

**Newfoundland and Labrador  
Department of Fisheries, Forestry and Agriculture  
Atlantic Salmon Surveillance Plan**

Each company must have a Designated Veterinarian to oversee aquatic animal health surveillance. This surveillance plan is a living document and will be reviewed and updated to reflect ongoing changes in the industry.

**Disease Surveillance**

**Surveillance by Facility/Company Designated Veterinarians**

- Every active Atlantic salmon aquaculture site within Newfoundland must have a licensed Designated Veterinarian oversee a surveillance visit a minimum of **once** per month (every thirty days).
- Samples are submitted to the provincial veterinary diagnostic laboratory in St. Alban's. Please see Annex 1: Sampling Requirements.
- The Aquatic Animal Health Division recognizes that some aquaculture sites in the province are not accessible during certain months of the year due to weather and unsuitable water temperatures.

**Surveillance by the Aquatic Animal Health Division**

The Aquatic Animal Health Division will conduct a risk-based, targeted, active surveillance in addition to surveillance performed by the Designated Veterinarians. The Aquatic Animal Health Division may conduct multiple activities at the time of the surveillance visit. For example, a biosecurity audit and surveillance can occur at the same time.

## **Annex 1**

### **Atlantic Salmon Sampling Requirements**

#### **Designated Veterinarian Monthly Surveillance**

- Virology - pool of organs from a minimum of five moribund fish per site.
  - Organs to be included: kidney, heart, spleen, gill
  - Cell lines: Chinook Salmon Embryo, Epithelioma Papulosum Cyprini and Atlantic Salmon Kidney
- Pathogen specific testing
  - Kidney samples for molecular testing using polymerase chain reaction for Infectious Salmon Anaemia virus. Submitted in duplicate.
  - Kidney impression slides for test Infectious Salmon Anaemia virus using Immunofluorescent Antibody Testing. Submitted in duplicate
  - Kidney samples for archive at minus 80 degrees Celsius.

#### **Aquatic Animal Health Division Surveillance**

##### Quarterly site visits

- Virology - pool of organs from a minimum of five moribund fish per site.
  - Organs to be included: kidney, heart, spleen, gill
  - Cell lines: Chinook Salmon Embryo, Epithelioma Papulosum Cyprini and Atlantic Salmon Kidney
- Pathogen specific testing
  - Kidney samples for molecular testing using polymerase chain reaction for Infectious Salmon Anaemia virus.
  - Kidney impression slides to test for Infectious Salmon Anaemia virus using Immunofluorescent Antibody Testing.
  - Kidney samples for archive at minus 80 degrees Celsius.
- Bacterial screening
  - Bacteriology culture using blood agar, Selective Kidney Disease Medium and Tryptic Soy Agar
  - Kidney impression slides to test for Bacterial Kidney Disease using Immunofluorescent Antibody Testing.
- Histology screening: spleen, kidney, heart, gill and liver.