

Aboriginal Aquaculture in Canada Initiative

May 30, 2018

Little Current, Ontario



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Welcome & Thanks for being here!!



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- Nicholas Huber, Waubetek



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Presenters for May 30 Workshop

- **Steve Naylor**- Aquaculture Specialist –OMAFRA
- **Jay Barnard** – CEO & Corporate Chef – Freshwater Cuisine
- **Nikki Manitowabi** – Business Development Specialist – Wikwemikong Development Commission
- **Rolly Frappier**- Owner – Micro Hatcherries Inc.



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Aboriginal Aquaculture in Canada Initiative (AACI)

- Established 2013 –14; Support for Aquaculture growth will continue.
- Funded by SPI (INAC); Administered by DFO.
- Facilitated by Waubetek for Central Canada (Ontario, Manitoba, Saskatchewan) and now Alberta.....
- Aquaculture Development support position has been confirmed for another 5 years.
- Details surrounding potential funding program should be known soon.



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Purpose

- The Purpose of the Initiative is to support Aboriginal involvement in the aquaculture industry with emphasis on economic, environmental and social sustainability.



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Waubetek's Aquaculture Services

- Assist in identifying new or expanding opportunities.
- Identify new innovations, best practices and approaches.
- Advisory on the implementation of early-stage aquaculture business development plans.
- Identify joint venture opportunities and partnerships.
- Advisory services specific to aquaculture related fisheries and support.
- Assist with flagship business development projects.
- Assist with business improvement projects.



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Main Focus

- This program is designed to allow the Aquaculture Development Officer to be a resource, asset and ally which can provide support for nearly any aquaculture related activity within any stage (Pre-Development-Post Operational).
- Main focus is to ensure the best interest of the community is always acknowledged and to ensure all projects are feasible and sustainable.
- I am here for you & I am Free for you 😊



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Who Can Apply?

- Indigenous/Aboriginal communities;
- Aboriginal for profit and not-for-profit corporations, partnerships, associations, co-operatives and institutions which are majority owned and controlled by Aboriginal people;
- Aboriginal-owned businesses, partnerships, and joint ventures.



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Most Recent Projects within the AACI Program

Moose Cree Aquaponics Facility (Ontario) – Detailed Design Phase

This facility is designed specifically to the needs and population of the community and will provide;

- Approx. 1,000 fish per month at approximately 1 kg
- Approx. 5,400 heads of lettuce, per month, basil or Kale
- Approx. 1,225 kgs per month of Tomatoes and or Cucumbers

This project has the ability to impact the community by providing;

- Fresh and nutritious fish and vegetables on a year round basis leading to healthier diets
- More reasonable prices for fresh fish and vegetables
- Enhanced food security and self sufficiency
- Training and employment opportunities
- Integration into the schools



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Most Recent Projects within the AACI Program

Myera (Manitoba) – Expand from demonstration level to commercial scale business operation

- Myera is a land based Arctic Char rearing recirculation facility, that uses nutrients to grow vegetables and Algae.
- Arctic Char is grown for food production with the establishment of brood stock for egg production.
- Vegetables are for food production and fodder for livestock.

This project assist in promoting;

- Healthy living and life styles, healthy eating, diets and food delivery



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Most Recent Projects within the AACI Program

New North Fisheries (Ontario) – Pilot Project, Feed

- Funds were used to assist with the cost of feed for the growing cycle of the Whitefish while in a submersible net pen facility.

This project will;

- Reduce commercial fishing pressure to ideally allow for some population recovery.
- Provide a source of surplus hatched fry for restocking purposes.
- Provide a year round dependable source of fresh Lake Whitefish for domestic markets
- Provide full time employment to an otherwise seasonal capture fishery.



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Most Recent Projects within the AACI Program

Wikwemikong Development Commission (Ontario) – Business plan and Feasibility Study

- Through AACI Funding a Specific technical feasibility work was conducted, site characteristics studies economic feasibility studies and business plan were produced. Assessment and studies were also done on the various submersible cage technologies.
- Additional sites around Manitoulin are being looked at with a secured Rainbow trout markets in tact. Focus on value chain opportunities.
- Great employment opportunities for a community that already knows fish farming very well.
- In a position to be leaders in off shore aquaculture with specific system technology that can handle the off shore weather conditions.



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Aboriginal Aquaculture Law Templates and Supporting Documents

- Aboriginal Aquaculture Law template to be developed with a consultation process which will be available throughout Central Canada.
- Establishing an Aboriginal Aquaculture Licensing process template pertaining to indigenous and non-indigenous aquaculture ventures operating within traditional territories.
- Environmental Standards, sampling procedures and reporting templates.
- Best Management Practices templates.



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Workshops/Presence

- 2017-2018 Fiscal we hosted or participated in 7 Full day workshops throughout Ontario/Manitoba.
- 2017-2018 Fiscal we arranged 6 Mini or half day workshops in either communities or other locations.
- Allot of communities or individuals are not familiar with Aquaculture and were trying to change that through the means of workshops and discussions.



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Aquaculture

- The cultivation of aquatic animals and plants, especially fish, shellfish and seaweed, in natural or controlled marine or freshwater environments; underwater agriculture.



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Aquaculture

- Aquaculture occurs across Canada from coast, to coast to coast.
- The largest and most prominent aquaculture sectors in Canada are Atlantic salmon, mussels, trout, oysters and clams. Other species are farmed as well.
- Canada's aquaculture industry is an important employer and economic driver in many coastal, rural and Aboriginal Communities.

Cite- Canadian Aquaculture Industry Alliance_ <http://www.aquaculture.ca/>



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Types & Forms of Aquaculture

- Open Net Pen
- Land based (RAS, Flow through systems, Pond Culture)
- Rehabilitation
- Put and Take/Pay to fish
- Aquaponics
- Commercial/Commodity/Live Markets
- R&D
- Niche (Organics)
- Supplying Fingerlings to the on growers
- Food Security
- Other.....



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Indigenous Communities are Poised for Growth

- The industry in Central Canada is ready for expansion.
- Aboriginal Communities are in a unique position to benefit from sustainable aquaculture development due to their aquatic resources, rights, and special access to aquaculture development sites.



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Contact Information

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Thank you



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