Country/territory: NEW ZEALAND			AQ	UATIC ANI	MAL DISE/	ASE REPOR	T - 2022								
Item						Disease status/oc	currence code a/	/ь/						Epidemiologi-	
DISEASES PREVALENT IN THE REGION						Month							Level of diagnosis	cal comment	
FINFISH DISEASES OIE-listed diseases	January	February	March	April	May	June	July	August	September	October	November	December	-	numbers	
1. Infection with epizootic haematopoietic necrosis virus	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000			
2. Infection with infectious haematopoietic necrosis virus	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000			
3. Infection with spring viremia of carp virus	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000			
4. Infection with viral haemorrhagic septicaemia virus	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000			
5. Infection with Aphanomyces invadans (EUS) 6. Infection with red sea bream iridovirus	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000			
7. Infection with koi herpesvirus	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000			
Non OIE-listed diseases	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000			
8. Grouper iridoviral disease	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000			
9. Viral encephalopathy and retinopathy	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000			
10.Enteric septicaemia of catfish	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000			
11. Carp Edema Virus Disease 12. Tilapia lake virus (TiLV)	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000			
MOLLUSC DISEASES	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000			
OIE-listed diseases															
1. Infection with Bonamia exitiosa	- (2021)	+?	- (2022)	- (2022)	- (2022)	- (2022)	- (2022)	- (2022)	- (2022)	- (2022)	- (2022)	- (2022)		1	
2. Infection with Perkinsus olseni	- (2021)	- (2021)	- (2021)	- (2021)	- (2021)	- (2021)	- (2021)	- (2021)	- (2021)	- (2021)	- (2021)	- (2021)		2	
3. Infection with abalone herpesvirus	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000			
4. Infection with Xenohaliotis californiensis	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000			
5. Infection with Bonamia ostreae Non OIE-listed diseases	- (2021)	- (2021)	- (2021)	+?	- (2022)	- (2022)	- (2022)	- (2022)	- (2022)	- (2022)	- (2022)	- (2022)		3	
6. Infection with Marteilioides chungmuensis	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000			
7. Acute viral necrosis (in scallops)	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000			
CRUSTACEAN DISEASES		0.500	0.000	0.000	0.000		2300					2300			
OIE-listed diseases															
1. Infection with Taura syndrome virus	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000			
2. Infection with white spot syndrome virus	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000			
3. Infection with yellow head virus genotype 1	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000			
4. Infection with infectious hypodermal and haematopoietic necrosis virus	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000			
5. Infection with infectious myonecrosis virus	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000			
6. Infection with Macrobrachium rosenbergii nodavirus (White Tail disease)	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000			
7. Infection with Hepatobacter penaei (Necrotising hepatopancreatitis)	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000			
Acute hepatopancreatic necrosis disease (AHPND)	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000			
9. Infection with Aphanomyces astaci (Crayfish plague)	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000			
Non OIE-listed diseases															
10.Hepatopnacreatic Microsporidiosis caused by Enterocytozoon	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000			
hepatopenaei (HPM-EHP)															
11. Viral covert mortality disease (VCMD) of shrimps 12. Spiroplasma eriocheiris infection	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000			
13. Decapod iridescent virus 1 (DIV-1)	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000			
AMPHIBIAN DISEASES															
OIE-listed diseases															
I. Infection with Ranavirus species Jefection with Ratmahashttain double-batility	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000			
Infection with Batrachochytrium dendrobatidis Infection with Batrachochytrium salamandrivorans	-(2019) 0000	-(2019) 0000	-(2019) 0000	-(2019) 0000	-(2019) 0000	-(2019) 0000	+ 0000	+ 0000	- (2022) 0000	- (2022) 0000	- (2022) 0000	- (2022) 0000		4	
Prepared by: Name: Rissa Williams and Giulia Raponi Position: Senior Surveillance Adviser Date: 05/03/2024															
ANY OTHER DISEASES OF IMPORTANCE															
2															
DISEASES PRESUMED EXOTIC TO THE REGION [®] LISTED BY THE OIE Finfish: Infection with PIPA deleted or HPR0 salmon maceina virus; Infection with salmon pancreas disease virus; Infection with Martellia refringens; Perkinaus marinus. Mollesse: Infection with Martellia refringens; Perkinaus marinus. NOT LISTED BY THE OIE Finfish: Channel cartifish virus disease															
a/ Please use the following occurrence code:															
Occurrence code and Definition symbol	Occurrence of	de and symbol		Definition											
Disease present The disease is present with clinical signs in the whole country	P.		The disease was ab		. Annin d										
+ (in domestic species or wildlife) Disease limited to one	Diseas	e absent -	The disease was at reporting period (i												
or more zones more zones/compartments (in domestic species or wildlife)															
+() +()		reported	The disease has "no absent) for the who												
Infection/infestation Confirmed infestation or infection using diagnostic tests, but	0000		wildlife.	·,	,										
+? no clinical signs observed (in domestic species or wildlife)			No information is available resarding the presence or												
Infection/infestation limited to one or more zones +?() Confirmed infestation or infection using diagnostic tests, but no clinical signs observed and limited to one or more zones/compartments (in domestic species or wildlife)		ermation **	No information is available regarding the presence or the absence of this disease during the reporting period (in domestic species or wildlife).												
Disease suspected The presence of the disease was suspected but not confirmed															
? (in domestic species or wildlife) Disease suspected but															
not confirmed and The presence of the disease was suspected but not confirmed limited to one or more and limited to one or more zones/compartments (in domestic zones species or wildlife) ?()															
b/ If there is any changes on historical data, please highlight in <u>RED</u>															

1. Epidemiological comments:

should include: 1) Origin of the disease or pathogen (history of the disease); 2) Species affected; 3) Disease characteristics (unusual clinical signs or lesions); 4) Pathogen (solated sero-typed); 5) Mortality rate (high/low; decreasing/increasing); 6) Death toll (economic loss, etc); 7) Size of infected areas or names of infected areas; 8) control measures taken; 9) Samples sent to national or international laboratories for confirmation (indicate the names of laboratories); 10) Published paper (articles in journals/website, etc), and 11) Unknown disease: describe details as much as possible.) Comment No. 1) Origin of the disease or pathogen (history of the disease): Detected via targeted surveillance
2) Species affected: wild flat oysters (*Ostrea chilensis*)
3) Disease characteristics (unusual clinical signs or lesions): n/a
4) Pathogen (solated/serv-typed): *Banamia exitiosa*5) Mortality rate (high/low; decreasing/increasing): n/a
6) Death toll (economic loss, etc): n/a
7) Size of infected areas: Foveaux Strait, Southland
8) Preventive/control measures taken: n/a
9) Samples sent to national laboratories for confirmation (indicate the names of laboratories): histopathology and ddPCR (National Institute Water and Atmospheric Research)
10) Published paper (articles in journals/website, etc): n/a
11) Unknown diseases: discribe datalia smuch as possible): n/a *Bornamia exitiosa* occurs in commercial flat oyster (*Ostrea chilensis*) beds in Foveaux Strait, Southland where it is highly prevalent and associated with mortalities in mid to late summer. It occurs intermittently around the South Island on the Warborough Sounds and Wellington Haards (Gut (Auckland region), Tauranga (Bay of Plenty region), the Mardsorough Sounds and Wellington Haards (Gut (Auckland region), Tauranga (Bay of Plenty region), the Mardsorough Sounds and Wellington Hardsorus (Strites, Ind). Annual monitoring of the presence of *B. exitiosa* infection is undertaken in the flat oyster republishe in mid to late summer. It occurs intermittently around the south Strait, Southland where it is highly prevalent and associated with mortalities in mid to late summer. It occurs intermittently around the south Strait and of the North Island (Naw Pachorough Sounds and Wellington is undertaken in the flat oyster republished in the Arborough Sounds and Wellington is undertaken in the flat oyster republished in the Arborough Sounds and Wellington is the same recommend with disease, however *B. exitiosa* is known to be associated with mortalities in mid 1 Perkinsus olseni was first detected in New Zealand in 1999, in wild wedge shells (*Macomona Iiliana*). It was then found in wild populations of New Zealand cockles (*Austrovenus stutchburyi*), ark shells (*Barbatia* novaezelandiae) and pipi (*Paphies australis*) in 2000-2001. In July 2013, *P. olseni* was detected for the first time in farmed black foot paua (*Halictis iris*), an abalone species endemic to New Zealand. Further detections were made in wild *H. iris* populations in 2014. These mollusc species occur widely around the cost of New Zealand, but to date *P. olseni* has only been detected in these species from the Auckland region northwards. *Perkinsus* olseni was found for the first time on these studies (*Pare acaticulus*) in aland-based aquaculture facility in September 2014, and then in wild New Zealand Guess (*Pere acanaficulus*) in aland-based aquaculture facility in September 2014, and then in wild New Zealand Scalops (*Pecten zoscelandiae*) in November 2014. Both of these findings were in the Martborough region, and were incidental and not associated with mortality events. In November 2017, general surveillance detecte *P. olseni* from New Cosland serve in the Auckland region (North Island), that was not associated with mortalities. In October 2019, *P. olseni* was detected in *P. canaliculus*) in the Coromandel region (North Island), that was not associated with mortalities. In October 2019, *P. olseni* was detected in *P. olseni* was reperinged mussels (*Perna canaliculus*) in the Coromandel (Waikato region) and in Ple Osceni sound for the first prenipped mussels (*neutrona canaliculus*) in the Coromandel (Waikato region) and in Ple Osceni sound for the first in this case. In January – March 2021, *P. olseni* was reported form a targeted survey of farmed greenlipped mussels (*Perna canaliculus*) in the Coromandel (Waikato region) and in Ple Orona sound (Markborough region) and in Neidors Sound (Markborough region) and in Neidors Sound (Markborough region) and in Seidor secentre candiculus) 2 Reported in Big Glory Bay and Foveaux Strait via targeted surveillance;
 Species affected - wild flat oysters (*Ostrea chilensis*)
 Clinical signs - n/a
 Pathogen - Bonamia ostreae
 Mortality rate - n/a
 Economic loss - n/a
 Geographic extent - Big Glory Bay, Stewart Island and Foveaux Strait (Southland)
 Containmet measures - n/a: Containment measures - n/a;
 Laboratory confirmation - - ddPCR (National Institute Water and Atmospheric Research), qPCR and nucelotide sequencing (National Animal Health laboratory) 3 9. Laboratory confirmation - ddPCR (National Institute Water and Atmospheric Research), *apCR* and nucleidide sequencing (National Animal Health laboratory)

 10. Publications - None. Bonamia ostreae was detected for the first time in New Zealand flat oysters (Ostrea chilensis) in January 2015. It was found in two regions in the northern part of the South Island: on one land-based aquaculture facility in the Nelson region, and on two marine farms in the Marlborough region. Since that time, movement controls have been in place to regulate the movement of susceptible shellfish from the northern regions of the South Island and active surveillance has been conducted for the purposes of early detection of spread. In 2016. B. ostreae was detected in both farmed and wild flat oysters within the Marlborough region (Net south Island; networked) and was associated with pathology and mortality in the farmed opoulation. In May 2017 surveillance detected B. ostreae in marine flat oyster farms in Big Glory Bay, Stewart Island (situated in the Southland region, at the south Island). No clinical signs or elevated mortality was observed in association with B. ostreae in farmed flat oysters in Big Glory Bay. Following this detection, memory of the South Island and active surveillance detected S. ostreae in marine flat oyster farms. Figure South Stand, No clinical signs or elevated mortality was observed in association with B. ostreae in farmed flat oysters in Big Glory Bay. Following this detection, memory of the South Island and was completed September 2017. Depopulation of farms in Marlborough Sounds commenced on the 11 July and was completed in December 2017. In April 2022, targeted surveillance detected B. ostreae in 7/150 wild flat oysters collected form Big Glory Bay, Stewart Island (Southland region). Reported in the Auckland, Gisbourne, and Manawatu-Whanganui regions via general surveillance
 Species affected - green and golden bell frogs (*Ranoidea aurea*)
 Glinical signs - Yes
 Pathogen - Batrachochytrium dendrobatidis
 Containment measures - n/a;
 Laboratory confirmation - Post-mortem, histopathology, and molecular testing (National Animal Health laboratory).
 Dublications - The first isolation of *Batrachochytrium dendrobatidis* was detected associated with the mortality of approximately 15 wild frogs from the Gisbourne region, four wild geren and golden bell frogs (*Ranoidea aurea*) from the Manawatu-Whanganui region and six wild sick/dead green and golden bell frogs in the city of Auckland. Green and golden bell frogs are an introduced species of Australian frog that has established in New Zealand. (Bingham P (2022). Quarterly report of investigations of suspected exotic diseases: July to September. Surveillance 29 (4) 23-24). 4 5 . New aquatic animal health regulations introduced within past six months (with effective date):