CANADA-CHILE
COLLABORATIVE
AGREEMENT
ON
ENVIRONMENTAL
EFFECTS
MANAGEMENT OF
AQUACULTURE



# Alex Brown Aquaculture Planning Consultant

### **BACKGROUND**

- In 1991 the Chilean Fisheries and Aquaculture Law was passed. This was followed in 1994 by the Chilean Environmental Protection Law
- Similarly, Fisheries and Oceans Canada has developed a strong regulatory capacity related to Environmental Assessment frameworks
- Both countries have similar environments and species under aquaculture production
- Canada and Chile compete for the same markets, where increases in demand for sustainable aquaculture products can benefit both countries

### **BACKGROUND**

- Both countries recognise the importance of consumer confidence and the benefits of cooperation in achieving this goal
- Failure to address public confidence has lead to lost economic, social and environmental opportunities for all aquaculture producing nations
- Canada and Chile share issues of common concern related to the economy and environment with respect to aquaculture

### **Rational**

- In 2004 Chile organizad an APEC workshop on Environmental Principles and Policies in Aquaculture Administration, where Canada was co-chair
- The exisiting Collaboration Agreement was developed under the Canada – Chile Agreement on Environmental Cooperation which is sub-agreement to the Canada – Chile Free Trade Agreement
- Implementation Schedule June 2005- April 2006
- Consistent with APEC, UN and other international objectives

### The Collaborative Agreement

#### **OBJECTIVES**

- To facilitate exchange of personnel and information on environmental management
- To develop a work plan identifying key areas for cooperative work
- To analyze environmental management practices related to aquaculture
- To share information through organizations such as APEC, UNFAO and SOTA

#### **WORK PLAN**

- Science Based Management Frameworks
- Modeling and Monitoring
- Environmental Impact Assessment
- Integrated Coastal Zone Management
- Management of Exotic Species and Escapes
- Stakeholder Consultation
- Workshop

### Personal Exchange

- Paula Moreno Chile
  - 01/06/05- 30/11/05
- Allison Webb Canada
  - **15/07/05- 15/01/06**
- Joseph Crocker
  - Canada
    - **15/10/05-15/04/06**



### Science Based Management Frameworks

- Improvements to Canadian and Chilean management frameworks (sulfide monitoring, certification programs)
- Proposal for APEC to develop a regional Strategy Sustainable Aquaculture

### Modelling and Monitoring

- Modelling Workshop (August 2005)
- Workshop (March 2006)
- Review of RAMA Certification project in Chile
- Review of Decision Support System in Canada
- DEPOMOD Workshop- St. Andrews, Canada (July 2005)

### Environmental Impact Assessment

- Technical guide for sulphide measurements, monitoring and evaluation
- Revision of environmental Impact Statements and reviews in Canada and Chile for finfish and shellfish aquaculture

### Integrated Coastal Zone Management

 Participation in work related to Integrated Coastal Zone Management in Chile and Canada and review of existing projects

- Management of Exotic Species and Escapes
  - Involvement in the Cooperation Agreement Chile-UICN for addressing exotic species in aquaculture
  - Involvement in Regulatory modification concerning imports of exotic species to Chile
  - Involvement in the exotic species importation request process in Chile
  - Review of the APEC Management Framework for Introduced Marine Pests, co-developed by Chile and Australia

#### Stakeholder Consultation

- Participation in the National Habitat Management Working Group on Aquaculture in Canada
- Attendance to meetings with farmers associations in both countries; this also included NGOs
- Meetings with fisheries and aquaculture authorities

### Workshop

#### Others

- Travel to mussel and salmon facilities in Chile
- Travel to Atlantic Canada to participate in National conference for aquaculture and DFO National Habitat Management Working Group for Aquaculture

### **Conclusions**

- Canada has been recognized as a world leader in environmental effects management and research. A similar approach has been recognized in Chile however requires better communication
- The environmental management of aquaculture in Chile is recognized as effective to achieve sustainable aquaculture production
- Further opportunities exist for bilateral collaboration in the areas of environmental effects research, in APEC and UN initiatives at which Canada and Chile have been involved.

### **Next steps**

- Extension of the collaborative agreement
- Co-development of the APEC Strategy for Sustainable Aquaculture
- Development of mechanisms for mutual recognition of environmental regulations
- Undertake cooperative reserch
- Development of a bilateral / open network on Sustainable Aquaculture Management
- Explore other areas of cooperation, such as Marine
   Protected Areas and recreational fisheries management

## Gracias

