

Fisheries and Oceans
CanadaPêches et Océans
Canada

FISH HEALTH CERTIFICATE

Name of facility Capeable Acum Farm Address 170 Harkins Road
Winlock, WA 98586 USA Telephone No. (360) 785-7506

I, Thomas J. Baldwin as a Fish Health Officer 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 transmissible replicating agent	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Aeromonas salmonicida	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Vibrio parvulus	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mycobacterium fortuitum	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cryptosporidium parvum	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Other pathogens (specify if possible) Not detected.

Dates of the last four previous inspections: See attached.

14 Nov 01 & 29 Oct 01 12 Jun 01
 (D/M/Y) (D/M/Y)

21 Nov 00 27 Jan 00
 WASHINGTON STATE
 DIAGNOSTIC LABORATORY
 600 2037 COLLEGE STATION
 PULLMAN, WA 99163-2037
 Telephone No. (509) 335-9696

07 Dec 01
 Date of issue

Thomas J. Baldwin
 Signature and Address of Fish Health Officer

This certificate expires on the date the pathogen status changes of 12 Aug 02, whichever is the earlier.

EXPORTER'S DECLARATION

I, Brian Mencke ☒ owner ☐ manager of the above named facility which was last inspected on (D/M/Y) 14/11/01, declare that, to my knowledge, no disease agent listed in Schedule 2 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, Caroline Cherry ☒ developer 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:

800,000 kg

☒ Live

☐ Eggs

Species: Atlantic Salmon

800,000 Number

☐ Dead

☐ Fish

Species: _____

10/12/01
 Date

Brian Mencke
 Signature and Address of Carrier, Manager or Consignor

360-985-2046
 Telephone No.

IMPORTING INFORMATION

Exporting city and country SEA-TAC, USA

Carrier Horizon Air

Bill of lading No. _____

Date Dec. 19, 2001

Anticipated port of arrival in Canada (City and Province) Victoria, BC, Canada Date Dec. 18, 2001

Pacific National Group

Port Lagoon Hatchery

P.O. Box 306, Site 306, 210 Great Central Lake Rd.

Port Alberni, BC V9Y 7L7

Attn: Caroline Cherry

Telephone No. ph. 250-723-4644

SPECIES ABBREVIATIONS:

RC	Arctic Char	HYS	Hybrid salmon (specify cross)
RG	Arctic grayling	KOE	Kokanee
TS	Atlantic salmon	LAS	Landlocked Atlantic salmon
KT	Brook trout	LAT	Lake trout
NT	Brown trout	OHT	Ohrid trout
HS	Chub salmon	OSA	Other salmon (specify)
OS	Coho salmon	PKS	Pink salmon
KS	Chinook salmon	RBT	Rainbow trout
UT	Cutthroat salmon	SOS	Sockeye salmon
OV	Dolly Varden trout	STT	Steelhead trout
IT	Gila trout	SNT	Sunapee trout
OT	Golden trout	WHF	Whitefish (specify)

Findings are reported in columns from top to bottom for each lot as follows: number of fish examined; methods used; results. Positive results include the number of positive individual (or pools) / the number of samples.

PATHOGEN ABBREVIATION:

IPNV	Infectious Pancreatic Necrosis virus
IHNV	Infectious Hematopoietic Necrosis virus
HSV	Viral Hemorrhagic Septicemia virus
ISAV	Infectious Salmonid Anemia virus
VEN	Viral Erythrocytic Necrosis virus
HPV	<i>Herpesvirus salmonis</i>
OMV	<i>Oncorhynchus masou</i> virus
TYV	Yamame Tumor virus
EEV	Epizootic Epitheliotropic virus
FA	<i>Aeromonas salmonicida</i>
RY	<i>Yersinia ruckeri</i>
KDR	<i>Renibacterium salmoninarum</i>
P	<i>Pseudomonas</i> sp.
A	<i>Aeromonas hydrophila</i>
ID	<i>Myxobolus cerebralis</i>
S	<i>Ceratomyxa shasta</i>
L	Plasmacytoid Leukemia
IBS	Erythrocytic Inclusion Body Syndrome
EN	Viral Erythrocytic Necrosis
S	<i>Piscirickettsia salmonis</i>

DIAGNOSTIC METHODS:

CULTUREABLE VIRAL PATHOGEN

(encoded as follows)
First letter = sample method
A = whole fry homogenates
B = whole visceral homogenates
C = kidney / spleen
D = ovarian fluids
E = kidney/spleen/pyloric caeca/gill lamellae

Numbers = continuous cell lines used

1 = RTG-2 (rainbow trout gonad)
2 = CHSE-214 (chinook salmon gonad)
3 = FHM (fathead minnow)
4 = EPC (epithelioma papillosum cyprini)
5 = BF-2 (bluegill fry)
6 = SHK (salmon head kidney)

Last letter = pooling of samples

A = Individual fish
B = five fish pools
C = Other _____

PROTOZOAN PATHOGENS

(encoded as follows)
A = Digestion method
B = Plankton centrifuge method
C = Examination of stained smear

RESULTS ARE REPORTED AS (-) IF NOT DETECTED
AND IF POSITIVE AS (+ / #) SAMPLED FOR BKD.
APPROXIMATE LEVELS OF INFECTION ARE ALSO
REPORTED (EG: 10/50 fields)

**BACTERIAL & NON CULTUREABLE
VIRAL PATHOGENS** (encoded as follows)

First letter = health of fish sampled
A = Live, healthy fish
B = Moribund fish
C = Mortalities

Numbers = material sampled

1 = kidney
2 = hindgut
3 = lesion
4 = gill
5 = ovarian fluid
6 = seminal fluid
7 = liver
8 = blood smear
9 = Other _____

FAXED

Last letter = technique used for:

Primary Isolation

A = Standard culture medium TSA/BHI
B = Cytophage agar
C = KDM-2/SKDM 2
D = BHI + NaCl
E = BHI +NaCl + Blood
F = Other _____

Presumptive Diagnostis

G = Gram stain / Diff Quik/Leishman's Giemsa
H = Standard biochemical/physical testing
I = Other _____

Confirmatory Diagnosis

J = Slide agglutination
K = Direct fluor. antibody test
L = Indirect fluor. antibody test
M = Fluor. Immunoassay
N = Western Blot
O = PCR
P = Other _____

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: 12/03/02

Prior Inspections: 12/02/02
27/08/01
23/05/01

Type of Fish Examined: Hatchery

Water Source: Fresh
Water Treatment: Ozone

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	EIS	VEN	Other
ATS	C31	3 mths. 01G	800,000	(F) Cascade Aquaculture Cascade stock	12/03/02	5	5	5	5	5										
						E24B	E24B	E24B	E24B	E26B										
ATS	C36	3 mths. 01G	800,000	(F) Cascade Aquaculture Cascade stock	12/03/02	5	5	5	5	5										
						E24B	E24B	E24B	E24B	E26B										
ATS	C39	3 mths. 01G	800,000	(F) Cascade Aquaculture Cascade stock	12/03/02	5	5	5	5	5										
						E24B	E24B	E24B	E24B	E26B										
ATS	C44	3 mths. 01G	800,000	(F) Cascade Aquaculture Cascade stock	12/03/02	5	5	5	5	5										
						E24B	E24B	E24B	E24B	E26B										
ATS	C47	3 mths. 01G	800,000	(F) Cascade Aquaculture Cascade stock	12/03/02	5	5	5	5	5										
						E24B	E24B	E24B	E24B	E26B										
ATS	C51	3 mths. 01G	800,000	(F) Cascade Aquaculture Cascade stock	12/03/02	5	5	5	5	5										
						E24B	E24B	E24B	E24B	E26B										

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 faecal material.

Samples Necropsied By: Rebecca Liston

Affiliation: rpc, 921 College Hill Road, Fredericton, N.B., E3B 6Z9, Canada
Telephone: (506) 452-1379

Inspecting Biologist:

Dr. Steve Griffiths, Fish Health Officer (FHPR)
RPC, 921 College Hill Road, Fredericton, N.B. E3B 6Z9 (506) 452-1368

Report Number: FFA-J2255

Date: March 15, 2002

rpc

Client:

Caroline Cherry / Howie Manchester
PNG / Biotech Services
Boot Lagoon Hatchery
Site 306, C-13, R.R. #3
Central Lake Road
Port Alberni, B.C.
V9Y 7L7
(250) 723-4614

RECEIVED

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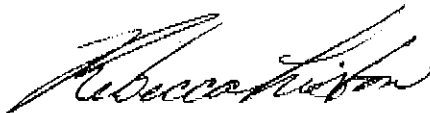
cc: Dorothee Kieser
FAX# (250) 756-7053

Schedule A, List 15 Screening

On February 12, 2002, ATS samples from six tanks were received at **rpc** for Schedule A, List 15 screening.

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 and Poppe, 1998, Department of Fisheries and Oceans publication.

Attached, please find the Fish Health Inspection Report with results to date.



Rebecca Liston
Aquaculture Technician
Food, Fisheries and
Aquaculture Department



Steve Griffiths, PhD.
Group Leader
Molecular Biology
Food, Fisheries and
Aquaculture Department



921 ch College Hill Rd
Fredericton NB
Canada E3B 6Z9
Tel: 506.452.1212
Fax: 506.452.1395
www.rpc.ca

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.
 Type of Fish Examined: Hatchery

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

Current Inspection: 12/02/02

Prior Inspections: 27/08/01
 23/05/01
 17/04/01

Water Source: Fresh
 Water Treatment: OZone

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	C-31	5 weeks 01G	800,000	(F) Cascade Aquaculture Cascade stock	12/02/02	5	5	5	5	5										
						E24B	E24B	E24B	E24B	E26B										
						-	-	-	-	-										
ATS	C-35	5 weeks 01G	800,000	(F) Cascade Aquaculture Cascade stock	12/02/02	5	5	5	5	5										
						E24B	E24B	E24B	E24B	E26B										
						-	-	-	-	-										
ATS	C-40	5 weeks 01G	800,000	(F) Cascade Aquaculture Cascade stock	12/02/02	5	5	5	5	5										
						E24B	E24B	E24B	E24B	E26B										
						-	-	-	-	-										
ATS	C-44	5 weeks 01G	800,000	(F) Cascade Aquaculture Cascade stock	12/02/02	5	5	5	5	5										
						-	-	-	-	-										
						E24B	E24B	E24B	E24B	E26B										
ATS	C-47	5 weeks 01G	800,000	(F) Cascade Aquaculture Cascade stock	12/02/02	5	5	5	5	5										
						-	-	-	-	-										
						E24B	E24B	E24B	E24B	E26B										
ATS	C-50	5 weeks 01G	800,000	(F) Cascade Aquaculture Cascade stock	12/02/02	5	5	5	5	5										
						-	-	-	-	-										
						E24B	E24B	E24B	E24B	E26B										

Note:

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

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Inspecting Biologist:


 Dr. Steve Griffiths, Fish Health Official (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 305, C-13 R.R. #3
Central Lake Road
Port Alberni, B.C.

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

Current Inspection: 01/05/02

Prior Inspections: 09/04/02
12/03/02
12/02/02

Type of Fish Examined: Hatchery

Water Source: Fresh
Water Treatment: OZone

[illegible]

RPC Aquaculture Diagnostics Fish Health Inspection Report

SPECIES ABBREVIATIONS:

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ARG	Arctic grayling	KOE	Kokanee
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BA	<i>Aeromonas hydrophila</i>
WD	<i>Myxobolus cerebralis</i>
CS	<i>Ceratomyxa shasta</i>
PL	Plasmacytoid Leukemia
EBS	Erythrocytic Inclusion Body Syndrome
VEN	Viral Erythrocytic Necrosis
PS	<i>Piscirickettsia salmonis</i>

DIAGNOSTIC METHODS:**CULTUREABLE VIRAL PATHOGEN**

(encoded as follows)

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E = kidney/spleen/pyloric caeca/gill lamellae

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(encoded as follows)

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Last letter = technique used for:

Primary Isolation

A = Standard culture medium TSA/BHI

B = Cytophage agar

C = KDM-2/SKDM 2

D = BHI + NaCl

E = BHI + NaCl + Blood

F = Other _____

Presumptive Diagnosis

G = Gram stain / Diff Quik/Leishman's Giemsa

H = Standard biochemical/physical testing

I = Other _____

Confirmatory Diagnosis

J = Slide agglutination

K = Direct fluor. antibody test

L = Indirect fluor. antibody test

M = Fluor. Immunoassay

N = Western Blot

O = PCR

P = Other _____

Report Number: FFA-J2271

Date: May 14, 2002

Client:

Caroline Cherry / Howie Manchester
PNG / Biotech Services
Boot Lagoon Hatchery
Site 306, C-13, R.R. #3
Central Lake Road
Port Alberni, B.C.
V9Y 7L7
(250) 723-4614

cc: Dorothee Kieser
FAX# (250) 756-7053

rpc

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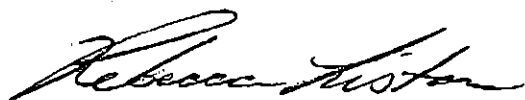
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Schedule A, List 15 Screening

On April 9, 2002, ATS samples from six tanks were received at *rpc* for Schedule A, List 15 screening.

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 and Poppe, 1998, Department of Fisheries and Oceans publication.

Attached, please find the Fish Health Inspection Report with results to date.



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Aquaculture Technician
Food, Fisheries and
Aquaculture Department



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Group Leader
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Tel: 506.452.1212
Fax: 506.452.1395
www.rpc.ca

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

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

Current Inspection: 09/04/02

Prior Inspections: 12/03/02
 12/02/02
 27/08/01

Water Source: Fresh
 Water Treatment: OZone

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	C-31	9 weeks 01G	800,000	(F) Cascade Aquaculture Cascade stock	09/04/02	5	5	5	5	5			5	5		5				
						E24B	E24B	E24B	E24B	E26B			A1AG	A1AG		A1AG				
						-	-	-	-	-			-	-		-				
ATS	C-37	9 weeks 01G	800,000	(F) Cascade Aquaculture Cascade stock	09/04/02	5	5	5	5	5			5	5		5				
						E24B	E24B	E24B	E24B	E26B			A1AG	A1AG		A1AG				
						-	-	-	-	-			-	-		-				
ATS	C-38	9 weeks 01G	800,000	(F) Cascade Aquaculture Cascade stock	09/04/02	5	5	5	5	5			5	5		5				
						E24B	E24B	E24B	E24B	E26B			A1AG	A1AG		A1AG				
						-	-	-	-	-			-	-		-				
ATS	C-43	9 weeks 01G	800,000	(F) Cascade Aquaculture Cascade stock	09/04/02	5	5	5	5	5			5	5		5				
						-	-	-	-	-			A1AG	A1AG		A1AG				
						E24B	E24B	E24B	E24B	E26B			-	-		-				
ATS	C-46	9 weeks 01G	800,000	(F) Cascade Aquaculture Cascade stock	09/04/02	5	5	5	5	5			5	5		5				
						-	-	-	-	-			A1AG	A1AG		A1AG				
						E24B	E24B	E24B	E24B	E26B			-	-		-				
ATS	C-47	9 weeks 01G	800,000	(F) Cascade Aquaculture Cascade stock	09/04/02	5	5	5	5	5			5	5		5				
						-	-	-	-	-			A1AG	A1AG		A1AG				
						E24B	E24B	E24B	E24B	E26B			-	-		-				

Note:

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AND IF POSITIVE AS (+ / #) SAMPLED FOR BKD.
APPROXIMATE LEVELS OF INFECTION ARE ALSO
REPORTED (EG: 10/50 fields)

BACTERIAL & NON CULTUREABLE VIRAL PATHOGENS (encoded as follows)

First letter = health of fish sampled

A = Live, healthy fish

B = Moribund fish

C = Mortalities

Numbers = material sampled

1 = kidney

2 = hindgut

3 = lesion

4 = gill

5 = ovarian fluid

6 = seminal fluid

7 = liver

8 = blood smear

9 = Other _____

Last letter = technique used for:

Primary Isolation

A = Standard culture medium TSA/BHI

B = Cytophage agar

C = KDM-2/SKDM 2

D = BHI + NaCl

E = BHI + NaCl + Blood

F = Other _____

Presumptive Diagnosis

G = Gram stain / Diff Quik/Leishman's Giemsa

H = Standard biochemical/physical testing

I = Other

Confirmatory Diagnosis

J = Slide agglutination

K = Direct fluor. antibody test

L = Indirect fluor. antibody test

M = Fluor. Immunoassay

N = Western Blot

O = PCR

P = Other _____

Report Number: FFA-J2304-1

Date: October 8, 2002

Client:

Caroline Cherry / Howie Manchester
PNG / Biotech Services
Boat Lagoon Hatchery
Site 306, C-13, R.R. #3
Central Lake Road
Port Alberni, B.C.
V9Y 7L7
(250) 723-4614

cc: Dorothee Kieser
FAX# (250) 756-7053

rpc

The Technical
Solutions
Centre

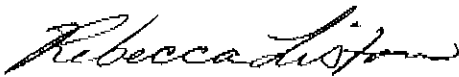
Le centre
de solutions
techniques

Schedule A, List 15 Screening

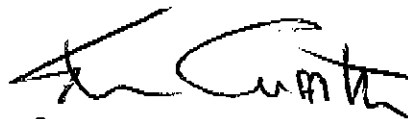
On September 11, 2002, samples from thirteen tanks (2 ½ lots) were received at **rpc** for Schedule A, List 15 screening.

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 and Poppe, 1998, Department of Fisheries and Oceans publication.

Attached, please find the Fish Health Inspection Report with results to date.



Rebecca Liston
Aquaculture Technician
Food, Fisheries and
Aquaculture Department



Steve Griffiths, PhD.
Group Leader
Molecular Biology
Food, Fisheries and
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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: 11/09/02

Prior Inspections: 01/05/04
09/04/02
12/03/02

Type of Fish Examined: Hatchery

Water Source: Fresh
Water Treatment: OZone

[illegible]

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.

Samples Necropsied By: Rebecca Liston

Affiliation: rpc, 921 College Hill Road, Fredericton, N.B., E3B 6Z9, Canada
Telephone: (506) 452-1379

Inspecting Biologist:

Dr. Steve Griffiths, Fish Health Official (FHPR)
RPC, 921 College Hill Road, Fredericton, N.B. E3B 6Z9 (506) 452-1368