# UNDERSTANDING AQUATIC FARMING ADF&G PERMITTING

SUSTAINABLE SOUTHEAST PARTNERSHIP KELP AND OYSTER FARMING WORKSHOP

HOSTED BY SPRUCE ROOT COMMUNITY DEVELOPMENT

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## WHAT ARE THE WAYS TO OPERATE AN AQUATIC FARM IN ALASKA?

### 1. Aquatic Farm Operation Permit – Natural Set

• Allows for the collection of natural setting species, that are listed on the operation permit, for sale. Only species that were preexisting or have naturally settled on the site or gear may be harvested.

### 2. Aquatic Farm Operation Permit – Cultured

- Allows for the sale of species, listed on the operation permit, that are grown from:
  - Hatchery/nursery produced seed or
  - from juvenile wild stock organisms collected through a stock acquisition permit.

#### MAJOR STATE, FEDERAL, LOCAL AUTHORIZATIONS Federal Local State NOAA City ADF&G DNR USACE NMFS or Borough OPERATION, DEC Ordinance LAND In-water Marine TRANSPORT, Planning Mammal, ACQUISITION DLEASE Structures Permit **PERMITS** ESA, EFH Special Area **USFWS** Permit Wildlife Refuge

## ALASKA DEPARTMENT OF FISH AND GAME



#### MISSION

To protect, maintain, and improve the fish, game, and aquatic plant resources of the state, and manage their use and development in the best interest of the economy and the well-being of the people of the state, consistent with the sustained yield principle.

1988 Aquatic Farm Act Implementation - AK Statutes 16.40.100-199

Aquatic Farming Regulations – 5 AAC 41.200-41.400

## ARTICLE 2. AQUATIC FARMING Section 16.40.105 CRITERIA FOR ISSUANCE OF PERMITS

- (1) The physical and biological characteristics of the proposed farm or hatchery location must be suitable for the farming or the shellfish or aquatic plant proposed;
- (2) The proposed farm or hatchery may not require significant alterations in traditional fisheries or other existing uses of fish and wildlife resources;
- (3) The proposed farm or hatchery may not significantly affect fisheries, wildlife, or their habitats in an adverse manner;
- (4) The proposed farm or hatchery plans, and staffing plans must demonstrate technical and operational feasibility; and
- (5) The proposed farm site may not include more than an insignificant population of a wild stock, on the site, of a shellfish species intended to be cultured.

### 5 AAC 41.240 REVIEW AND DETERMINATION CRITERIA

- 1. Physical and biological characteristics of the location are suitable for culture.
- ✓ Protected Exchange rates, water temps, currents, salinity, food availability, light, and suspended sediments
- ✓ For Suspended culture Water depth is sufficient to prevent gear from grounding and impacting benthos under structures
- ✓ Health and abundance of eelgrass and kelp beds maintained
- ✓ Operation not located with 300 ft of mouth of anadromous fish stream

- 2. Proposed operations does not significantly alter an established use.
- 3. Operations compatible with fish and wildlife resources in the area.
- ✓ Predator control methods have been designed to minimize impacts on non-targeted fish and wildlife.
- ✓ No adverse impact to seabird colonies, sea lion haulouts / rookeries, seal haulouts and pupping areas, walrus haulouts.
- ✓ No adverse impacts to endangered and threatened species recovery and habitat protection efforts.

## 5 AAC 41.240 REVIEW AND DETERMINATION CRITERIA

- 4. For on-bottom culture proposals for all other indigenous species where wild stock exists, the commissioner has offered an opportunity to harvest species.
- 6. The proposed aquatic farm site contains an insignificant population of the species intended for culture as determined by 5 AAC 41.235

- 5. The proposed aquatic farm operation and development plan demonstrates feasibility by describing:
- ✓ Improve productivity of species intended for culture above what would occur in natural conditions.
- ✓ Any support facilities, culture gear, and anchoring systems will be installed and maintained.
- ✓ The projected harvest rotation schedule is consistent with the life history of the species intended for culture.

### ADF&G PERMITS

To operate an aquatic farm or hatchery including acquire, possess, and sell aquatic farm products.

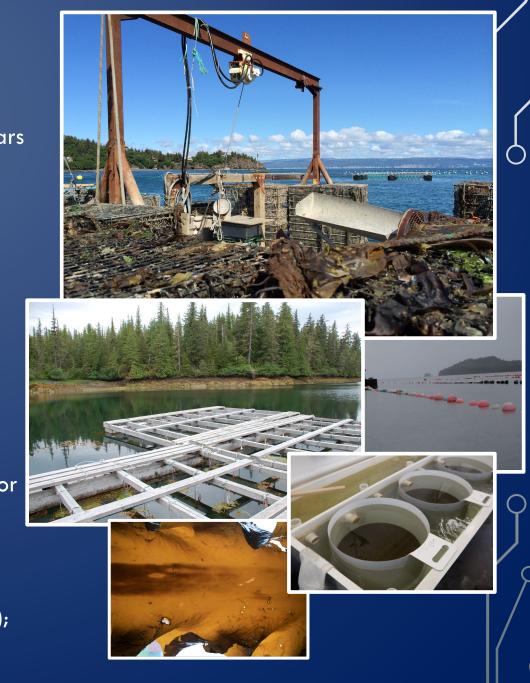
2. Stock Transport Permit (STP) - 1 year

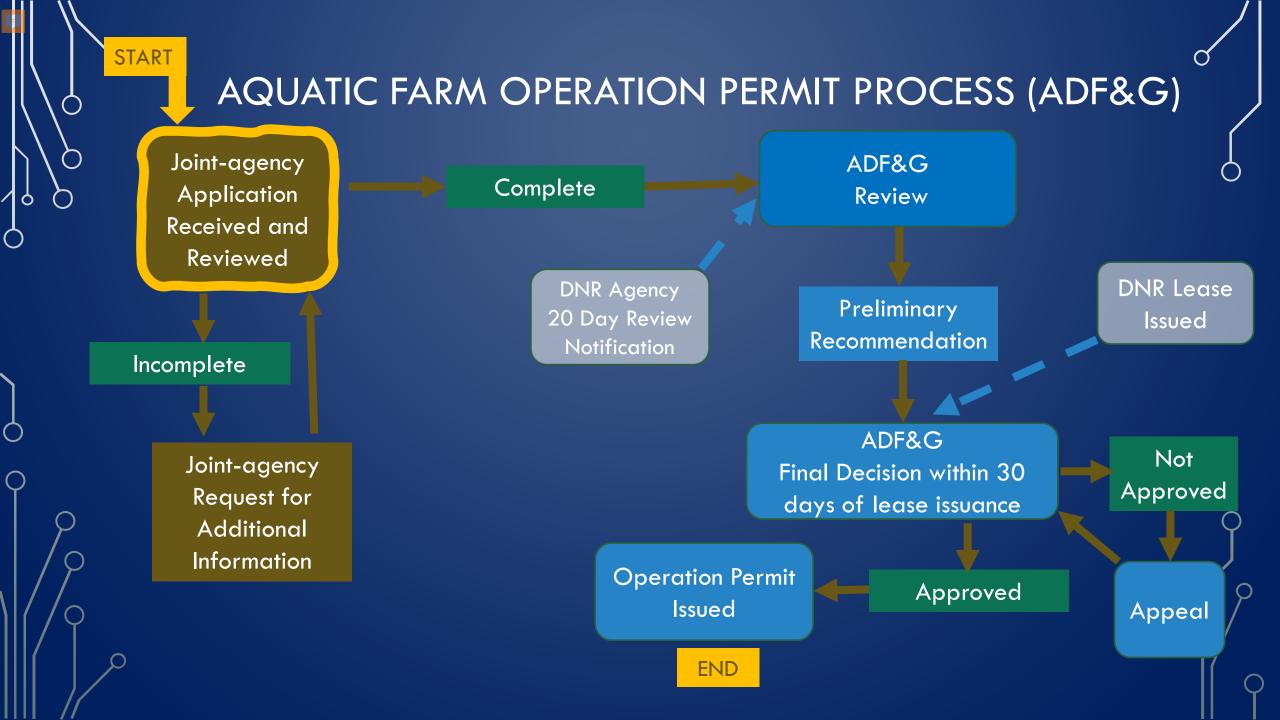
To transfer stock to, from, or between an aquatic farm, hatchery, or stock acquisition site (waters of the state)

3. Aquatic Stock Acquisition Permit (ASP) - 1 year

To collect **wild stock** from outside an aquatic farm site for the purpose of providing broodstock or seed stock to an aquatic farm or hatchery intending to acquire wild stock for culture.

**Fees:** a. if culturing clams an on-bottom survey is needed to assess clam abundance (subtidal - \$5000/day) and intertidal (\$2000/day); b. renewal or transfer of operation permit (\$100)





## WHAT MATERIALS ARE REQUIRED TO APPLY FOR AN AQUATIC FARM OPERATION PERMIT?

- 1. A COMPLETED JOINT-AGENCY APPLICATION
- 2. ADDITIONAL DOCUMENTS
  - a. Project Description
  - b. General Location Map (USGS)
  - c. Detailed Location Map (NOAA CHART)
  - d. Site Plan Map
  - e. Cross Sectional Diagram
  - f. Detailed Drawing
  - g. Operation and Development Plan

#### AQUATIC FARM PROGRAM APPLICATION

You are encouraged to submit a completed application as early in the filing period as possible. The 2012 application form must be used and properly completed before state agencies can process your project. An incomplete application will not be processed. A checklist is included to assist you in meeting this requirement. The best way to facilitate the review of your application is to schedule a pre-application meeting with DNR and ADF&G to discuss your project. The original application including attachments and all required fees must be delivered and physically present in the Alaska Department of Natural Resources office no later than 5:00 p.m. on April 30<sup>th</sup>.

The project location is in: (Check one) Southeast Alaska Southcentral Alask (Southeast = Projects south of or in the Yakutat area / Southcentral = Projects north of Yakutat

A. APPLICANT INFORMATIO	
	If you live in a remote area please provide a contact per (name, phone & email address) who can be easily reach
Name	
Business Name (If Applicable)	Contact Name
Mailing Address (PO Box or Street Add	Contact Phone Number
City State	Zip Business Partner Name (If applicable)
Email Address	Business Partner Email Address (If applicable
Home/Office Phone Cell Pl	Business Partner Phone (If applicable)



- 1. Shows <u>improvement in productivity</u> of the organism <u>above what</u> <u>would occur in natural conditions</u>
- 2. Summarizes <u>installation and maintenance</u> of support facilities / culture gear/ anchoring systems
- 3. Schedule is <u>consistent with life history</u> of species intended to be cultured.



## OPERATION AND DEVELOPMENT PLAN: PART A

- Staff Plan Number of days and staff needed to operate
- Site Monitoring/Maintenance
  - Gear storage off season
  - Anti-fouling techniques
  - Management of incidental species
- Record Keeping physical and environmental
- Harvest frequency and methods
- Seed Acquisition

### OPERATION AND DEVELOPMENT PLAN: PART B

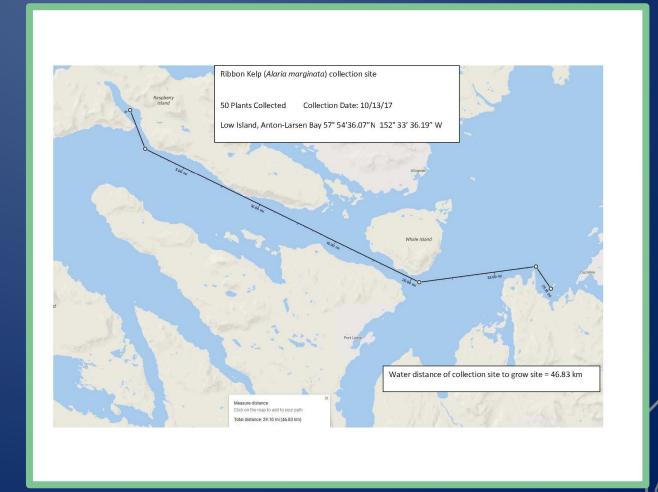
#### AQUATIC FARMING OPERATION AND DEVELOPMENT PLAN - PART B

Complete one operation and development plan for each species using a reasonable expectation of what you believe is possible for each year of the 10-year lease and operation permit. This is a projection to help you visualize a 10-year farming plan. By the end of year 5, sales must meet or exceed the commercial use requirement and be maintained or increased in the remaining years of the lease. Commercial use equals the annual sum of farm sales from all species combined. An amendment is needed to make any significant changes to gear or acquired numbers.

Name DNR A		DNR ADL	NR ADL		ADF&G Permit No.		Species (scientific and common name)		
	Installation Schedule			Seed Acquisition		Projected Harvest and Sales			
Calendar	(What you plan to install each year; type, number, and dimensions/poundage; needs to correspond with diagrams and drawings. Note if removed annually.)			# of <u>Hatchery</u> Produced Seed	OR # of Seed from Natural Set on Gear				
Year	Support Facilities <sup>1</sup>	Equipment/ Gear <sup>2</sup>	Anchoring Systems	Total seed to be acquired (shellfish) or total feet of line (aquatic plants).	or Wild stock Only for indigenous species to be collected for farm. Not broodstock.			# of Organisms or # of Pounds	
(Year 1) 20						\$			
(Year 2) 20						\$			

## CONSIDERATIONS FOR KELP AQUATIC FARMING GENETIC PRECAUTIONARY APPROACH

To minimize the risk of genetic or disease impacts on wild populations, hatcherycultivated macroalgae seedstock may only be out planted within 50 km (by water) of the broodstock (parent) collection site.



## MORE PERMITS! WHAT ELSE DO YOU NEED <u>AFTER</u> YOU GET YOUR AFOP?

- Check with US Army Corps of Engineers
- Check with Local Authorities (City and Boroughs/Parks)
- Check with DEC
- F&G Aquatic Stock Acquisition Permit for wild stock collection to facility
- F&G Stock Transport Permit for transport from facility to facility

## SEED SOURCES

 Out-of-state certified seed sources and instate approved seed distributors can be found online at

http://www.adfg.alaska.gov/static/license/aquaticfarming/pdfs/seed\_sourc es.pdf

• Please check this list before applying for a stock transport permit!

SOURCES FOR SEED PURCHASE							
INSTATE SHELLFISH HATCHERY AND SEED DISTRIBUTION PROVIDERS							
Contact Information	Facility Name	Water Body or Location	Species	Life Stage	Broodstock Origin	Approval Expiration Date	
Alutiiq Pride Shellfish Hatchery  Manager: Jeff Hetrick  PO Box 369, Seward, AK 99664    h@seward.net   907.224.5181	Alutiiq Pride Shellfish Hatchery	Seward, AK (land-based)	Pacific oyster Magallana gigas	Juvenile	Willapa Bay, WA	7/8/2024	
Blue Starr Oyster Company Manager: Eric Wyatt PO Box 369, Craig, AK 99921 alaskan@bluestarroysters.com 406.235.6059 (phone) / 907.401.1372 (cell)	Blue Starr Oyster Company	Tokeen Bay	Pacific oyster Magallana gigas	Juvenile	Mixed West Coast	6/18/2022	
Eagle Shellfish Farm Manager: James Aquiar PO Box 2211, Cordova, AK 99574 jamesaguiar804@gmail.com 907.253.3481 (phone)	Eagle Shellfish Nursery	Simpson Bay	Pacific oyster Magallana gigas	Juvenile	Mixed West Coast	10/9/2023	

## YOU ARE A FARMER! NOW WHAT?

- Annual report is due January 31 each year.
- Any changes to add species, gear, or acreage require an amendment.
- Keep in touch with support groups
  - Alaska Shellfish Growers Association (includes aquatic plant farmers)
  - UAF Sea Grant
  - NOAA

# WHAT IS THE CURRENT BREAKDOWN OF ISSUED AQUATIC FARM PERMITS?

Туре	Number	Percent	Acres	Percent
Shellfish Only	46	60%	357.06	41%
Kelp Only	13	17%	267.2	31%
Combination	14	18%	248.89	28%
Hatcheries	4	5%	0.44	0%
Total	77		873.59	

# WHAT IS THE CURRENT BREAKDOWN OF PENDING APPLICATIONS?

Туре	Number	Percent	Acres	Percent
Shellfish Only	6	19%	87.5	7%
Kelp Only	21	66%	806.36	61%
Combination	5	16%	431.11	33%
Hatcheries	0	0%	0	0%
Total	32		1324.97	



- Research your location!
- Use the checklist in Joint Agency Application for required materials and mapping requirements. <u>Consistency!</u>
- If unsure, <u>reach out for help!</u> Many agencies are here to help negotiate the process.
- <u>Be responsive</u> and available to application questions. Incomplete applications lead to delays.

## **QUESTIONS?**

For additional assistance, please contact:

Aquaculture Section/Division of Commercial Fisheries

Alaska Department of Fish and Game

P.O. Box 115526, Juneau, AK 99811-5526

Aquatic Farming email: dfg.dcf.aquaticfarming@alaska.gov

(907) 465-4724 - michelle.morris2@alaska.gov

(907) 465-4235 - <u>garold.pryor@alaska.gov</u>

Fax: (907) 465-4168



Photo by Nick Mangini

ADF&G:

http://www.adfg.alaska.gov/index.cfm?adfg=fishingaquaticfarming.main

**APPLICATION:** 

https://www.adfg.alaska.gov/index.cfm?adfg=aquaticfarming.general opening