	No facilitie	es inspected	49
Species	SAL	SAL	SAL	SAL	SAL (OVA)	140 Idollide	inopeoted	
Age group	2023 Q3	2023 Q4		2024 Q2 (2)	2024 Q2			
No Fish	1,633,626	2,077,800	1,515,155	492,172	4,075,366			
Mean Fish Wt	67.08g	27.88g	4.13g	0.38g	0.1g			
Next Fallow Date (S		N/A	ii.iog	Next Input Da		Jan 2024		
Recent (last 4 wks)	•			•	Any escapes		visit)?	N
If yes, detail:	See addition				,	(	/	
<ul> <li>4. Are movement red</li> <li>5. Are records comp</li> <li>6. Are health certification</li> <li>Transport Records</li> <li>1. Are any movement</li> <li>If yes, is there a system</li> </ul>	elete and corre ates for introd nts carried ou	ectly entered' luctions (outv	? vith GB) availa half) of the bu	siness (not us	_			Y
Mortality Records								
1. Mortality records a	available for in	nspection?						Y
2. How are mortalities disposed of?  Other (detail)								
If other detail:	Whole fish -							
3. Mortality records of	complete and	correctly ent						Y
4. Recent mortality (	last 4 wks):			180,285 (10.70 ek 28 (7,177 0	6%), Week 30 .09%).	(596,627 7	7.52%), Week	29 (74,391
5. Evidence of recer	nt increased/a	typical morta	lities?					Y
If yes, facility nos/no	mortality per	facility/no sto	ock per facility/	reason:			•	
See additional info								
6. Any other peaks in	n mortality du	ring period cl	necked?					N
If yes, detail:								
7. Have increased (u	ınexplained) ı	mortalities be	en reported to	vet or FHI?				N/A
If yes, detail action:	antal been		10.16	data ila	(a.1).			V
8. Have 'mortality ev	ents been re	ported to FHI	r it no. enter d	jetalis on mor	tality events sr	ieet.		Y

Treatments and Medicines Records	
1. Recent treatments (see comment)?	Y
If yes, detail: Formalin	
If other, detail: Cress	
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)? Formalin	
If other, detail: Cress	
6. Are medicines stored appropriately?	Y
Biosecurity Records	
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 <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 (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	
Has any animal health surveillance been carried out by, or on behalf of, the business?	N
2. If yes, are results available for inspection?	
3. Any significant results?	
If yes, detail (if not detailed under recent disease problems).	
ii yoo, adaan (ii not adaanda anaan 1000nt alooado problemo).	
Records checked between: 18/04/23 - 08/08/23	

FHI 059, Version 13		Issued by: FHI			Date of	of issue	: 12/05/2020
Case Number:	2023-0354		Site No:	FS0226		Insp:	
Date of Visit	08/08/2023		No of m	ovements/s	supp./dest.		Score
Live fish movements			0	1-5	6-10	>10	
Movements on (from out	Frequency of m	novements on from equivalent MS	C	5	10	14	10
with GB) of susceptible species		novements on from equivalent zone or	C	9	18	26	0
•	Number of supp	ocluding third country	0			14	5
Movements off	Frequency of m			3		10	10
wovernerits on	Number of dest		0			10	3
Exposure via water		Site contacts	0	1-5	6-10		
Water contacts with other farms (holding species	Farm is protect disinfection or b	ed (secure water supply through porehole)	C				0
susceptible to same diseases)		or in a coastal zone with category I or within 1 tidal excursion	1	2	4		
		or in a coastal zone with category III or within 1 tidal excursion	1	3	6		
		or in a coastal zone with category V or within 1 tidal excursion	1	4	8		
Management practices			None	Secure	Unsecure		
Water contacts with processors	Any processing	plant discharging into adjacent waters	C	1	2		0
On farm processing within the rules of the directive	No on farm pro	cessing	C				0
	Processing own	n fish (re-cycling risk)	1				
	Processing fish	from MS of equivalent status	2				
	Processing fish equivalent statu	from zone or compartment of us	4				
	Processing fish	from Category III farm	8				
	Processing fish	from Category V farm	10				
Disposal of fish and fish by-	Site's own wast	te only processed.	C	1			0
products	Common proce	sses with other farms	3				
	Collection point	for waste from other farms	5				
Use of unpasteurised feeds	No feeding of u	npasteurised feed	C	1			0
	Feeding unpas	teurised feed	5	1			
Biosecurity		Number of sites	1	2 or 3	≥ 4		
Contacts with other sites	Sites operating	from single shorebase	C	1	2		0
	Sites sharing st	aff and equipment	C	1	2		0
Disinfection of equipment	Yes		С				0
between sites, use of footbaths etc	No		1	<u> </u>			
CoGP/Regulator				_			
Practices in accordance with regulator or industry	Yes		C				0
code of practice	No		3				
Platform access to cages	Yes			1			
alioini access to eages	No		2	-			0
	1			1			
					Total		28
					Rank		

	Case no:	2023-03	354	Site No:		FS0226	i		Date of		08/	08/2023	08/0
	Priority samples:	VI		ВА		PA		MG	Samplir	ig. HI		]	
	Time sampling starts/ends:	16:4	5:00	19:1	0:00		Inspect	or:		1	VMD N	0.	0
	Environmental conditions:	1	Indoors	2		3		4		5		]	
	Summary samples	HIST	Y	ВА	Y	MG	Y	VI	Y	PA	Y	Total Sa	amples
A	dd Fish/Pools - click												
	Pool/Fish No	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	F1	F3
	Fish nos	1-2	3-4	5-6	7-8	9-10	17-19	26-30	37-40	47-50	57-60	1	3
	Pool Group												
	Species	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL		
	Average weight	65g	65g	65g	65g	65g	0.38g	0.38g	0.38g	0.38g	0.38g	65g	65g
	Sex	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Water Type	FW	FW	FW	FW	FW	FW	FW	FW	FW	FW	FW	FW
		_	_	_		_	_		_		_	_	
		(FS0226)	, , , ,	(FS0226)	(FS0226)	(FS0226)	(FS0226)	(FS0226)	26	(FS0226)	(FS0226)	26)	(FS0226)
		302	[ 8	302	302	302	302	302	302	302	[ 502	302	[ 502
		F.	E	(FS	(FS	(F	(FS	(FS	(FS	(F)	E	F.	[ E
100		ā	<u> </u>			ē			<u>e</u>	ē		ā	<u>ē</u>
Details		m		mo	mo	OW	mo	mo	mo	m		mo	<u>ا</u>
		Inchmore	Inchmore (FS0226)	Inchmore	Inchmore	Inchmore	Inchmore	Inchmore	Inchmore (FS0226)	Inchmore	Inchmore	Inchmore (FS0226)	Inchmore
Stock	Stock Origin Facility No	2	2		8	8		3	13	<u>⊆</u> 13	<u>⊆</u> 13	2	2
U,	i domy 110	_		9	0	U	J	9	13	13	13		_

# 08/2023 Additional Sample Information:

Virology samples pooled due to size of fish. Histology samples from Fry Unit taken as whole fish, there should be three fish in each pot.

Total Tests assigned 6

5         7         9         11         12         13         14         15         16         20         21         22         23         24         25         31           65g         65g         65g         0.38g	F5		F7	F9	F11	F12	F13	F14	F15	F16	F20	F21	F22	F23	F24	F25	F31
Inchmore (FS0226)	5		7	9	11	12	13	14	15	16	20	21	22	23	24	25	31
Inchmore (FS0226)																	
Inchmore (FS0226)																	
Inchmore (FS0226)   A   Inch	65g		65g	65g	0.38g	0.38g	0.38g	0.38g	0.38g	0.38g	0.38g	0.38g	0.38g	0.38g	0.38g	0.38g	0.38g
Inchmore (FS0226)	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Inchmore (F Inchmo	FW		FW	FW	FW	FW	FW	FW	FW	FW	FW	FW	FW	FW	FW	FW	FW
		Inchmore	Inchmore (FS02	Inchmore (FS02	Inchmore (F	Inchmore (F	Inchmore (FS02	Inchmore (FS02	Inchmore (F	Inchmore (F	Inchmore	Inchmore (F	Inchmore (FS02	Inchmore	Inchmore (FS02	Inchmore (FS02	Inchmore

FHI 059, Version 13 Issued by: FHI Date of issue: 12/05/2020 Method of killing: Case no: FS0226 2023-0354 Site No: Inspector(s): Sheet Relevant: Y 08/08/2023 Date of visit: S for strong presence: M for medium presence: W for weak presence F1 - F1|F11 - F60 Fish Number Time sampled after death (if > 45 minutes) External Signs Behaviour Moribund W W W W Lethargic Hanging vertical Spiralling Flashing Loss of equilibrium Body Dark Distended abdomen Anorexic Scale Oedema Opercula Shortened Flared Haemorrhaging **Throat** Ventrum Base of fins Elsewhere Eyes Exophthalmic Enophthalmic (sunken) Cataract Haemorrhagic Gills Zoned Necrotic Lesions Flank Elsewhere Vent Inflamed Trailing faeces Estimate numbers Lice Load Internal Signs **Ascites** Clear **Bloody** Oedema In tissues Heart Pale/anaemic Granulomas Deformed Liver Petechial haem Gross haem Tissue breakdown Enlarged Colour number(s) Granulomas Lesions Petechial haem Pyloric caeca Tubules mauve Lack of fat Spleen **Enlarged** Granulomas Gut No food present Yellow pseudo-faeces External haem Internal haem

Body wall

Kidney

General

Swim bladder

Haemorrhaging Haemorrhaging

Fluid filled

Swollen
Grey
Granular
Liquefied
Parasites present

**Anaemia** 

Case no: 2023-0354

Date of visit: 08/08/2023

Date of visit:	08/08/2023					
S for strong presen	ce: <b>M</b> for medium presence: <b>W</b> for w					
Fish Number	oc. III for mediam presence. II for w					
	er death (if > 45 minutes)					
External Signs	r death (ii > 40 iiiiidtes)					
Behaviour	Moribund					
	Lethargic					
	Hanging vertical					
	Spiralling					
	Flashing					
	Loss of equilibrium					
Body	Dark					
	Distended abdomen					
	Anorexic					
-	Scale Oedema					
Opercula	Shortened					
l la ausa a unh a aire a	Flared					
Haemorrhaging	Throat Ventrum					
	Base of fins					
	Elsewhere					
Eyes	Exophthalmic					
,	Enophthalmic (sunken)					
	Cataract					
	Haemorrhagic					
Gills	Pale					
	Zoned					
	Necrotic					
Lesions	Flank					
	Elsewhere					
Vent	Inflamed					
	Trailing faeces					
Lice Load	Estimate numbers					
Internal Signs						
Ascites	Clear					
Addition	Bloody					
Oedema	In tissues					
Heart	Pale/anaemic					
	Granulomas					
	Deformed					
Liver	Petechial haem					
	Gross haem					
	Tissue breakdown					
	Enlarged					
	Colour number(s)					
	Granulomas Lesions					
Pyloric caeca	Petechial haem					
yioric caeca	Tubules mauve					
	Lack of fat					
Spleen	Enlarged					
	Granulomas					
Gut	No food present					
	Yellow pseudo-faeces					
	External haem					
	Internal haem					
Body wall	Haemorrhaging					
Swim bladder	Haemorrhaging					
	Fluid filled					
Kidney	Swollen					
	Grey					
	Granular					
Camaral	Liquefied					
General	Parasites present					
	Anaemia					

FHI 059, Version 13	Issued by: FHI	Date of issue: 12/0
Additional comments:		
Fish removed for sampling were held al	live in buckets whilst sampling was conducted, pri	or to saamping each pooled
group of fish they were anaesthetised, a	allowing for all fish to be sampled within 45 minute	s of death.

Date of issue: 12/05/2020

Site No: FS0226

Case No: 2023-0354

Nature of non-compliance:
Action taken (FHI):
Non-compliance relevant to (delete): VirologyMolGen/Bacteriology/Histology/Parasitology

Case No:	2023-0354			Date of visit:	08/08/2023			
Site No:	FS0226	_ ¬		Inspector:				
ono rro.	1 00220	_		торсою.				
Results Summary	Freq.				te of Notifica			
		Database	Insp	Phone	Insp	Writing	Insp	2 <sup>nd</sup> Insp
MG_IPN	1/10	16/08/2023	B	16/08/2023		07/11/2023		
MG_SAV	1/10	16/08/2023	3	16/08/2023		07/11/2023		
GS	0/10	16/08/2023	3	16/08/2023		07/11/2023		
AREO	4/15	16/08/2023		16/08/2023		07/11/2023		
GPAT	0/10	16/08/2023		16/08/2023		07/11/2023		
VHS	0/10	16/08/2023		16/08/2023		07/11/2023		
PSFL	2/15	16/08/2023		16/08/2023		07/11/2023		
IHNP	0/10	16/08/2023		16/08/2023		07/11/2023		
SKIN	0/10	16/08/2023		16/08/2023		07/11/2023		
	1							
	+							
	_							
Report Summary		1	1	7				
Case Type	Date	Insp	2 <sup>nd</sup> Insp					
DIA	25/10/2023		Z msp					
DIA	25/10/2023							
טוע	20/01/2020							
		-						
1								

# AMENDED FISH HEALTH INSPECTORATE VISIT REPORT

#### SUMMARY FOR INFORMATION OF SITE OPERATOR

<b>BUSINESS NO</b>	FB0119	<b>DATE OF VISIT</b>	08/08/2023
SITE NO	FS0226	SITE NAME	Inchmore
CASE NO	20230354	INSPECTOR	

This report replaces the fish health report R09 issued on 06/10/2023 by \_\_\_\_\_\_. The previous report should be discarded as an ISA test was not conducted. For virology, samples tested negative for infectious haematopoietic necrosis virus (IHNV), salmonid alphavirus (SAV) and viral haemorrhagic septicemia virus (VHSV).

## **Section 1: Summary**

The above site was inspected following reports of increased mortality by the farm operator. During the physical inspection of all tanks, sixty fish (ten pooled samples) were removed for diagnostic sampling.

Histopathological examination revealed relatively low proliferative gill pathology with minor degenerative changes and inflammation in some fish. Internal findings were slight and non-specific, with no evidence of specific disease. A peritonitis was observed in the larger fish, potentially associated with vaccine administration. No significant pathology was observed.

Aeromonas sp. with characteristics which best fit Aeromonas sobria and Pseudomonas fluorescens were identified. The level and mixed purity of growth observed would not suggest these bacteria would be implicated in morbidity of the population. The significance of these bacteria was greater in some individual fish, see bacteriological section for more details.

Samples tested positive by QPCR for Infectious pancreatic necrosis virus (IPNV) and salmonid alphavirus (SAV). However histopathological observations were not consistent with IPN or SAV pathology.

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

#### **Section 2: Case Detail**

#### **Observations**

The site was inspected following reports of two separate mass mortality events.

Between the 04 and 06 August 2023 (week 31) the sites fry unit (B), sustained a significant mortality of 69.67% (1,132,880 fish). The cause of mortality at the time was unknown. Upon inspection of the stock within fry unit (B), fish were observed shoaling well and responding actively to the movement of personnel walking around the tanks, at the time of inspection mortality levels on site within this unit had returned to more normal levels. During the physical inspection of the site, some weak swimmers displaying signs of lethargy were observed residing within the mortality filters, fifty of these fish were removed for sampling.

No obvious external or internal signs of disease were observed during the sampling process. R09

Between weeks 28 and 30 another significant mortality was reported at Inchmore, this event occurred within the site's smolt unit (B). The mortality event peaked between weeks 29 and 30 where mortality in this unit rose from 3.89% in week 29 to 8.49% in week 30. From the physical inspection of smolt unit (B), fish were observed shoaling well and responding positively to routine feeding regimes. The water quality appeared slightly dull and murky which was limiting to visibility, this was due to a recent clean of the unit's biofilters. A few lethargic fish were observed around the tank's mortality filters in tanks 2, 5 and 8. Ten of these fish were removed for diagnostic sampling.

Upon the external examination of these fish from smolt unit (B), F1 and F3 had shortened opercula and the eyes of F3 were exophthalmic. No obvious gross pathology was observed in any of the fish sampled.

#### Samples

Samples were collected from 60 fish according to the table below:

Fish number	Pool number	Facility number	Species	Stage	Origin
F1 – F2	P1	2	Atlantic Salmon	Q3 65g	Inchmore (FS0226)
F3 – F4	P2	2	Atlantic Salmon	Q3 65g	Inchmore (FS0226)
F5 – F6	P3	5	Atlantic Salmon	Q3 65g	Inchmore (FS0226)
F7 – F8	P4	8	Atlantic Salmon	Q3 65g	Inchmore (FS0226)
F9 –10	P5	8	Atlantic Salmon	Q3 65g	Inchmore (FS0226)
F11-F20	P6	3	Atlantic Salmon	Q4 0.38g	Inchmore (FS0226)
F21-F30	P7	3	Atlantic Salmon	Q4 0.38g	Inchmore (FS0226)
F31-F40	P8	13	Atlantic Salmon	Q4 0.38g	Inchmore (FS0226)
F41-F50	P9	13	Atlantic Salmon	Q4 0.38g	Inchmore (FS0226)
F51-F60	P10	13	Atlantic Salmon	Q4 0.38g	Inchmore (FS0226)

#### Results

**Bacteriology:** Kidney and spleen material from P1 – P10 was inoculated onto appropriate media for the isolation of bacteria.

The following bacteria were isolated:

- Aeromonas sp. F7, F11, F20, F31 and F51 (Kidney).
- Pseudomonas fluorescens F20 (Kidney), F3, F21 and F42 (Spleen).

A third bacterium was isolated from plates taken from kidney and spleen material from F51. This bacterium was not fully identified, however, it did not match the characteristics of any known fish pathogen and is likely to be of an environmental origin.

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

Infectious pancreatic necrosis (IPNV)

Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
P1-2, 4-10	-	-	-	-	NEGATIVE
P3	15.2	35.81	35.61	36.14	POSITIVE

Salmonid alphavirus (SAV)

Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
P1-4, 6-10	-	-	-	-	NEGATIVE
P5	15.2	35.81	35.61	36.14	POSITIVE

The samples tested negative for infectious haematopoietic necrosis virus (IHNV), salmonid alphavirus (SAV) and viral haemorrhagic septicemia virus (VHSV).

**Parasitology:** Fins were collected to determine the presence of *Gyrodactylus salaris* using light microscopy.

No *G. salaris* parasites were detected in the samples examined.

**Histology:** Tissue samples of gill, skin and skeletal muscle, heart, pyloric caeca, pancreas, hind gut, liver, spleen and kidney were taken from P1 – P10. The tissue samples were fixed in 10% neutral buffered formalin.

Histopathological examination revealed the following:

**Gill:** Lamellar hyperplasia, mild, multifocal (F1, F4), mainly at the tips (F1) and some lamellar necrosis (F5).

**Skin & Muscle:** Within the normal range.

Heart: Myocarditis, minor, multifocal (F1). Epicarditis (F3). F3, F5: No atrium in section.

**Gut and pyloric caeca:** Peritonitis (F2, F3, F4, F5).

**Pancreas:** Within the normal range.

**Liver:** Mild capsulitis (F1), cuffing, mild, diffuse, hepatitis, focal, mild (5), hepatocellular vacuolation (macrovesicles) (F1, F2, F3, F4).

**Kidney:** Presence of hyaline droplets (F1-F4), some renal tubule dilation (F4).

R09

**Spleen:** Necrosis, multifocal (F3), peritonitis (F1), capsulitis (F2, F3).

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

Signed:

Fish Health Inspector

Date: 25/01/2024

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Scottish Government website at <u>Fish Health Inspectorate Service Charter - gov.scot</u> (www.gov.scot)



# FISH HEALTH INSPECTORATE VISIT REPORT

#### SUMMARY FOR INFORMATION OF SITE OPERATOR

 BUSINESS NO
 FB0119
 DATE OF VISIT
 08/08/2023

 SITE NO
 FS0226
 SITE NAME
 Inchmore

 CASE NO
 20230354
 INSPECTOR

**Section 1: Summary** 

The above site was inspected following reports of increased mortality by the farm operator. During the physical inspection of all tanks, sixty fish (ten pooled samples) were removed for diagnostic sampling.

Histopathological examination revealed relatively low proliferative gill pathology with minor degenerative changes and inflammation in some fish. Internal findings were slight and non-specific, with no evidence of specific disease. A peritonitis was observed in the larger fish, potentially associated with vaccine administration. No significant pathology was observed.

Aeromonas sp. with characteristics which best fit Aeromonas sobria and Pseudomonas fluorescens were identified. The level and mixed purity of growth observed would not suggest these bacteria would be implicated in morbidity of the population. The significance of these bacteria was greater in some individual fish, see bacteriological section for more details.

Samples tested positive by QPCR for Infectious pancreatic necrosis virus (IPNV) and salmonid alphavirus (SAV). However histopathological observations were not consistent with IPN or SAV pathology.

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

## **Section 2: Case Detail**

## **Observations**

The site was inspected following reports of two separate mass mortality events.

Between the 04 and 06 August 2023 (week 31) the sites fry unit (B), sustained a significant mortality of 69.67% (1,132,880 fish). The cause of mortality at the time was unknown. Upon inspection of the stock within fry unit (B), fish were observed shoaling well and responding actively to the movement of personnel walking around the tanks, at the time of inspection mortality levels on site within this unit had returned to more normal levels. During the physical inspection of the site, some weak swimmers displaying signs of lethargy were observed residing within the mortality filters, fifty of these fish were removed for sampling.

No obvious external or internal signs of disease were observed during the sampling process.

Between weeks 28 and 30 another significant mortality was reported at Inchmore, this event

occurred within the site's smolt unit (B). The mortality event peaked between weeks 29 and 30 where mortality in this unit rose from 3.89% in week 29 to 8.49% in week 30. From the physical inspection of smolt unit (B), fish were observed shoaling well and responding positively to routine feeding regimes. The water quality appeared slightly dull and murky which was limiting to visibility, this was due to a recent clean of the unit's biofilters. A few lethargic fish were observed around the tank's mortality filters in tanks 2, 5 and 8. Ten of these fish were removed for diagnostic sampling.

Upon the external examination of these fish from smolt unit (B), F1 and F3 had shortened opercula and the eyes of F3 were exophthalmic. No obvious gross pathology was observed in any of the fish sampled.

## **Samples**

Samples were collected from 60 fish according to the table below:

Fish number	Pool number	Facility number	Species	Stage	Origin
F1 – F2	P1	2	Atlantic Salmon	Q3 65g	Inchmore (FS0226)
F3 – F4	P2	2	Atlantic Salmon	Q3 65g	Inchmore (FS0226)
F5 – F6	P3	5	Atlantic Salmon	Q3 65g	Inchmore (FS0226)
F7 – F8	P4	8	Atlantic Salmon	Q3 65g	Inchmore (FS0226)
F9 –10	P5	8	Atlantic Salmon	Q3 65g	Inchmore (FS0226)
F11-F20	P6	3	Atlantic Salmon	Q4 0.38g	Inchmore (FS0226)
F21-F30	P7	3	Atlantic Salmon	Q4 0.38g	Inchmore (FS0226)
F31-F40	P8	13	Atlantic Salmon	Q4 0.38g	Inchmore (FS0226)
F41-F50	P9	13	Atlantic Salmon	Q4 0.38g	Inchmore (FS0226)
F51-F60	P10	13	Atlantic Salmon	Q4 0.38g	Inchmore (FS0226)

#### Results

**Bacteriology:** Kidney and spleen material from P1 – P10 was inoculated onto appropriate media for the isolation of bacteria.

The following bacteria were isolated:

- Aeromonas sp. F7, F11, F20, F31 and F51 (Kidney).
- Pseudomonas fluorescens F20 (Kidney), F3, F21 and F42 (Spleen).

A third bacterium was isolated from plates taken from kidney and spleen material from F51. This bacterium was not fully identified, however, it did not match the characteristics of any known fish pathogen and is likely to be of an environmental origin.

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

Infectious pancreatic necrosis (IPNV)

Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
P1-2, 4-10	-	-	-	-	NEGATIVE
Р3	15.2	35.81	35.61	36.14	POSITIVE

Salmonid alphavirus (SAV)

Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
P1-4, 6-10	-	-	-	-	NEGATIVE
P5	15.2	35.81	35.61	36.14	POSITIVE

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

**Parasitology:** Fins were collected to determine the presence of *Gyrodactylus salaris* using light microscopy.

No *G. salaris* parasites were detected in the samples examined.

**Histology:** Tissue samples of gill, skin and skeletal muscle, heart, pyloric caeca, pancreas, hind gut, liver, spleen and kidney were taken from P1 – P10. The tissue samples were fixed in 10% neutral buffered formalin.

Histopathological examination revealed the following:

**Gill:** Lamellar hyperplasia, mild, multifocal (F1, F4), mainly at the tips (F1) and some lamellar necrosis (F5).

**Skin & Muscle:** Within the normal range.

**Heart:** Myocarditis, minor, multifocal (F1). Epicarditis (F3). F3, F5: No atrium in section.

Gut and pyloric caeca: Peritonitis (F2, F3, F4, F5).

**Pancreas:** Within the normal range.

**Liver:** Mild capsulitis (F1), cuffing, mild, diffuse, hepatitis, focal, mild (5), hepatocellular vacuolation (macrovesicles) (F1, F2, F3, F4).

Kidney: Presence of hyaline droplets (F1-F4), some renal tubule dilation (F4).

**Spleen:** Necrosis, multifocal (F3), peritonitis (F1), capsulitis (F2, F3).

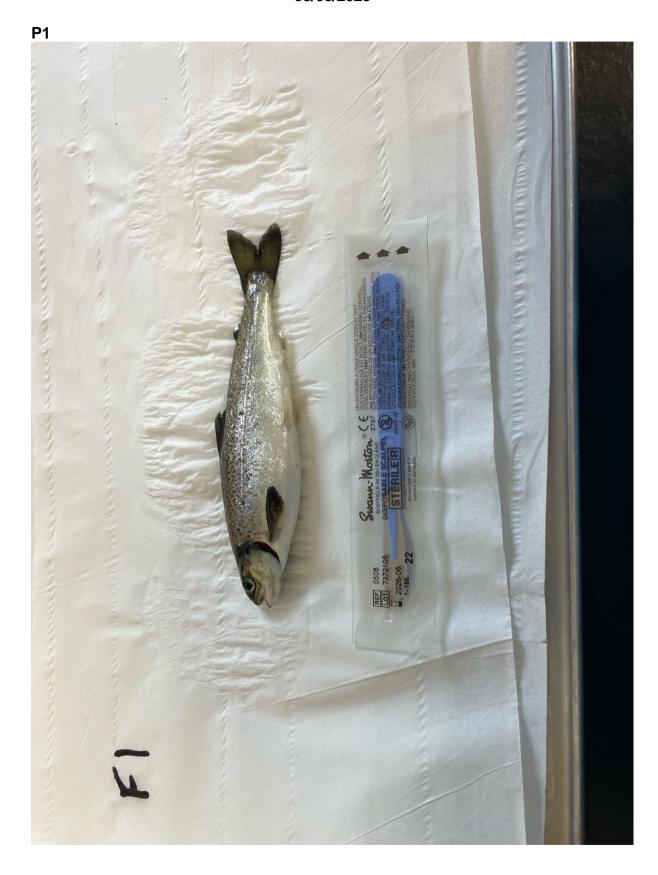
Please contact myself or the duty inspector should you require any further information or have any queries regarding this report.

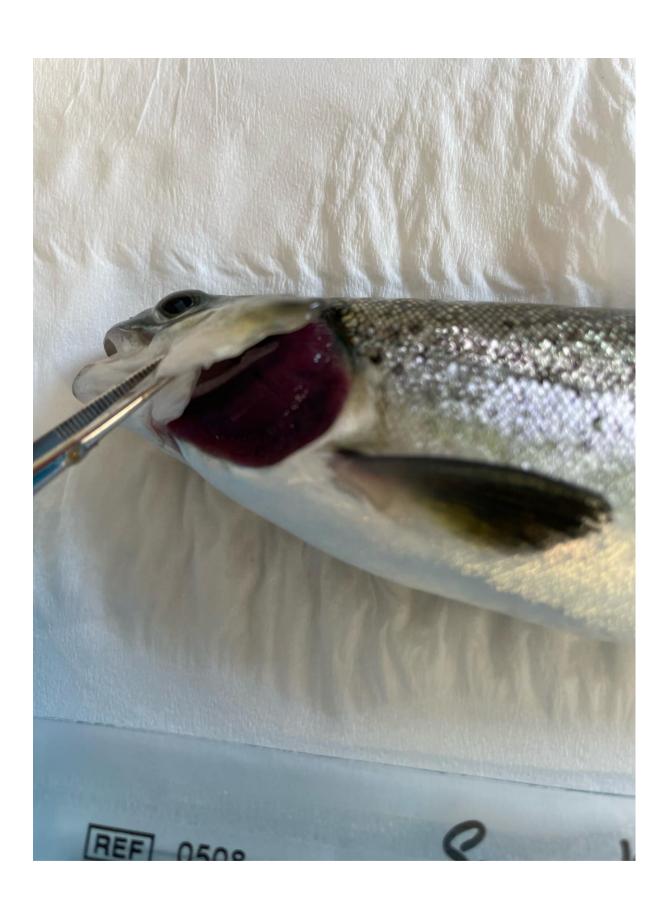


Date: 06/10/2023

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Scottish Government website at Fish Health Inspectorate Service Charter - gov.scot (www.gov.scot)

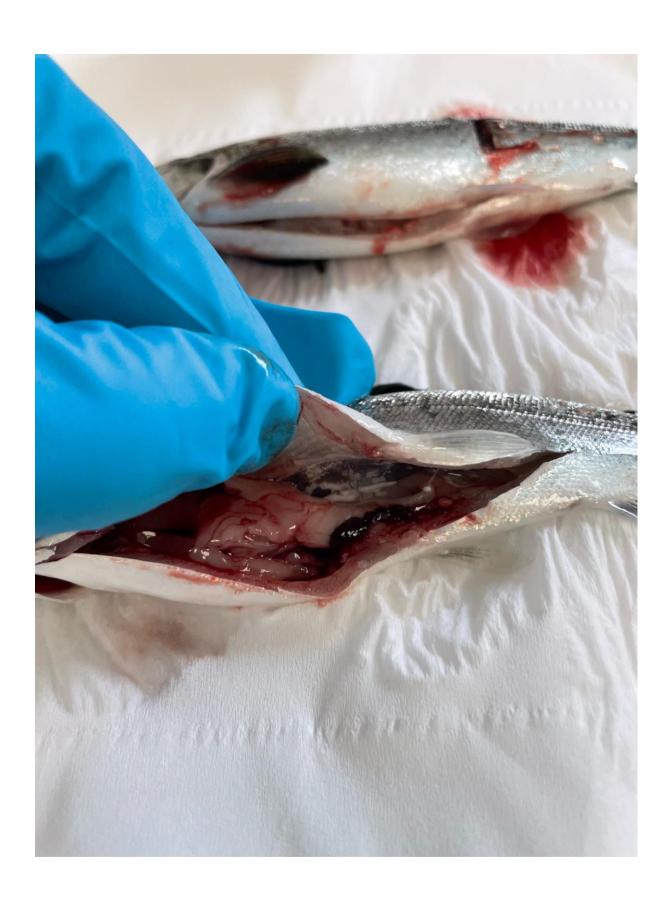
# Inchmore (FS0226) AFH-2023-0354 08/08/2023









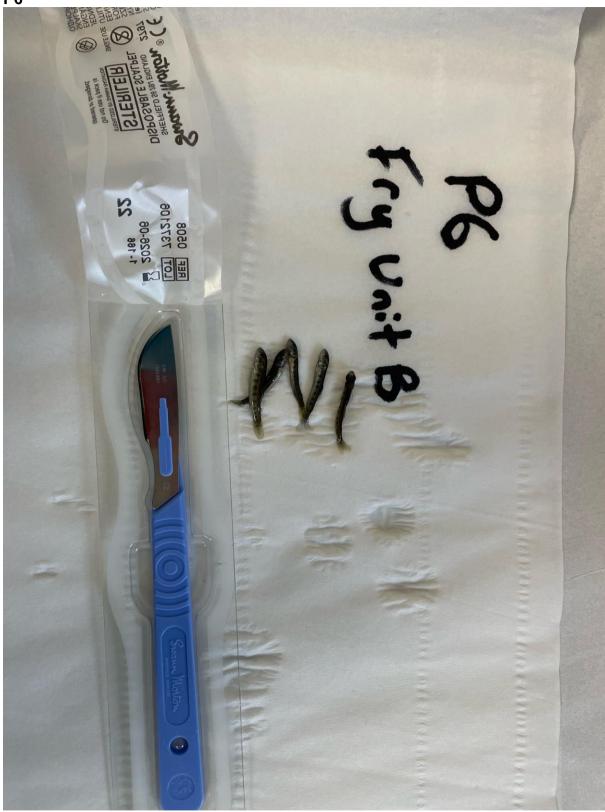


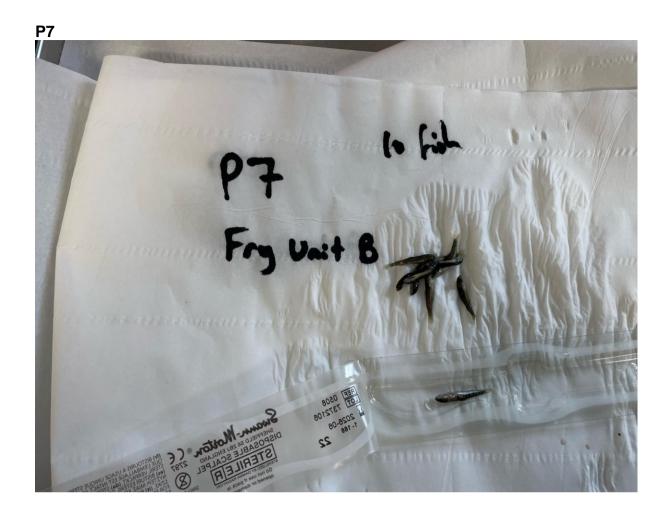


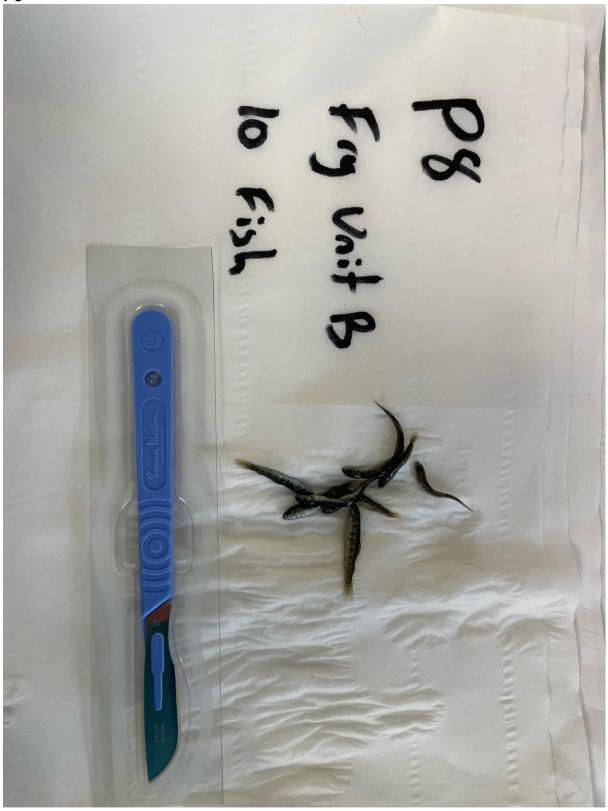


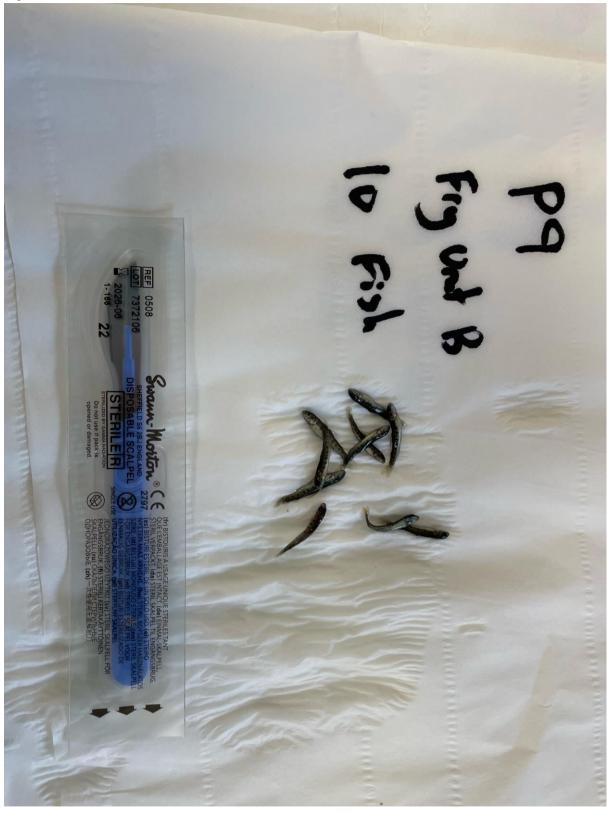




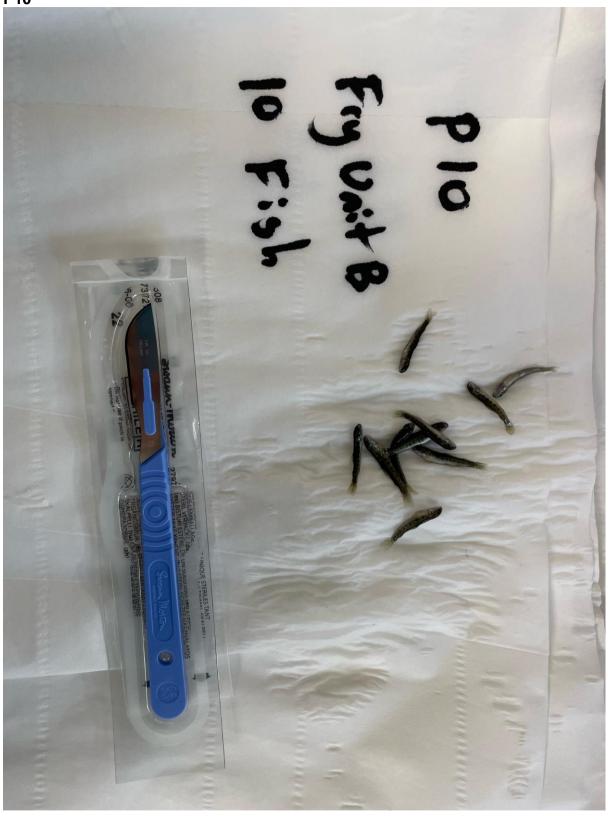












FHI 059, Version 13		Issued by: FHI	Date of issue: 12/05/2020
Case No: 2023-0394			Date of visit: 30/08/2023
Time spent on site:	mins	Main	Inspector:
Site No: SS0757 Business No: SB0372	Site Name: Business Name:	Slyde (Aith Voe) Shetland Mussels Ltd	
Case Types: 1 ECI 2	2 3	4 5	6
Water Temp (°C): 13.1	Thermometer No:	T306	FHI 045 completed
Observations:	Region: SH	Water type: S	CoGP MA:
Dead/weak/abnormally behaving of Clinical signs of disease observed Gross pathology observed? Diagnostic samples taken?	·	N If yes, see addition	nal information/clinical score sheet. nal information/clinical score sheet. nal information/clinical score sheet.
UNI/REG only - if unable to carry	out intended visit deta	il reason below:	

Some seasquirt fouling, but overall site is well maintained and there is good growth on the lines.

FHI 059, Version 13	<b>;</b>		Iss	ued by: FHI			Date of issu	ue: 12/05/2020
Case No:	2023-0394		Site No:	SS075	7			
Date of Visit:		30/08/202	23		Inspector(s	):		
Registration/Author	orisation De	tails						
1. Business/site det	ails summar	y checked by	site represent	tative?			Υ	1
2. Changes made to	o details?						Υ	]
Site Details (includ	de cleaner fi	ish for all sec	ctions)					
Total No facilities		5	Facilities st	ocked	5	No faciliti	es inspected	5
Species	MED	MED						
Age group	2022	2020						
No Fish	115 T	50 T						
Mean Fish Wt	20mm	65mm						
Next Fallow Date (S		No plans		Next Input D		Natural s		
Recent (last 4 wks)	disease prol	blems?		1	N Any escape	es (since last	t visit)?	N
<ol> <li>Date of last inspects.</li> <li>Are records complete.</li> <li>Are movement respects.</li> <li>Are records complete.</li> <li>Are health certificant records.</li> </ol> Transport Records. <ol> <li>Are any movement respects.</li> <li>Are any movements.</li> <li>If yes, is there a system.</li> </ol>	plete and collected available and collected and collected for introduced as the collected a	ble for dead	ish and wasted? twith GB) availehalf) of the b	lable? usiness (not us	•		19/07/2022	N/A N/A N/A
Mortality Records								
1. Mortality records	available for	inspection?						N/A
<ol><li>How are mortaliti</li></ol>	es disposed	of?			Other (deta	il)		
If other detail:		s fall to seabe						
3. Mortality records		nd correctly er						N/A
4. Recent mortality		, , , , , , ,	No observe	d mortality				NI/A
5. Evidence of receive		• •		,				N/A
If yes, facility nos/no	o mortality pe	er facility/no s	tock per facility	y/reason:				
6. Any other peaks If yes, detail:	in mortality o	luring period (	checked?					N/A
7. Have increased (	unexplained	) mortalities b	een reported	to vet or FHI?				N/A
If yes, detail action:								
8. Have 'mortality ev	vents' been r	eported to FF	II? If no, enter	details on mo	rtality events :	sheet.		N/A

Treatments and Medicines Records	
1. Recent treatments (see comment)?	
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	
Biosecurity records available for inspection?	Y
2. Has the manner and frequency of mortality removal, recording and safe disposal been considered?	Y
3. Has the manner and period in which the APB will notify Scottish Ministers or veterinary professional of any	
increased (unexplained) mortality at the site been included?	Y
4. Has the action that will be taken in the event that the presence or suspicion of the presence of a listed disease	
is detected been included and <i>how</i> and <i>when</i> that will be notified to Scottish Ministers?	Y
5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or higher	Y
health status, certification if required)?	
	V
6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minimise	T
transmission of disease been covered (movement of staff, visitors, equipment, live or dead fish etc.)?	V
7. Is documentation available regarding the measures in place to maintain the physical containment of	T
aquaculture animals held on site?	V
8. Have the biosecurity procedures been adequately implemented on site?  If no, detail:	T
ii no, detaii.	
Results of Surveillance	
	N/A
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: 19/07/2022 - 30/08/2023	

FHI 059, Version 13 Issued by: FHI Date of issue: 12/05/2020 Case Number: 2023-0394 SS0757 Site No: Date of Visit 30/08/2023 Inspector: Number of Susceptible species on site If no susceptible species present = LOW risk Yes If susceptible species present, score for each pathogen No Susceptible to Bonamia ostrea (OED) 0 25 Susceptible to Marteilia refringens (OED, MED) 0 3 3 Susceptible to OsHV (CGI) 0 3 1 2-5 >6 Sites within a tidal excursion Site contacts Number of sites holding susceptible species within a tidal 10 excursion 0 2 10 0 1-2 >3 Live shellfish movements Frequency of movements on from equivalent MS 0 5 10 Movements on Frequency of movements on from equivalent zone or compartment including third country 0 10 20 Number of suppliers 0 5 10 Movements off Frequency of movements off within MSS Management 0 2 1 0 Frequency of movements off outwith MSS Management 0 6 6 Areas 3 0 Number of destinations 3 6 **Secure Unsecure** Management (effluent (no effluent practices None treatment) treatment) Water contacts with Depuration of stock from own sites within MSS depuration facilities management area 0 1 2 0 Depuration of stock from other businesses sites within 0 2 6 MSS management area Depuration of stock from sites outwith MSS management 0 4 8 area Number of sites 1 2 or 3 > 4 **Biosecurity** Contacts with other Sites operating from single shorebase 0

sites

Sites sharing staff and equipment

Disinfection of equipment between sites, use of footbaths etc

5

No

0

Yes

0

Total Risk

Case No:	2023-0394			Date of visit:	30/08/2023	В		
Site No:	SS0757	1		Inspector:				
Results Summary	Freq.	Databasa	II		te of Notifica		Ilaaa	nd
		Database	Insp	Phone	Insp	Writing	Insp	2 <sup>nd</sup> Insp
							-	
			-				-	
							-	
Report Summary				1				
Case Type	Date	Insp	2 <sup>nd</sup> Insp					
ECI	14/02/2024							



### SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NO SB0372 DATE OF VISIT 30/08/2023
SITE NO SS0757 SITE NAME Slyde (Aith Voe)
CASE NO 20230394 INSPECTOR

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

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

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

#### Records

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

The information required for the public record of aquaculture production businesses regarding this site was verified and where necessary updated. The following records were also inspected to ensure that the conditions of authorisation for your Aquaculture Production Business (APB) are being met:

Aquaculture animal and aquaculture animal product movement records were inspected and appeared to be adequately maintained.

No mortality had been observed on site since the last inspection by Marine Directorate.

No animal health surveillance had been carried out on behalf of the business and/or Marine Directorate since the last Marine Directorate inspection.

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

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



Date: 14/02/2024

R14

# Fish Health Inspector

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Scottish Government website at <u>Fish Health Inspectorate Service Charter - gov.scot</u> (www.gov.scot)

FHI 059, Version 13		Issued by: FHI	Date of	of issue: 12/05/2020
Case No: 2023-0395			Date of visit:	30/08/2023
Time spent on site:	) minutes	Mai	n Inspector:	
Site No: SS0650 Business No: SB0372	Site Name: Business Name:	Seggi Bight Shetland Mussels Lt	d	
Case Types: 1 ECI 2	2 3	4 5	6	]
Water Temp (°C): 13.1	Thermometer No:		FHI 045 comp	oleted
Observations:	Region: SH	Water type:	S CoGP MA	:
Dead/weak/abnormally behaving	fish present?	N If yes, see addit	tional information/clinical	score sheet.
Clinical signs of disease observed	<b>1?</b>		tional information/clinical	
Gross pathology observed?		N If yes, see addit	tional information/clinical	score sheet.
Diagnostic samples taken?		N		
UNI/REG only - if unable to carry	out intended visit deta	ail reason below:		

No issues on site, good growth on lines

FHI 059, Version 13	3		Iss	ued by: FHI			Date of issue	: 12/05/2020
Case No:	2023-0395	5	Site No:	SS0650	0			
Date of Visit:		30/08/202	23		Inspector(s)			
Registration/Auth	orisation De	etails						
1. Business/site de	tails summa	ry checked by	site represent	tative?			Υ	
2. Changes made t	o details?						Υ	
Site Details (inclu	de cleaner f	ish for all sec	ctions)					
Total No facilities		7	Facilities st	ocked	7	No facilitie	es inspected	7
Species	MED	MED						
Age group	2022	2021						
No Fish	37 T	120 T						
Mean Fish Wt	20mm	55mm						
Next Fallow Date (	Site)	No plans		Next Input D	ate (Site)	Natural sp	oatfall	
Recent (last 4 wks)	disease pro	blems?		1	Any escapes	s (since last	visit)?	N
If yes, detail:								
Movement Record	ls							
Movement record		for inspection	?				Г	Y
2. Date of last inspe		ioi inopootion	•				19/07/2022	
3. Are records com		rrectly entered	d?				10/01/2022	Y
4. Are movement re	•	•		?				N/A
5. Are records com								N/A
6. Are health certific	•	•		lable?				N/A
Transport Record	e							
1. Are any movement		out by (or on b	nehalf) of the h	usiness (not us	sing a STR)?		Г	
If yes, is there a sys		• `	•	,	,			
Mortality Records							_	
Mortality records		r inspection?					Ī	N/A
2. How are mortalit	ies disposed	of?			Other (detail			
If other detail:	Dead shel	ls fall to seabe	ed/ Dead shell:	s found with me	eat sent to lan	dfill		
<ol><li>Mortality records</li></ol>			ntered?					N/A
4. Recent mortality			No observe	d mortality				
<ol><li>Evidence of rece</li></ol>	nt increased	I/atypical mort	alities?					N/A
If yes, facility nos/n	o mortality p	er facility/no s	tock per facilit	y/reason:				
6. Any other peaks	in mortality	during period	checked?					N/A
If yes, detail:								
7. Have increased	•	l) mortalities b	een reported	to vet or FHI?				N/A
If yes, detail action:								
8. Have 'mortality e	vents' been	reported to Fh	II? If no, enter	details on moi	rtality events s	heet.		N/A

Treatments and Medicines Records	
1. Recent treatments (see comment)?	
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	
Biosecurity records available for inspection?	Y
2. Has the manner and frequency of mortality removal, recording and safe disposal been considered?	Y
3. Has the manner and period in which the APB will notify Scottish Ministers or veterinary professional of any	
increased (unexplained) mortality at the site been included?	Y
4. Has the action that will be taken in the event that the presence or suspicion of the presence of a listed disease	
is detected been included and 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	Y
health status, certification if required)?	
6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minimise	Y
transmission of disease been covered (movement of staff, visitors, equipment, live or dead fish etc.)?	
7. Is documentation available regarding the measures in place to maintain the physical containment of	Y
aquaculture animals held on site?	
8. Have the biosecurity procedures been adequately implemented on site?	Y
If no, detail:	
Describe of Occurs Western	
Results of Surveillance	NI/A
1. Has any animal health surveillance been carried out by, or on behalf of, the business?	N/A
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: 19/07/2022 - 30/08/2023	

FHI 059, Version 13	Issued by: FHI			Date	of issue: 12
Case Number:	2023-0395 Site No:	SS065	0		
Date of Visit	30/08/2023 Inspector:			1	
Number of Susceptib	ole species on site				
-	ies present = <u>LOW</u> risk				
If susceptible species	present, score for each pathogen		No	Yes	
	Susceptible to Bonamia ostrea (OED)		0	25	
	Susceptible to Marteilia refringens (OED, MED)		0	3	3
	Susceptible to OsHV (CGI)		0	3	
Sites within a tidal e	xcursion	1	2-5	>6	
Site contacts	Number of sites holding susceptible species within a tidal				
	excursion	0	2	10	10
			4.0		
Live shellfish moven		0	1-2	>3	
Movements on	Frequency of movements on from equivalent MS	0	5	10	0
	Frequency of movements on from equivalent zone or compartment including third country	0	10	20	l I
	Number of suppliers	0	10 5	10	$\vdash$
	indifficer of suppliers			10	$\underline{}$
Movements off	Frequency of movements off within MSS Management Areas	0	1	2	2
	Frequency of movements off outwith MSS Management Areas	0	3	6	3
	Number of destinations	0	3	6	3
Management practices		None	Secure (effluent treatment)	Unsecure (no effluent treatment)	
Water contacts with depuration facilities	Depuration of stock from own sites within MSS management area	0	1	2	0
	Depuration of stock from other businesses sites within MSS management area	0	2	6	
	Depuration of stock from sites outwith MSS management area	0	4	8	
Biosecurity	Number of sites	1	2 or 3	≥ 4	
Contacts with other	Sites operating from single shorebase	0	1	2	2
sites	Sites sharing staff and equipment	0	1	5	5
			Yes	No	
	Disinfection of equipment between sites, use of footbath	s etc	0	2	2
			Total Risk		30 HIGH

Case No:	2023-0395			Date of visit:	30/08/2023	В		
Site No:	SS0650	1		Inspector:				
Results Summary	Freq.	_	1.		te of Notifica			
		Database	Insp	Phone	Insp	Writing	Insp	2 <sup>nd</sup> Insp
			-				-	
			-				-	
Report Summary								
Case Type	Date	Insp	2 <sup>nd</sup> Insp					
ECI	15/02/2024							
	1							



## SUMMARY FOR INFORMATION OF SITE OPERATOR

 Business No
 SB0372
 Date of Visit
 30/08/2023

 Site No
 SS0650
 Site Name
 Seggi Bight

 Case No
 20230395
 Inspector

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

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

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

#### Records

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

The information required for the public record of aquaculture production businesses regarding this site was verified and where necessary updated. The following records were also inspected to ensure that the conditions of authorisation for your Aquaculture Production Business (APB) are being met:

Aquaculture animal and aquaculture animal product movement records were inspected and appeared to be adequately maintained.

No mortality had been observed on site since the last inspection by Marine Directorate.

No animal health surveillance had been carried out on behalf of the business and/or Marine Directorate since the last Marine Directorate inspection.

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

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

Signed:

Date: 15/02/2024

R14

# Fish Health Inspector

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Scottish Government website at Fish Health Inspectorate Service Charter - gov.scot (www.gov.scot)

FHI 059, Version 13	Is	sued by: FHI	Date of issue: 12/05/2020
Case No: 2023-0396			Date of visit: 30/08/2023
Time spent on site:	minutes	Main Insp	ector:
Site No: SS0904 Business No: SB0372	Site Name: Business Name:	Skewart Holm (Linga) Shetland Mussels Ltd	
Case Types: 1 ECI 2	3	4 5	6
Water Temp (°C): 13.1	Thermometer No:	T306	FHI 045 completed
Observations:	Region: SH	Water type: S	CoGP MA:
Dead/weak/abnormally behaving	•		nformation/clinical score sheet.
Clinical signs of disease observed	l?		nformation/clinical score sheet.
Gross pathology observed?		N If yes, see additional i	nformation/clinical score sheet.
Diagnostic samples taken?		N	
UNI/REG only - if unable to carry	out intended visit detail ı	eason below:	

No issues on site, good growth on lines.

FHI 059, Version 13	3		Iss	ued by: FHI			Date of issue	: 12/05/2020
Case No:	2023-0396	3	Site No:	SS090	4			
Date of Visit:		30/08/202	23		Inspector(s)	:		
Registration/Author	orisation De	etails						
1. Business/site det	tails summa	ry checked by	site represent	tative?			Υ	
2. Changes made t	o details?						Υ	
Site Details (includ	de cleaner f	ish for all sec	ctions)					
Total No facilities		7	Facilities st	ocked	7	No faciliti	es inspected	7
Species	MED	MED						
Age group	2022	2021						
No Fish	25 T	250 T						
Mean Fish Wt	20mm	55mm						
Next Fallow Date (S	Site)	No plans		Next Input D	ate (Site)	Natural s	patfall	
Recent (last 4 wks)	disease pro	blems?			N Any escape	s (since last	t visit)?	N
If yes, detail:								
Movement Record	ls							
Movement record		for inspection	?				Г	Y
2. Date of last inspe		ioi inopostion	•				19/07/2022	
3. Are records com		rrectly entered	d?				10/01/2022	Y
4. Are movement re	•	•		?			-	N/A
5. Are records com							-	N/A
6. Are health certific	•	•		lable?				N/A
Transport Record	e							
1. Are any movement		out by (or on b	ehalf) of the h	usiness (not u	sing a STR)?		Г	
If yes, is there a sys		• `	•	,	•			
Mortality Records								
Mortality records		r inspection?					Г	N/A
2. How are mortaliti	ies disposed	l of?			Other (detail	il)		
If other detail:	Dead shel	ls fall to seabe	ed/ Dead shell:	s found with m	eat sent to lan	ndfill		
<ol><li>Mortality records</li></ol>			ntered?					N/A
4. Recent mortality			No observe	d mortality				
<ol><li>Evidence of rece</li></ol>		• •						N/A
If yes, facility nos/no	o mortality p	er facility/no s	tock per facilit	y/reason:				
6. Any other peaks	in mortality	during period	checked?					N/A
If yes, detail:								
7. Have increased (	•	d) mortalities b	een reported	to vet or FHI?				N/A
If yes, detail action:								
8. Have 'mortality e	vents' been	reported to Fh	II? If no, enter	details on mo	rtality events s	sheet.		N/A

Treatments and Medicines Records	
1. Recent treatments (see comment)?	
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	N/
1. Biosecurity records available for inspection?	Y
2. Has the manner and frequency of mortality removal, recording and safe disposal been considered?	T
3. Has the manner and period in which the APB will notify Scottish Ministers or veterinary professional of any	V
increased (unexplained) mortality at the site been included?	T
4. Has the action that will be taken in the event that the presence or suspicion of the presence of a listed disease	
is detected been included and <i>how</i> and <i>when</i> that will be notified to Scottish Ministers?	Y
5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or higher	Y
health status, certification if required)?	
6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minimise	Y
transmission of disease been covered (movement of staff, visitors, equipment, live or dead fish etc.)?	
7. Is documentation available regarding the measures in place to maintain the physical containment of	Y
aquaculture animals held on site?	
8. Have the biosecurity procedures been adequately implemented on site?	Y
If no, detail:	•
Results of Surveillance	
1. Has any animal health surveillance been carried out by, or on behalf of, the business?	N/A
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: 19/07/2022 - 30/08/2023	

Date of Visit   30/08/2023   Inspector:	Management		Nen-	Secure (effluent	Unsecure (no effluent	
Date of Visit  30/08/2023 Inspector:  Number of Susceptible species on site  If no susceptible species present = LOW risk If susceptible species present, score for each pathogen  Susceptible to Bonamia ostrea (OED)  Susceptible to Marteilia refringens (OED, MED)  Susceptible to OsHV (CGI)  Sites within a tidal excursion  1 2-5 >6  Site contacts  Number of sites holding susceptible species within a tidal excursion  O 1-2 >3  Movements on  Frequency of movements on from equivalent MS  Frequency of movements on from equivalent zone or compartment including third country  Number of suppliers  Movements off  Frequency of movements off within MSS Management  Areas  O 1 2  Frequency of movements off outwith MSS Management  Areas  O 3 6 3		Number of destinations	0	3	6	3
Date of Visit    30/08/2023   Inspector:						
Date of Visit    30/08/2023   Inspector:	Movements off		0	1	2	2
Date of Visit    30/08/2023   Inspector:		Number of suppliers	0	5	10	
Date of Visit    30/08/2023   Inspector:			0	10	20	
Date of Visit    30/08/2023   Inspector:	Movements on	Frequency of movements on from equivalent MS	0	5	10	0
Date of Visit    30/08/2023   Inspector:	Live shellfish mover	ments	0	1-2	>3	
Date of Visit  30/08/2023  Inspector:  Number of Susceptible species on site  If no susceptible species present = LOW risk  If susceptible species present, score for each pathogen  Susceptible to Bonamia ostrea (OED)  Susceptible to Marteilia refringens (OED, MED)  Susceptible to OsHV (CGI)  O 3  3	Site contacts	• • •		2	10	10
Date of Visit  30/08/2023  Inspector:  Number of Susceptible species on site  If no susceptible species present = LOW risk  If susceptible species present, score for each pathogen  Susceptible to Bonamia ostrea (OED)  Susceptible to Marteilia refringens (OED, MED)  0 3 3	Sites within a tidal e	xcursion	1	2-5	>6	
Date of Visit  30/08/2023  Inspector:  Number of Susceptible species on site  If no susceptible species present = LOW risk  If susceptible species present, score for each pathogen  No Yes  Susceptible to Bonamia ostrea (OED)  0 25		Susceptible to OsHV (CGI)		0	3	
Date of Visit  30/08/2023  Inspector:  Number of Susceptible species on site  If no susceptible species present = LOW risk  If susceptible species present, score for each pathogen  No Yes		Susceptible to Marteilia refringens (OED, MED)		0	3	3
Date of Visit  30/08/2023  Inspector:  Number of Susceptible species on site  If no susceptible species present = LOW risk		Susceptible to Bonamia ostrea (OED)		0	25	
Date of Visit 30/08/2023 Inspector:	If no susceptible spec	cies present = <u>LOW</u> risk		No	Yes	
Case Number: 2023-0396 Site No: SS0904		<u> </u>				
	Case Number:	2023-0396 Site No:	SS090	4		

Management practices		None	Secure (effluent treatment)	Unsecure (no effluent treatment)	
Water contacts with depuration facilities	Depuration of stock from own sites within MSS management area	0	1	2	0
	Depuration of stock from other businesses sites within MSS management area	0	2	6	
	Depuration of stock from sites outwith MSS management area	0	4	8	
Biosecurity	Number of sites	1	2 or 3	≥ 4	
Contacts with other	Sites operating from single shorebase	0	1	2	2
sites	Sites sharing staff and equipment	0	1	5	5
			Yes	No	
	Disinfection of equipment between sites, use of footbath	ns etc	0	2	2
			Total		30

Total	30
Risk	HIGH

Case No:	2023-0396			Date of visit:	30/08/2023	В					
Site No:	SS0904	Inspector:									
Results Summary	Freq.	Database	Insp	Date of Notification  Phone Insp Writing Insp 2 <sup>nd</sup> Insp							
		Dalabase	шър	FIIOHE	шър	vviitiig	шър	2 <sup>nd</sup> Insp			
			-				-				
							=				
			-				-				
							=				
				1							
Report Summary Case Type	Date	Inch	and Ire are								
ECI	15/02/2024	Insp	2 <sup>nd</sup> Insp								



## SUMMARY FOR INFORMATION OF SITE OPERATOR

Business No SB0372 Date of Visit 30/08/2023

SITE NO SS0904 SITE NAME Skewart Holm (Linga)

CASE NO 20230396 INSPECTOR

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

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

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

#### Records

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

The information required for the public record of aquaculture production businesses regarding this site was verified and where necessary updated. The following records were also inspected to ensure that the conditions of authorisation for your Aquaculture Production Business (APB) are being met:

Aquaculture animal and aquaculture animal product movement records were inspected and appeared to be adequately maintained.

No mortality had been observed on site since the last inspection by Marine Directorate .

No animal health surveillance had been carried out on behalf of the business and/or Marine Directorate since the last Marine Directorate inspection.

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

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

Signed:

Date: 15/02/2024

R14

# Fish Health Inspector

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Scottish Government website at Fish Health Inspectorate Service Charter - gov.scot (www.gov.scot)

FHI 059, Version 13	ls	sued by: FHI	Date of issue: 12/05/2020							
Case No: 2023-0400			Date of visit: 28/08/2023							
Time spent on site:	2.5 hours	Main Inspe	ctor:							
Site No: FS0316	Site Name:	Setter Voe								
Business No: FB0125	Business Name:	Scottish Sea Farms Ltd								
Case Types: 1 VMD	2 3	4 5	6							
Water Temp (°C):	Thermometer No:		FHI 045 completed							
Observations:	Region: SH	Water type: S	CoGP MA S-11							
Dead/weak/abnormally behavir	ng fish present?	Y If yes, see additional inf	formation/clinical score sheet.							
Clinical signs of disease observable	ved?		formation/clinical score sheet.							
Gross pathology observed?		N If yes, see additional inf	formation/clinical score sheet.							
Diagnostic samples taken?		N								
UNI/REG only - if unable to car	UNI/REG only - if unable to carry out intended visit detail reason below:									

After current cycle stocking will be alternated between Langa and Setter Voe, so there are currently no plans in place for restocking.

Recent mortalities on site have been attributed to CMS. There were very few moribund fish seen on site. Site is harvesting to fallow by mid to late September

33.3% (73,054) in Dec 2022 - Ronja Queen - Significant mortality during treatment. Reported to FHI.

Waste transported by to Pelagia

VMD fish appeared healthy when sampled.

FHI 059, Version 13	3		Issu	ed by: FHI			Date of issu	e: 12/05/2020
Case No:	2023-0400		Site No:	FS0316				
Date of Visit:		28/08/2023	3		Inspector(s):			ı
Registration/Auth	orisation Deta	ails						
1. Business/site de	tails summary	checked by s	ite representa	ative?			Υ	1
2. Changes made t	o details?						Y	]
Site Details (inclu	de cleaner fis	h for all sect	ions)					
Total No facilities		8	Facilities sto	cked	6	No facilitie	s inspected	6
Species	SAL						T .	
Age group	2022 S1							
No Fish	87,811							
Mean Fish Wt	6.3 Kg							
Next Fallow Date (		September 2	23	Next Input Da	ate (Site)	No plans		
Recent (last 4 wks)	•			Y	1			N
If yes, detail:	CMS							
Movement Record  1. Movement record  2. Date of last inspect  3. Are records commodered  4. Are movement records commodered  5. Are records commodered  6. Are health certification  Transport Record  1. Are any movement  If yes, is there a systematical	ds available for ection: plete and correctords available plete and correctes for introduces.	ectly entered? le for dead fis ectly entered? ductions (outw	sh and waste? ? vith GB) availa half) of the bu	able? siness (not us	_		27/10/2022	Y Y Y Y N/A
Mortality Records								
Mortality records		•						Y
2. How are mortalit	ie <u>s disposed o</u>	f?			Ensiled - on	site		
If other detail:								
<ol><li>Mortality records</li></ol>	•	correctly ent	ered?					Y
<ol><li>Recent mortality</li></ol>				(963) WK32 1.	.3% (1184) W	K33 1.4% (1	243) WK34 1	1.5% (1337)
<ol><li>Evidence of rece</li></ol>		• •						Y
If yes, facility nos/n	o mortality per	facility/no sto	ock per facility	/reason:				
See additional infor								
6. Any other peaks								Y
If yes, detail:		al information						
7. Have increased	• •	mortalities be	en reported to	vet or FHI?				N/A
If yes, detail action:								
8. Have 'mortality e	vents' been re	ported to FHI	? If no. enter	details on mor	tality events sl	heet.		Y

Treatments and Medicines Records	
1. Recent treatments (see comment)?	Y
If yes, detail: T.M.S.	
If other, detail:	
2. Medicines records available for inspection?	Y
Are records complete and correctly entered?	Y
4. Are fish in a withdrawal period?	Y
5. If yes, what treatment(s)?	
If other, detail:	
6. Are medicines stored appropriately?	Y
Biosecurity Records	
Biosecurity records available for inspection?	
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: 27/10/2022 - 28/08/2023	

HI 059, Version 13							ISS	uea by: I	гпі			
Case no:	2023-04	100	Site No:		FS0316					28/	08/2023	28/0
Priority samples:	VI		ВА		PA		MG	_	<sub>9</sub> . HI			
Time sampling starts/ends:				0:00		Inspecto	or:			VMD No	o.	20
Environmental conditions:	1	Indoors	2		3		4		5			
Summary samples	HIST		ВА		MG		VI		PA		Total Sa	mples
dd Fish/Pools - click												
Fish nos	F1	F2	F3									
Pool Group												
Species	SAL	SAL	SAL									
Average weight	6.3 Kg	6.3 Kg	6.3 Kg									
Sex	N/A	N/A	N/A									
Water Type	SW	SW	SW									
Stock Origin Facility No	Grillsta Hatchery	Grillsta Hatchery	ت Grillsta Hatchery									
	Case no:  Priority samples:  Time sampling starts/ends: Environmental conditions:  Summary samples  dd Fish/Pools - click  Pool/Fish No Fish nos Pool Group Species Average weight Sex Water Type	Case no:  Priority samples:  VI  Time sampling	Case no:  Priority samples:  VI  Time sampling	Case no:  Priority samples:  VI BA  Time sampling 13:30:00 14:3 starts/ends: Environmental conditions:  Summary samples  HIST BA  dd Fish/Pools - click  Pool/Fish No Fish nos F1 F2 F3 Pool Group Species SAL SAL SAL SAL Average weight Sex N/A N/A N/A N/A Water Type  Sw SW SW  Stock Origin  Site No: BA  A1:3 BA  A1:3 BA  A1:3 BA  A1:3 BA  A1:3 BA  A1:3 BA  A2:3 BA  A1:3 BA  A2:3 BA  BA  A2:3 BA  BA  BA  BA  BA  BA  BA  BA  BA  BA	Case no:  Priority samples:  VI BA  Time sampling 13:30:00 14:30:00 starts/ends: Environmental conditions: 1 Indoors 2  Summary samples HIST BA  dd Fish/Pools - click  Pool/Fish No Fish nos F1 F2 F3 Pool Group Species SAL SAL SAL SAL Average weight 6.3 Kg 6.3 Kg 6.3 Kg Sex N/A N/A N/A N/A Water Type SW SW SW  Stock Origin  Site No:  At 30:00 14:30:00  Starts/ends: Environmental conditions: 1 Indoors 2  Summary samples HIST BA  All SAL	Priority samples:   VI	Priority samples:	Case no:         2023-0400         Site No:         FS0316           Priority samples:         VI         BA         PA         MG           Time sampling starts/ends:         13:30:00         14:30:00         Inspector:         starts/ends:         Environmental conditions:         1 Indoors         2         3         4           Summary samples         HIST         BA         MG         VI           dd Fish/Pools - click         BA         MG         VI           Pool/Fish No         F1         F2         F3         F1           Pool Group         Species         SAL         SAL         SAL           Average weight         6.3 Kg         6.3 Kg         6.3 Kg           Sex         N/A         N/A         N/A           Water Type         SW         SW         SW           Stock Origin         Stock Origin         Stock Origin         Significant Stock Origin	Date of Sampling	Case no:   2023-0400   Site No:   FS0316   Date of visit/   Sampling:   Priority samples:   VI	Case no:   2023-0400   Site No:   FS0316   Date of visit/ Sampling:   Priority samples:   VI	Case no:   2023-0400   Site No:   FS0316   Date of visit/   Sampling:   Time sampling   13:30:00   14:30:00   Inspector:   VMD No.   Starts/ends:   Environmental conditions:   1 Indoors   2   3   4   5

08/2023	08/2023 Additional Sample Information:												
0		Total To	ests ass	igned	0	1							

Case No:	2023-0400			Date of visit:	28/08/2023						
Site No:	FS0316	1		Inchester:							
Site No.	1 303 10			Inspector:							
Results Summary	Freq.			Date of Notification							
,	i i	Database	Insp	Phone	Insp	Writing	Insp	2 <sup>nd</sup> Insp			
Report Summary				1							
Case Type	Date	Insp	2 <sup>nd</sup> Insp	4							
VMD	15/02/2024		2 IIISP								
VIIID	10/02/2024										
	1										



#### SUMMARY FOR INFORMATION OF SITE OPERATOR

 Business No
 FB0125
 Date of Visit
 28/08/2023

 Site No
 FS0316
 Site Name
 Setter Voe

 Case No
 20230400
 Inspector

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

The above site was visited in accordance with the Animals and Animal Products (Examination for Residues and Maximum Residue Limits) (England and Scotland) Regulations 2015.

Samples were taken to be analysed for veterinary residues.

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.

Medicine records were inspected and found to be adequately maintained.

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.

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



Fish Health Inspector

Date: 15/02/2024

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Scottish Government website at Fish Health Inspectorate Service Charter - gov.scot (www.gov.scot)

FHI 059, Version 13		Issued by: FHI		Date of issue:	12/05/2020			
Case No: 2023-0404			Da	ate of visit: 30/08/	2023			
Time spent on site:	) minutes	Ma	ain Inspector:					
Site No: SS0589 Business No: SB0372	Site Name: Business Name:	Quilse Shetland Mussels I	_td					
Case Types: 1 ECI 2	3	4 5	6					
Water Temp (°C): 13.1	Thermometer No:	T306	] FI	HI 045 completed				
Observations:	Region: SH	Water type:	S	CoGP MA:				
Dead/weak/abnormally behaving	fish present?	N If yes, see add	litional informat	tion/clinical score sh	eet.			
Clinical signs of disease observed	1?			tion/clinical score sh				
Gross pathology observed?		N If yes, see add	litional informat	tion/clinical score sh	eet.			
Diagnostic samples taken?		N						
UNI/REG only - if unable to carry out intended visit detail reason below:								

No issues on site.

FHI 059, Version 13	3		Iss	ued by: FHI			Date of issu	e: 12/05/2020
Case No:	2023-0404		Site No:	SS058	9			
Date of Visit:		30/08/202	23		Inspector(s)	:		ı
Registration/Author	orisation De	tails						
1. Business/site det	ails summar	y checked by	site represent	tative?			Υ	1
2. Changes made to	o details?						N	
Site Details (includ	de cleaner fi	ish for all sec	ctions)					
Total No facilities		9	Facilities st	ocked	9	No faciliti	es inspected	9
Species	MED	MED						
Age group	2023	2022						
No Fish	2T	60T						
Mean Fish Wt	<2mm	15mm						
Next Fallow Date (S	Site)	No Plans		Next Input D	ate (Site)	August 20	023	
Recent (last 4 wks)	disease prol	blems?		1	N Any escape	s (since last	t visit)?	N
If yes, detail:								
Movement Record 1. Movement record 2. Date of last inspect 3. Are records completed from the complete	ds available fection: plete and corecords available plete and corecates for intro s ents carried of	rrectly entered ble for dead for ectly entered oductions (out	d? ish and waste d? twith GB) avai ehalf) of the b	lable? ousiness (not us	· · ·		14/09/2022	Y N/A N/A N/A
Mortality records	available for	inspection?						N/A
2. How are mortaliti		•			Other (deta	il)		
If other detail:		s fall to seabe	ed		`	,		
3. Mortality records								N/A
4. Recent mortality		·	No observe	d mortality				
5. Evidence of rece		atypical morta						N/A
If yes, facility nos/no	o mortality pe	er facility/no st	tock per facilit	y/reason:				
6. Any other peaks If yes, detail:	in mortality o	during period o	checked?					N/A
7. Have increased (	unexplained	) mortalities b	een reported	to vet or FHI?				N/A
If yes, detail action:								
8. Have 'mortality e	vents' been r	reported to FF	11? If no, enter	details on mo	rtality events s	sheet.		N/A

Treatments and Medicines Records	
1. Recent treatments (see comment)?	
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	
Biosecurity records available for inspection?	
Has the manner and frequency of mortality removal, recording and safe disposal been considered?	Ÿ
3. Has the manner and period in which the APB will notify Scottish Ministers or veterinary professional of any	<u> </u>
increased (unexplained) mortality at the site been included?	Y
4. Has the action that will be taken in the event that the presence or suspicion of the presence of a listed disease	<u> </u>
is detected been included and <i>how</i> and <i>when</i> that will be notified to Scottish Ministers?	$\overline{}$
5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or higher	Ÿ
health status, certification if required)?	<u> </u>
6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minimise	Y
transmission of disease been covered (movement of staff, visitors, equipment, live or dead fish etc.)?	
7. Is documentation available regarding the measures in place to maintain the physical containment of	Y
aquaculture animals held on site?	
8. Have the biosecurity procedures been adequately implemented on site?	Y
If no, detail:	
Results of Surveillance	
1. Has any animal health surveillance been carried out by, or on behalf of, the business?	N/A
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: 14/09/2022 -30/08/2023	

	· · · · · · · · · · · · · · · · · · ·				
Case Number:	2023-0404 Site No:	SS058	9		
Date of Visit	30/08/2023 Inspector:			1	
Number of Suscepti	ble species on site				
-	ies present = <u>LOW</u> risk				
f susceptible species	present, score for each pathogen		No	Yes	
	Susceptible to Bonamia ostrea (OED)		0	25	
	Susceptible to Marteilia refringens (OED, MED)		0	3	3
	Susceptible to OsHV (CGI)		0	3	
Sites within a tidal e	xcursion	1	2-5	>6	
Site contacts	Number of sites holding susceptible species within a tidal excursion	0	2	10	10
Live shellfish mover		0	1-2	>3	
Movements on	Frequency of movements on from equivalent MS	0	5	10	0
MOVOMONIO ON	Frequency of movements on from equivalent zone or compartment including third country	0	10	20	
	Number of suppliers	0	5	10	
	realition of suppliers				
Movements off	Frequency of movements off within MSS Management Areas	0	1	2	2
	Frequency of movements off outwith MSS Management Areas	0	3	6	0
	Number of destinations	0	3	6	6
Management practices		None	Secure (effluent treatment)	Unsecure (no effluent treatment)	
Water contacts with depuration facilities	Depuration of stock from own sites within MSS				
acpuration radiities	management area	0	1	2	0
deparation radiities	management area  Depuration of stock from other businesses sites within MSS management area	0	2	6	0
acpuration facilities	Depuration of stock from other businesses sites within				0
	Depuration of stock from other businesses sites within MSS management area  Depuration of stock from sites outwith MSS management	0	2	6	0
	Depuration of stock from other businesses sites within MSS management area  Depuration of stock from sites outwith MSS management area  Number of sites  Sites operating from single shorebase	0 0 1	2	6 8 ≥4 2	2
Biosecurity	Depuration of stock from other businesses sites within MSS management area  Depuration of stock from sites outwith MSS management area  Number of sites	0 0	2 4 2 or 3	6 8 ≥4	
Biosecurity  Contacts with other	Depuration of stock from other businesses sites within MSS management area  Depuration of stock from sites outwith MSS management area  Number of sites  Sites operating from single shorebase	0 0 1	2 4 2 or 3	6 8 ≥4 2	2
Biosecurity  Contacts with other	Depuration of stock from other businesses sites within MSS management area  Depuration of stock from sites outwith MSS management area  Number of sites  Sites operating from single shorebase	0 0 1 0 0	2 4 2 or 3 1 1	6 8 ≥4 2 5	2

Case No:	2023-0404			Date of visit:	30/08/2023	В		
Site No:	SS0589	1		Inspector:				
Results Summary	Freq.	Detahasa	Ilman		te of Notifica		Ilnen	- nd -
		Database	Insp	Phone	Insp	Writing	Insp	2 <sup>nd</sup> Insp
							=	
			-				-	
			-				-	
Report Summary				1				
Case Type	Date	Insp	2 <sup>nd</sup> Insp					
ECI	15/02/2024							



## FISH HEALTH INSPECTORATE VISIT REPORT

### SUMMARY FOR INFORMATION OF SITE OPERATOR

 BUSINESS NO
 SB0372
 DATE OF VISIT
 30/08/2023

 SITE NO
 SS0589
 SITE NAME
 Quilse

 CASE NO
 20230404
 Inspector

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

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

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

### Records

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

The information required for the public record of aquaculture production businesses regarding this site was verified and where necessary updated. The following records were also inspected to ensure that the conditions of authorisation for your Aquaculture Production Business (APB) are being met:

Aquaculture animal and aquaculture animal product movement records were inspected and appeared to be adequately maintained.

No mortality had been observed on site since the last inspection by Marine Directorate.

No animal health surveillance had been carried out on behalf of the business and/or Marine Scotland since the last Marine Scotland Inspection.

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

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



Date: 15/02/2024

R14

## Fish Health Inspector

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Scottish Government website at Fish Health Inspectorate Service Charter - gov.scot (www.gov.scot)

FHI 059, Version 13		Issued by: FHI	Date of issue: 12/05/2020
Case No: 2023-0405			Date of visit: 30/08/2023
Time spent on site:	hour	Mair	n Inspector:
Site No: SS0563 Business No: SB0372	Site Name: Business Name:	East Of Linga (Vaila Shetland Mussels Ltd	,
Case Types: 1 ECI 2	2 3	4 5	6
Water Temp (°C): 13.1	Thermometer No:	T306	FHI 045 completed
Observations:	Region: SH	Water type:	CoGP MA:
Dead/weak/abnormally behaving	fish present?	N If yes, see additi	onal information/clinical score sheet.
Clinical signs of disease observed	d?		onal information/clinical score sheet.
Gross pathology observed?		N If yes, see additi	onal information/clinical score sheet.
Diagnostic samples taken?		N	
UNI/REG only - if unable to carry	out intended visit deta	ail reason below:	

## **Additional Case Information:**

No issues on site, some growth of sea squirts but overall site tidy and lines clean of fouling.

FHI 059, Version 13	;		lss	sued by: FHI			Date of issue	: 12/05/2020
Case No:	2023-040	5	Site No:	SS056	3			
Date of Visit:		30/08/20	23		Inspector(s)	):		
Registration/Author	orisation D	etails						
1. Business/site det	ails summa	ry checked b	y site represer	ntative?			Υ	
2. Changes made to	o details?						N	
Site Details (includ	de cleaner	fish for all se	ections)					
Total No facilities		5	Facilities s	tocked	4	No faciliti	es inspected	4
Species	MED	MED	MED					
Age group	2021	2020	2020					
No Fish	18T	12T	50T					
Mean Fish Wt	45mm	60mm	55mm					
Next Fallow Date (S	Site)	No Plan		Next Input D	ate (Site)	August 20	023	
Recent (last 4 wks)	disease pro	oblems?			N Any escape	s (since last	t visit)?	N
If yes, detail:								
1. Movement record 2. Date of last inspect 3. Are records completed and the records completed are records completed are records completed are health certification. Are any movement of the records are the records are any movement of the records are any movement of the records.	ection: plete and co ecords avail plete and co cates for int s nts carried	orrectly entered able for dead orrectly entered roductions (or out by (or on	ed? fish and wasted? utwith GB) ava	ailable? business (not us			19/07/2022	Y N/A N/A N/A
<ul><li>Mortality Records</li><li>1. Mortality records</li></ul>	available fo	or inspection?					F	N/A
2. How are mortaliti		•			Other (deta	il)		
If other detail:		lls fall to seab	ned		0 11.0. (0.010.	,		
3. Mortality records								N/A
4. Recent mortality				ed mortality			<u> </u>	
5. Evidence of rece				ouortaty				N/A
If yes, facility nos/no		• •		ity/reason:				
6. Any other peaks If yes, detail:	in mortality	during period	checked?					N/A
7. Have increased (	unexplaine	d) mortalities	been reported	to vet or FHI?				N/A
If yes, detail action:	•				. 10			*1/*
8. Have 'mortality ev	vents' been	reported to F	HI? If no, ente	er details on moi	rtality events	sheet.		N/A

Treatments and Medicines Records	
1. Recent treatments (see comment)?	
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?	Y
2. Has the manner and frequency of mortality removal, recording and safe disposal been considered?	Y
3. Has the manner and period in which the APB will notify Scottish Ministers or veterinary professional of any	
increased (unexplained) mortality at the site been included?	Y
4. Has the action that will be taken in the event that the presence or suspicion of the presence of a listed disease	
is detected been included and 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	Y
health status, certification if required)?	
6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minimise	Y
transmission of disease been covered (movement of staff, visitors, equipment, live or dead fish etc.)?	
7. Is documentation available regarding the measures in place to maintain the physical containment of	Y
aquaculture animals held on site?	
8. Have the biosecurity procedures been adequately implemented on site?	Y
If no, detail:	
Results of Surveillance	
1. Has any animal health surveillance been carried out by, or on behalf of, the business?	N/A
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: 19/07/2022 - 30/08/2023	

FHI 059, Version 13	Issued by: FHI			Date	of issue: 12
Case Number:	2023-0405 Site No:	SS056	3		
Date of Visit	30/08/2023 Inspector:				
Number of Susceptik	ole species on site				
-	ies present = LOW risk				
If susceptible species	present, score for each pathogen		No	Yes	
	Susceptible to Bonamia ostrea (OED)		0	25	
	Susceptible to Marteilia refringens (OED, MED)		0	3	3
	Susceptible to OsHV (CGI)		0	3	
Sites within a tidal ex	veursion	1	2-5	>6	
Site contacts					
One cornacis	Number of sites holding susceptible species within a tidal excursion	0	2	10	10
Live shellfish moven	- mto	0	1-2	>3	
Movements on	Frequency of movements on from equivalent MS	0	5	10	0
Movements on		U	3	10	0
	Frequency of movements on from equivalent zone or compartment including third country	0	10	20	
	Number of suppliers	0	5	10	
	тчатьог от варрного			.,	
Movements off	Frequency of movements off within MSS Management Areas	0	1	2	2
	Frequency of movements off <u>outwith</u> MSS Management Areas	0	3	6	6
	Number of destinations	0	3	6	6
Management practices		None	Secure (effluent treatment)	Unsecure (no effluent treatment)	
Water contacts with depuration facilities	Depuration of stock from own sites within MSS management area	0	1	2	0
	Depuration of stock from other businesses sites within MSS management area	0	2	6	
	Depuration of stock from sites outwith MSS management area	0	4	8	
Biosecurity	Number of sites	1	2 or 3	≥ 4	
Contacts with other	Sites operating from single shorebase	0	1	2	2
sites	Sites sharing staff and equipment	0	1	5	5
			Yes	No	
	Disinfection of equipment between sites, use of footbath	s etc	0	2	2
			Total Risk		36 HIGH

Case No:	2023-0405			Date of visit:	30/08/2023	В		
Site No:	SS0563	1		Inspector:				
Results Summary	Freq.	Detahasa	Ilman		te of Notifica		Ilnen	- nd -
		Database	Insp	Phone	Insp	Writing	Insp	2 <sup>nd</sup> Insp
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			-				-	
			-				-	
Report Summary				1				
Case Type	Date	Insp	2 <sup>nd</sup> Insp	1				
ECI	15/02/2024							



# FISH HEALTH INSPECTORATE VISIT REPORT

### SUMMARY FOR INFORMATION OF SITE OPERATOR

**BUSINESS NO** SB0372 **DATE OF VISIT** 30/08/2023

SITE NO SS0563 SITE NAME East Of Linga (Vaila Sound)

Case No 20230405 INSPECTOR

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

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

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

#### Records

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

The information required for the public record of aquaculture production businesses regarding this site was verified and where necessary updated. The following records were also inspected to ensure that the conditions of authorisation for your Aquaculture Production Business (APB) are being met:

No mortality had been observed on site since the last inspection by Marine Directorate.

Aquaculture animal and aquaculture animal product movement records were inspected and appeared to be adequately maintained.

No animal health surveillance had been carried out on behalf of the business and/or Marine Directorate since the last Marine Directorate inspection.

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

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

Signed:

Date: 15/02/2024

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## Fish Health Inspector

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Scottish Government website at <u>Fish Health Inspectorate Service Charter - gov.scot</u> (www.gov.scot)