



AIW 2017

# AgriMarine Floating Closed Containment System Real World Experience



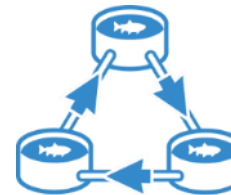
ENGINEERING



TECHNOLOGIES



AGRIMARINE  
SYSTEM™



RAS



AQUAPONICS

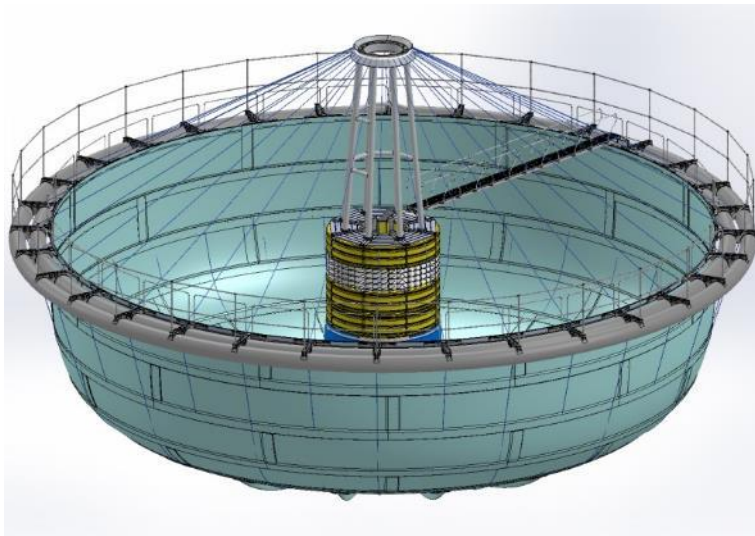
# About AgriMarine Technologies Inc.

**ATI is a leading aquaculture and water technologies expert with substantial expertise in the global aquaculture industry**

- ATI develops sustainable, innovative systems and solutions for commercial aquaculture applications around the world.
- ATI offers a range of consulting and design-build services to new and existing projects.
- In the aquaculture industry since 1980's, operating salmon farms and hatcheries since the 1990's, designing sustainable technologies since 2000.



# AgriMarine System™



## Solutions for:

- Sea lice
- Toxic algae blooms
- Low dissolved oxygen water
- Dead zone water
- High water temperature
- Ideal for post-smolt and full grow-out in special cases like warm lakes



# Real World Experience with AgriMarine System™

- Lake installation: Lois Lake, Powell River, British Columbia, Canada
- 6 AgriMarine System™ tanks installed with associated life support systems (18,000 M3 total)
- RAS Hatchery Plus Legacy Net Cages
- Floating Raceway Demonstration (3,000 M3)





# West Coast Fish Culture Lois Lake BC



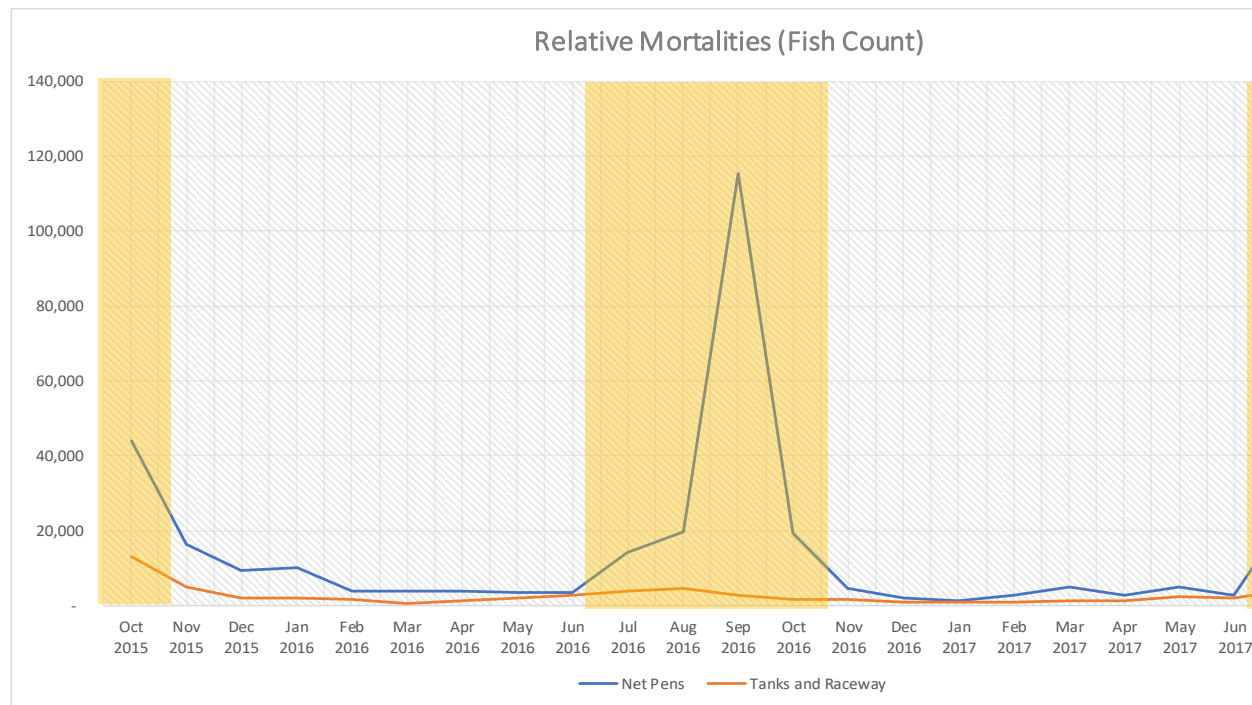
## Key Features:

- Small farm with a history of innovation (First RAS Hatchery on the coast of BC)
- 1200 MT annual production of Steelhead
- Gradually moving from nets to tanks due to summer water temperature related high mortality rates
- Vertically integrated with RAS hatchery and own processing plant



# West Coast Fish Culture Lois Lake BC

One Slide that Says it all!– Why we use tanks at Lois Lake



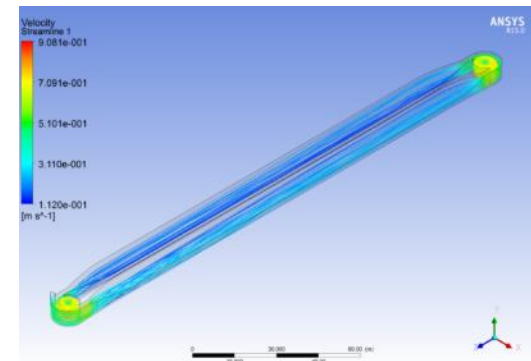
2015-2017 Morts (Fish Count) – Nets vs Tanks



# Lois Lake, BC: Floating Raceway Technology



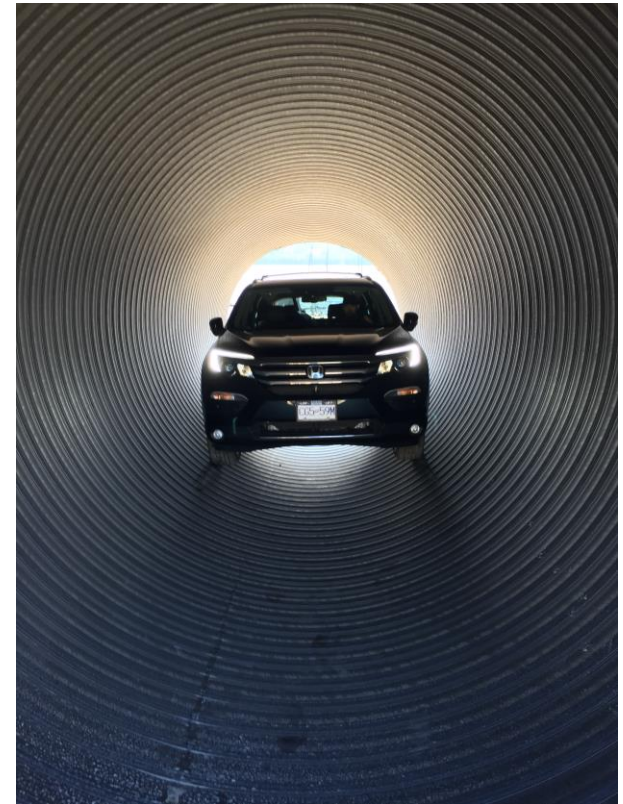
- Floating raceway system that can be deployed in both deep and shallow bodies of water, such as lake, reservoirs, sheltered inlets, rivers, man-made ponds and rehabilitated gravel pits.
- Easy to implement, affordable systems
- Efficient use of limited water resources
- Control of dissolved oxygen levels. Temperature and water velocity
- Potential for Biofiltration and Removal of solid waste



# Lois Lake, BC: Floating Raceway Technology



- Simple cost effective design allowed for rapid field deployment. 6 weeks from start to finish, including design!
- Great potential for providing lower cost of containment in lower energy sites



•Bigger flows come with some learning in field work with larger parts !



# China, Benxi: AgriMarine System™

Project details include:

- Installation and operation of six floating rearing tanks
- The unique features of the tanks allowed for year round operation despite surface temperatures of -40 C in winter and 30 C in summer



# Norway, Smøla: Nekton Salmon AS

Project details include:

- **AgriMarine System™** tanks utilized in a pilot project for Post-smolt production
  - Extension of hatchery 200-700 grams
  - Reduced exposure to sea lice
  - Optimized growth
  - Shorter production time in the sea
  - Accelerated crop cycle

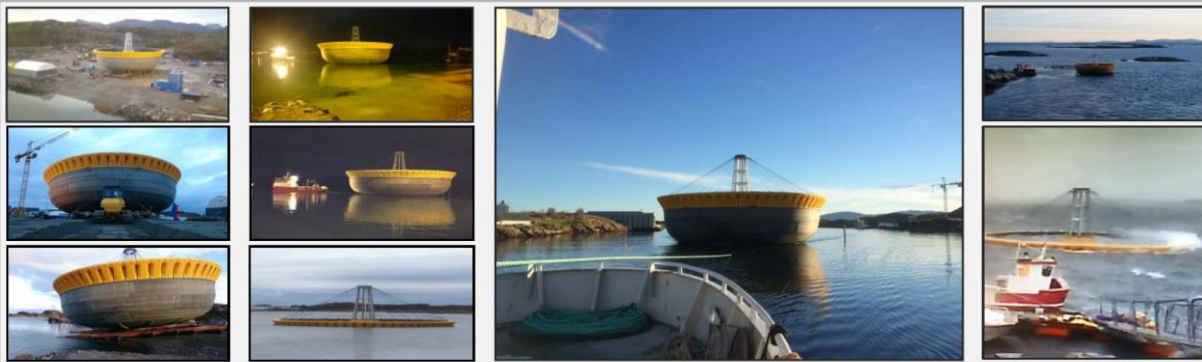




# Real World Experience with AgriMarine System™

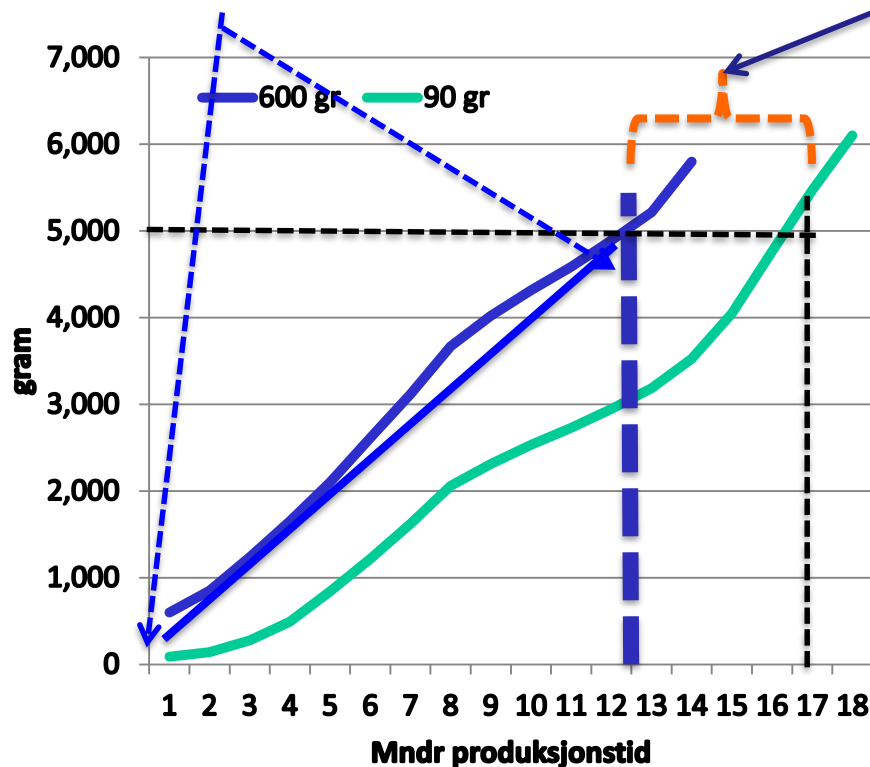


- Assembled at Averøy autumn 2015
- Deployed during storm in December 2015
- Hurricane Tor tested 30th January 2016



## Kinder surprise...

Experience 2017 closed containment **better than expected**



From 220 til 5000 grams in 12 months!

- Lower start weight
- Quicker growth





# Thank you

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