



Fisheries and Oceans
Canada

Pêches et Océans
Canada

FISH HEALTH CERTIFICATE

Name of facility/source Cascade Aqua Farms Address 814 King Road
Winlock, WA 98596 Telephone No. (360) 785-7506

I, John D. Cvitanich, as a Fish Health Official under the Fish Health Protection Regulations, certify that the source indicated above was inspected by the methods approved by the Minister of Fisheries and Oceans Canada, and that the following pathogen status was determined as required by those Regulations.

Pathogen	Detected	Not Detected	Not Tested
Viral Hemorrhagic Septicemia Virus	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Infectious Hematopoietic Necrosis Virus	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Infectious Pancreatic Necrosis Virus	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other filterable replicating agent	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Aeromonas salmonicida	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Yersinia ruckeri	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mycobacterium cerebralis	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Gerabomyxa shasta	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Other pathogens (specify if possible) _____

Dates of the last four previous inspections:

25/11/98
(D/M/Y)

22/05/98
(D/M/Y)

22/11/97
(D/M/Y)

29/04/97
(D/M/Y)

28/05/99
Date of Issue

John D. Cvitanich
Signature and Address of Fish Health Official
Fish Health Laboratory
2252 Main Street
Sweet Home, OR 97386

(541) 367-6300
Telephone No.

This certificate expires on the date the pathogen status changes or 28/02/00, whichever is the earlier.

EXPORTER'S DECLARATION

I, _____ () owner () manager of the above noted facility which was last inspected on (D/M/Y) _____, declare that, to my knowledge, no disease agent listed in Schedule II of the Fish Health Protection Regulations (FHPR) that would alter the above described pathogen status have been detected, in this facility, according to the procedures outlined in the FHPR Manual of Compliance since the last FHPR inspection, that no introduction of fish or fish eggs from any source that would alter the above pathogen status has been made into the facility, that the shipment described above will be derived solely from this facility, and that eggs in the shipment will be surface disinfected prior to leaving the source.

I, _____ consignor of eggs taken from wild spawners declare that these eggs will be surface disinfected and that they derive solely from the above inspected source.

This shipment consists of:

_____ kg ☐ Live ☐ Eggs Species: _____
_____ Number ☐ Dead ☐ Fish Species: _____

_____ Date _____ Signature and Address of Owner, Manager or Consignor _____ Telephone No. _____

IMPORTING INFORMATION

Departing city and country _____ Carrier _____

Bill of lading No. _____ Date _____

Anticipated port of arrival in Canada (City and Province): _____ Date _____

_____ Date _____ Signature and Address of Importer _____ Telephone No. _____

RPC Aquaculture Diagnostics Fish Health Inspection Report

Fish Source: Boot Lagoon Hatchery
Location: Site 306, C-13 R.R. #3
Central Lake Road
Port Alberni, B.C.

Owner/Manager: Caroline Cherry
Phone: (250) 723-4644

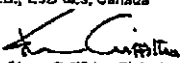
Current inspection: 01/08/00

Prior Inspections: 04/05/00
14/04/00
14/03/00
20/09/99
30/08/99

Type of Fish Examined: Hatchery

Water Source: Fresh

Water Treatment:

Species	Lot ID	Age	Number in Lot	Eggs (E) or Fish (F) Origin	Sample Date	Cultureable Viral Pathogens					Protozoan Pathogens		Bacterial Pathogens				Non Cultureable Viral Pathogens			Other	
						OMV	IPN	IHN	VHS	ISA	WD	CS	BF	BRM	BKD	PS	PL	EIBS	VEN		Other
ATS	Tank 603	8 mths		(F) Cascade Aquaculture Cascade stock	01/08/00	20	20	20	20	20	20	20	20	20	20	20	20	20	20		
						E24B	E24B	E24B	E24B	E26B	B	C*	A1AG	A1AG	A1G	A17G	A17G	A8G			
						-	-	-	-	-	-	-	-	-	-	-	-	-			
ATS	Tank 606	8 mths		(F) Cascade Aquaculture Cascade stock	01/08/00	20	20	20	20	20	20	20	20	20	20	20	20	20	20		
						E24B	E24B	E24B	E24B	E26B	B	C*	A1AG	A1AG	A1G	A17G	A17G	A8G			
						-	-	-	-	-	-	-	-	-	-	-	-	-			
ATS	Tank 611	8 mths		(F) Cascade Aquaculture Cascade stock	01/08/00	20	20	20	20	20	20	20	20	20	20	20	20	20	20		
						E24B	E24B	E24B	E24B	E26B	B	C*	A1AG	A1AG	A1G	A17G	A17G	A8G			
						-	-	-	-	-	-	-	-	-	-	-	-	-			
ATS	Tank 612	8 mths		(F) Cascade Aquaculture Cascade stock	01/08/00	20	20	20	20	20	20	20	20	20	20	20	20	20	20		
						E24B	E24B	E24B	E24B	E26B	B	C*	A1AG	A1AG	A1G	A17G	A17G	A8G			
						-	-	-	-	-	-	-	-	-	-	-	-	-			
ATS	Tank 613	8 mths		(F) Cascade Aquaculture Cascade stock	01/08/00	20	20	20	20	20	20	20	20	20	20	20	20	20	20		
						E24B	E24B	E24B	E24B	E26B	B	C*	A1AG	A1AG	A1G	A17G	A17G	A8G			
						-	-	-	-	-	-	-	-	-	-	-	-	-			
ATS	Tank 614	8 mths		(F) Cascade Aquaculture Cascade stock	01/08/00	20	20	20	20	20	20	20	20	20	20	20	20	20	20		
						E24B	E24B	E24B	E24B	E26B	B	C*	A1AG	A1AG	A1G	A17G	A17G	A8G			
						-	-	-	-	-	-	-	-	-	-	-	-	-			
Note:						Samples Necropsied By: Rebecca Liston															
* See other side of sheet for explanation of Pathogens - Methods and Results coding.						Affiliation: rpc, 921 College Hill Road, Fredericton, N.B., E3B 6Z9, Canada Telephone: (506) 452-1379															
Samples were inspected according to the Canadian FHPR Manual of Compliance procedures / OJ.E Diagnostic Manual for Aquatic Animal Diseases 1997 / Disease of Seawater Netpen Reared Salmonid Fishes, Kent et al.						Inspecting Biologist:  Dr. Steve Griffiths, Fish Health Officer (FHPR) RPC, 921 College Hill Road, Fredericton, N.B. E3B 6Z9 (506) 452-1368															
* Ceratomyxa shasta testing was performed using expressed fecal material.																					

RPC Aquaculture Diagnostics Fish Health Inspection Report

Fish Source: Boot Lagoon Hatchery
Location: Site 306, C-13 R.R. #3
Central Lake Road
Port Alberni, B.C.

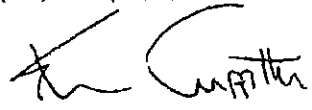
Owner/Manager: Caroline Cherry
Phone: (250) 723-4644

Current Inspection: 04/05/00

Prior Inspections: 14/04/00
14/03/00
20/09/99
30/08/99

Type of Fish Examined: Hatchery

Water Source: Fresh
Water Treatment:

Species	Lot ID	Age	Number in Lot	Eggs (E) or Fish (F) Origin	Sample Date	Cultureable Viral Pathogens					Protozoan Pathogens		Bacterial Pathogens				Non Cultureable Viral Pathogens			Other	
						OMV	IPN	IHN	VHS	ISA	WD	CS	BF	BRM	BKD	PS	PL	E/BS	VEN	Other	
ATS	Q1 M00-033	4 month		(F) Cascade Aquaculture Cascade stock	04/05/00	30	30	30	30	30	30	30	30	30	30	30	30	30	30		
						E24B	E24B	E24B	E24B	E26B	B	C*	AIAG	A1AG	A1G	A17G	A17G	A8G			
						-	-	-	-	-	-	-	-	-	-	-	-	-	-		
ATS	Q2 M00-033	4 month		(F) Cascade Aquaculture Cascade stock	04/05/00	30	30	30	30	30	30	30	30	30	30	30	30	30	30		
						E24B	E24B	E24B	E24B	E26B	B	C*	AIAG	A1AG	A1G	A17G	A17G	A8G			
						-	-	-	-	-	-	-	-	-	-	-	-	-	-		
ATS	Q3 M00-033	4 month		(F) Cascade Aquaculture Cascade stock	04/05/00	30	30	30	30	30	30	30	30	30	30	30	30	30	30		
						E24B	E24B	E24B	E24B	E26B	B	C*	AIAG	A1AG	A1G	A17G	A17G	A8G			
						-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Note: * See other side of sheet for explanation of Pathogens - Methods and Results coding. Samples were inspected according to the Canadian FHPR Manual of Compliance procedures / O.I.E Diagnostic Manual for Aquatic Animal Diseases 1997 / Disease of Seawater Netpen Reared Salmonid Fishes, Kent et al. * Ceratomyxa shasta testing was performed using expressed fecal material.						Samples Necropsied By: Lynn A. Hutchin Affiliation: rpc, 921 College Hill Road, Fredericton, N.B., E3B 6Z9, Canada Telephone: (506) 452-1374 Inspecting Biologist:  Dr. Steve Griffiths, Fish Health Officer (FHPR)															

Owner/Manager: Caroline Cherry
Phone: (250) 723-4644

Current Inspection: 14/04/00

Prior inspections: 14/03/00
20/09/99
30/08/99

Fish Source: Boot Lagoon Hatchery
Location: Site 306, C-13 R.R. #3
Central Lake Road
Port Alberni, B.C.

Type of Fish Examined: Hatchery

Water Source: Fresh
Water Treatment:

Species	Lot ID	Age	Number in Lot	Eggs (E) or Fish (F) Origin	Sample Date	Cultureable Viral Pathogens					Protozoan Pathogens		Bacterial Pathogens				Non Cultureable Viral Pathogens			Other
						OMY	IPN	IHN	VHS	ISA	WD	CS	BF	BRM	BKD	PS	PL	EBS	VEN	Other
ATS	Q1 M00-033	3 month		(F) Cascade Aquaculture Cascade stock	14/04/00	30	30	30	30	30			30	30	30	30				
						E24B	E24B	E24B	E24B	E26B			A1AG	A1AG	A1CL	A24B				
						-	-	-	-	-			-	-	-	-				
ATS	Q2 M00-033	3 month		(F) Cascade Aquaculture Cascade stock	14/04/00	30	30	30	30	30			30	30	30	30				
						E24B	E24B	E24B	E24B	E26B			A1AG	A1AG	A1CL	A24B				
						-	-	-	-	-			-	-	-	-				
ATS	Q3 M00-033	3 month		(F) Cascade Aquaculture Cascade stock	14/04/00	30	30	30	30	30			30	30	30	30				
						E24B	E24B	E24B	E24B	E26B			A1AG	A1AG	A1CL	A24B				
						-	-	-	-	-			-	-	-	-				

Note:

* See other side of sheet for explanation of Pathogens - Methods and Results coding.


Samples were inspected according to the Canadian FHPR Manual of Compliance procedures / OIE Diagnostic Manual for Aquatic Animal Diseases 1997 / Disease of Seawater Netpen Reared Salmonid Fishes, Kent et al.

*Note: Due to the size / age of ATS inspected Parasitology was not done. PL inspection by cell culture.

Samples Necropsied By: Lynn A. Hutchin

Affiliation: rrc, 821 College Hill Road, Fredericton, N.B., E3B 6Z9, Canada
Telephone: (508) 452-1374

Inspecting Biologist:


 Dr. Steve Griffiths, Fish Health Officer (FHPR)

RPC, 921 College Hill Road, Fredericton, N.B. E3B 6Z9 (506) 452-1368

RPC Aquaculture Diagnostics Fish Health Inspection Report

Fish Source: Boot Lagoon Hatchery
Location: Site 306, C-13 R.R. #3
Central Lake Road
Port Alberni, B.C.

Owner/Manager: Caroline Cherry
Phone: (250) 723-4644


Current Inspection: 04/05/00

Prior Inspections: 14/04/00
14/03/00
20/09/99
30/08/99

Type of Fish Examined: Hatchery

Water Source: Fresh
Water Treatment:

DRAFT

Species	Lot ID	Age	Number In Lot	Eggs (E) or Fish (F) Origin	Sample Date	Cultureable Viral Pathogens					Protozoan Pathogens		Bacterial Pathogens				Non Cultureable Viral Pathogens			Other
						OMV	IPN	IHN	VHS	ISA	WD	CS	BF	BRM	EKO	PS	PL	EB3	VEN	Other
ATS	Q1 M00-033	4 month		(F) Cascade Aquaculture Cascade stock	04/05/00	30	30	30	30	30	30	30	30	30	30	30	30	30	30	
						E24B	E24B	E24B	E24B	E26B	B	C*	AIAG	A1AG	A1CL	A17G	A17G	A8G		
ATS	Q2 M00-033	4 month		(F) Cascade Aquaculture Cascade stock	04/05/00	30	30	30	30	30	30	30	30	30	30	30	30	30	30	
						E24B	E24B	E24B	E24B	E26B	B	C*	AIAG	A1AG	A1CL	A17G	A17G	A8G		
ATS	Q3 M00-033	4 month		(F) Cascade Aquaculture Cascade stock	04/05/00	30	30	30	30	30	30	30	30	30	30	30	30	30	30	
						E24B	E24B	E24B	E24B	E26B	B	C*	AIAG	A1AG	A1CL	A17G	A17G	A8G		
Note: * See other side of sheet for explanation of Pathogens - Methods and Results coding. Samples were inspected according to the Canadian FHPR Manual of Compliance procedures / O.I.E Diagnostic Manual for Aquatic Animal Diseases 1997 / Disease of Seawater Netpen Reared Salmonid Fishes, Kent et al. * Ceratomyxa shasta testing was performed using expressed fecal material.						Samples Necropsied By: Lynn A. Hutchin Affiliation: rpc, 821 College Hill Road, Fredericton, N.B., E3B 6Z9, Canada Telephone: (506) 452-1374 Inspecting Biologist:  Dr. Steve Griffiths, Fish Health Officer (FHPR)														

RPC Aquaculture Diagnostics Fish Health Inspection Report

Fish Source: Boot Lagoon Hatchery
Location: Site 306, C-13 R.R. #3
Central Lake Road
Port Alberni, B.C.

Owner/Manager: Caroline Cherry
Phone: (250) 723-4644

Current Inspection: 14/03/00

Prior Inspections: 20/09/99
30/08/99

Type of Fish Examined: Fresh

Water Source: Fresh
Water Treatment:

fish too small to carry out full work out.

Species	Lot ID	Age	Number in Lot	Eggs (E) or Fish (F) Origin	Sample Date	Cultureable Viral Pathogens					Protozoan Pathogens		Bacterial Pathogens			Non Cultureable Viral Pathogens			Other
						OMV	IPN	IHN	VHS	ISA	WD	CS	BF	BRM	BKD	PL	EIS	VEN	Other
ATS	Q1 M00-033	2 month		(F) Cascade Aquaculture Cascade stock	14/03/00	30	30	30	30	30			10	10					10
						E24B	E24B	E24B	E24B	E26B			ABIAG	AB1AG				AB4BG	
						-	-	-	-	-			**	**				**	
ATS	Q2 M00-033	2 month		(F) Cascade Aquaculture Cascade stock	14/03/00	30	30	30	30	30			10	10					10
						E24B	E24B	E24B	E24B	E26B			ABIAG	AB1AG				AB4BG	
						-	-	-	-	-			**	**				**	
ATS	Q3 M00-033	2 month		(F) Cascade Aquaculture Cascade stock	14/03/00	30	30	30	30	30			5	5					5
						E24B	E24B	E24B	E24B	E26B			ABIAG	AB1AG				AB4BG	
						-	-	-	-	-			**	**				**	
<p>Note:</p> <ul style="list-style-type: none"> See other side of sheet for explanation of Pathogens - Methods and Results coding. <p>Samples were inspected according to the Canadian FHPR Manual of Compliance procedures / O.I.E Diagnostic Manual for Aquatic Animal Diseases 1997 / Disease of Seawater Netpen Reared Salmonid Fishes, Kent et al.</p> <p>** See attached sheets for Bacteriology and Histology results.</p>						<p>Samples Necropsied By: Lynn A. Hutchin</p> <p>Affiliation: rpc, 921 College Hill Road, Fredericton, N.B., E3B 6Z9, Canada Telephone: (506) 452-1374</p> <p>Inspecting Biologist:</p> <p><i>[Signature]</i> Dr. Steve Griffiths, Fish Health Officer (FHPR)</p>													



Fish Health

Diagnostic & Research Laboratory

2252 Main St.
Sweet Home, OR 97386 ~ USA
Phone) 541-367-6300 Fax) 541-367-6399

Brian Mencke
Cascade Aqua Farms
814 King Road
Winlock, WA 98596

November 22, 1999

Reference No: FH 032-99

Dear Mr. Mencke,

On October 29 and 30, 1999, samples were taken from 3 groups of spawning Atlantic salmon broodstock at your Cascade Aqua Farms facility located on Cinebar creek, Cinebar, WA. The groups included (1) 280 4-year old Gaspe (CAF-4) (30 females/lethal, 30 males/lethal, and 220 females/non-lethal), (2) 90 3-year old Gaspe (CAF-3) (30 females/lethal, 30 males/lethal, 30 females/non-lethal), and (3) 64 4-year old Cascade Aqua Farm stock (CAF) (all females/non-lethal). These adult samples were taken to satisfy requirements for Canadian certification and Chilean requirements for importation of eggs. Eggs from CAF-4 and CAF to be used for Chilean egg sales.

All samples were processed according to methods described in the Canadian Fish Health Protection Regulations Manual of Compliance.

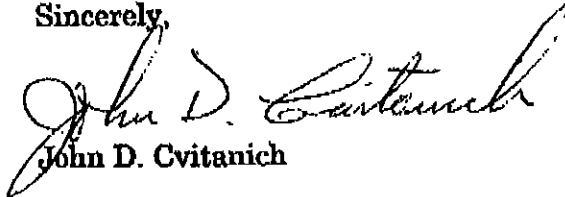
Virus samples consisted of gill, kidney, spleen, and pyloric caeca tissues from lethally sampled fish, and ovarian fluid from non-lethally sampled fish. Samples from individual fish were processed in up to 5-fish pools and assayed for viruses on the EPC and CHSE-214 cell lines. Tissue samples from 30 CAF-4 females and ovarian fluids from 220 CAF-4 and 64 CAF females were also processed in 5-fish pools and additionally tested for Infectious Salmon Anemia virus (ISAV) on the SHK cell line. SHK cells were grown in Leibovitz's L-15 medium supplemented with 5% fetal bovine serum, 2 mercaptoethanol (800 µl / liter of a 1000x solution; Gibco cat. no 21985-023), and the normal antimicrobials. All cell lines were

FH 032-00

incubated at 15° C, the EPC's and CHSE-214's for 21 days and the SHK's for 28 days. Fish heads were processed using the plankton-centrifuge method and examined for the presence of *Myxobolus cerebralis*. Wet mounts of rectum contents were examined for the presence of *Ceratomyxa shasta*. Kidney tissue taken from individual fish was inoculated onto Trypticase Soy Agar (TSA) plates and incubated at room temperature for one week. Kidney smears from lethally sampled fish and smears prepared from ovarian fluids from non-lethally sampled fish were examined for the presence of *Renibacterium salmoninarum* (all groups) and *Piscirickettsia salmonis* (CAF-4 & CAF) using the direct fluorescent antibody technique (DFAT).

No evidence of Infectious Pancreatic Necrosis Virus (IPNV), Infectious Hematopoietic Necrosis Virus (IHNV), Viral Hemorrhagic Septicemia Virus (VHSV), Epizootic Hematopoietic Necrosis Virus (EHNV), *Oncorhynchus masou* Virus (OMV), ISAV, or any other CPE-producing agent was observed in cell cultures. Spores resembling *M. cerebralis* were not detected in concentrates of head-cartilage preparations and rectum contents were negative for *C. shasta*. No bacterial fish pathogens were detected on TSA and *R. salmoninarum* and *P. salmonis* were not observed in any preparations.

Sincerely,



John D. Cvitanich

Canadian Fish Health Official
USFWS Title 50 Inspector
AFS/FHS Certified Fish Pathologist



Fisheries and Oceans
Canada

Pêches et Océans
Canada

FISH HEALTH CERTIFICATE

Name of facility/source Cascade Aqua Farms Address 814 King Road
Winlock, WA 98596 Telephone No. (360)785-7506

I, John Cvitanich, as a Fish Health Official under the Fish Health Protection Regulations, certify that the source indicated above was inspected by the methods approved by the Minister of Fisheries and Oceans Canada, and that the following pathogen status was determined as required by those Regulations.

Pathogen	Detected	Not Detected	Not Tested
Viral Hemorrhagic Septicemia Virus	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Infectious Hematopoietic Necrosis Virus	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Infectious Pancreatic Necrosis Virus	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other filterable replicating agent	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<i>Aeromonas salmonicida</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<i>Yersinia ruckeri</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<i>Mycobolus cerebralis</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<i>Ceratomyxa shasta</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Other pathogens (specify if possible) _____

Dates of the last four previous inspections:

28/05/99 25/11/98 22/05/98 22/11/97
(D/M/Y) (D/M/Y) (D/M/Y) (D/M/Y)
21/11/99 John Cvitanich Fish Health Laboratory
Date of Issue Signature and Address of Fish Health Official 2252 Main Street
Sweet Home, OR 97386 (541)367-6300
Telephone No.

This certificate expires on the date the pathogen status changes or 21/08/00, whichever is the earlier.

EXPORTER'S DECLARATION

I, _____, (owner ☐ manager of the above noted facility which was last inspected on (D/M/Y) _____, declare that, to my knowledge, no disease agent listed in Schedule II of the Fish Health Protection Regulations (FHPR) that would alter the above described pathogen status have been detected, in this facility, according to the procedures outlined in the FHPR Manual of Compliance since the last FHPR inspection, that no introduction of fish or fish eggs from any source that would alter the above pathogen status has been made into the facility, that the shipment described above will be derived solely from this facility, and that eggs in the shipment will be surface disinfected prior to leaving the source.

I, _____, consignor of eggs taken from wild spawners declare that these eggs will be surface disinfected and that they derive solely from the above inspected source.

This shipment consists of:

_____ kg ☐ Live ☐ Eggs Species: _____
_____ Number ☐ Dead ☐ Fish Species: _____

_____ Date _____ Signature and Address of Owner, Manager or Consignor _____ Telephone No. _____

IMPORTING INFORMATION

Departing city and country _____ Carrier _____
Bill of lading No. _____ Date _____
Anticipated port of arrival in Canada (City and Province): _____ Date _____
_____ Date _____ Signature and Address of Importer _____ Telephone No. _____