



# rpc

## SCIENCE & ENGINEERING

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## Aquaculture Services

RPC has been providing services to the aquaculture industry since 1984 when the New Brunswick aquaculture industry was in its early stages. Since that time, we have developed breakthrough innovations (DNA traceability, eDNA research, fish health diagnostics, probiotics) and were the first to identify the infectious salmon anemia virus (ISAV) as the causative agent of a disease outbreak in Atlantic Canada in the mid to late 1990's. Today, RPC continues to provide an ever-increasing number of services to help support the growth and development of the industry in NB, Atlantic Canada, and other Canadian provinces.

### Fish Health Diagnostics

- Standard bacteriology
- Bacterial identification/Antibiotic susceptibility
- Necropsy/Examination
- Microscopy/IFAT ISAV/BKD
- Pathogen screening & surveillance (PCR, RT-PCR, qPCR, qRT-PCR)
- Pathogen characterization
- Na<sup>+</sup>/K<sup>+</sup>, ATPase testing
- Cell culture/virology

### Fish Health Management

- Consultations to familiarize with farm history
- Fish health assessments (field, diagnostic and site inspections for pre-certified/certified facilities)
- Disease screening for all life stages
- On-site post mortem service
- Personalized service including on-call service, explanation of diagnostic tests, services, and reports
- US Title 50 inspections

### Broodstock Screening

- Prescreening and screening at time of spawning according to provincial requirements
- On-site post mortem service
- Flexible scheduling and rapid turnaround time of results

### Contact Us

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For more information on our aquaculture services please contact:

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### Molecular Biology R&D

- Genotyping - Stock development/traceability
- Bacterial & viral characterization/typing/screening
- Probiotic development
- Vaccine development & testing

### Environmental Monitoring

- Water quality (organic, inorganic & trace metals)
- Tissue analysis (organic residues & trace metals)
- Bacterial community profiling
- Aquatic toxicity testing
- eDNA: used to assess and monitor bacterial populations in the environment
- Effluent treatment validation

### Engineering

- Testing & data collection (for vessels, fish cages, etc.)
- Field tests (strain gauging, pressure and temperature, etc.)
- Material testing/failure analysis/metallurgical investigation
- Production optimization/troubleshooting

### Food & Feed Product Analysis

- Food microbiology screening (salmonella, listeria, etc.)
- Food chemistry (nutritional testing, fat, protein, etc.)