

## **ACCOMPLISHMENTS**





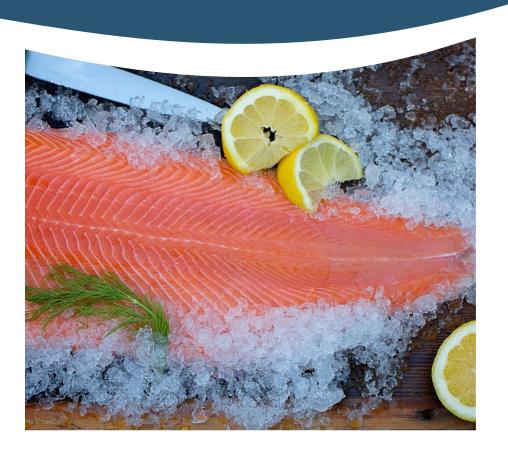


- 1<sup>st</sup> Land-Based Atlantic salmon producer in USA
- Largest aquaponic producer in the world
- Producing over 100,000 lbs. of food per 1 GPM supplied to production and processing systems
- Zero discharge from production and processing



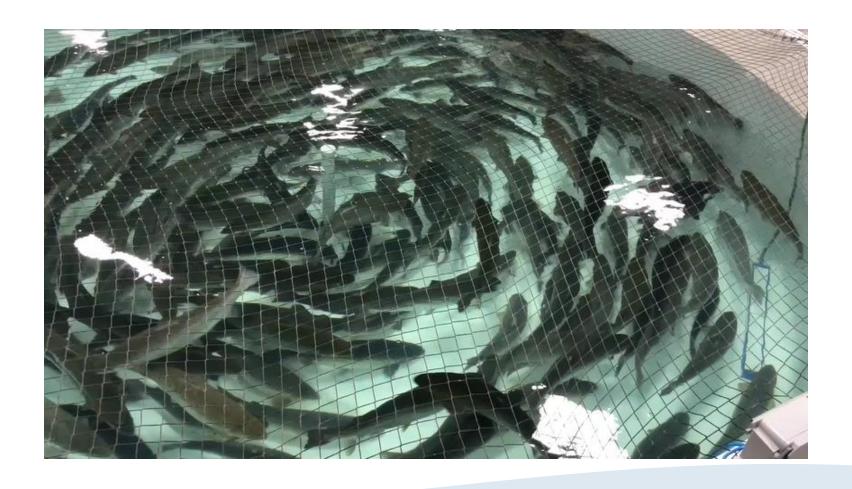
# FILLET QUALITY IS QUINTESSENTIAL







## FINISHING TANK







## RESEARCH REQUIRED NOW

- Verify the threshold of human detection of geosmin in Atlantic salmon
  - 400 ng/Kg (Davidson et al., 2014)
  - Variability with Super-Tasters



## **INDUSTRY PRACTICES**

#### TO MITIGATE OFF-FLAVOR

- Finishing process
  - Take salmon off feed & purge in place or move them to purge tank
  - Flush purge tank with geosmin-free water
  - Disinfect purge system surfaces between cohorts
- Supply feed ingredients that reduce off-flavors in fish at harvest (does this really work?)
- Technologies & practices to prevent geosmin from being produced in RAS
  - Cleanliness, reduce BOD / improve water quality in RAS, biome selection
- Technologies to remove geosmin from purge or RAS water
  - Example, AOP by Exciton Clean Water Treatment

### WELCOME JACK HOLLAND

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