



ALASKA'S AQUATIC FARM PROGRAM

Application Opening Period
January 1st through April 30th



PART II INSTRUCTIONS AND APPLICATION



1. Answer ALL questions using the blanks provided or include additional pages.
2. If additional pages are included, write the corresponding question number from the application on the appropriate page(s).
3. Type or print answers clearly in black ink.
4. An agent cannot sign the application form for the applicant; the applicant must submit the application with an original signature.
5. **STATE AGENCY FEES:** Mail the applicable fees with the completed application packet to either DNR Office:

Department of Natural Resources
Aquatic Farm Application
550 W. 7th Avenue, Suite 1260
Anchorage, AK 99501-3557

Department of Natural Resources
Aquatic Farm Application
400 Willoughby Ave. Ste 400
Juneau, AK 99801

Application Fee: A non-refundable application fee paid to **Department of Natural Resources** (ADNR) is currently set at **\$100** for individuals or **\$200** for corporations.

Survey Fee: If your proposed project involves on-bottom clam farming techniques, **Alaska Department of Fish and Game** (ADF&G) will need to conduct a survey to determine the abundance of wild stock shellfish at the proposed site. The fee for the survey is **\$2,000**** for an intertidal on-bottom site and **\$5,000**** for a subtidal on-bottom site. Mail a separate check for this survey, made out to ADF&G, and submit it along with the completed application packet. **Note: The actual cost may vary by site, please refer to Part I.

Other Fees: A summary of all state fees applicable to aquatic farms sites can be found in Part I.

6. **The original application including attachments and all required fees must be delivered and physically present in either of the Alaska Department of Natural Resources offices listed above by 5:00 p.m., on the last day of April.**
7. If you are applying for more than one site and the boundaries of any additional sites are more than three nautical miles apart, you must submit a separate application for these sites. Alternate sites with a distance of more than three nautical miles apart will not be accepted on the same application.
8. Please Note: The aquatic farm review is for the specific project that you identify in your application. If you decide to change the location or increase the footprint of your operation during the review period, processing of your application will stop, and you will need to re-apply during a subsequent filing period.

For assistance completing the application, please call John S. Thiede (ADNR) at (907) 269-8543 or Cynthia Pring-Ham (ADF&G) at (907) 465-6150.



AQUATIC FARM APPLICATION CHECKLIST

Check off (✓) each item after you have completed the task.
By following this checklist you should have a complete application, ready to be processed.

- _____ Detailed Project Description (Page 2, Section B)
- _____ General Location Map using USGS topographical map (Page 4, Section C-3a)
- _____ Detailed Location Map using a NOAA Nautical chart (Page 4, Section C-3b)
- _____ Site plan map (Pages 4, Section C-3c)
- _____ Cross-section Diagram(s) of all facilities, equipment, gear, and anchor systems (Page 5, Section C-3d)
- _____ Detailed Drawing(s) of all facilities equipment, gear, and anchor systems (Page 5, Section C-3e)
- _____ Signature for the Aquatic Farm Program Application (Page 9, Section J)
- _____ Aquatic Farm Operation and Development Plan – Part A (Page 10, Section K)
- _____ Aquatic Farm Operation and Development Plan – Part B (Pages 11 –12, Section K)
- _____ Check or money order for the ADNR application filing fee (\$100 individuals/\$200 corporations), made payable to ADNR.
- _____ If applicable, Ownership Deed or lease document for any upland facility use not on state lands, (Page 7, Section F-3)
- _____ If applicable, Authorization from City or Borough Planning Departments if site is within a City or Borough Planning area (Page 7 - 8, Section F-4)
- _____ If applicable and you are proposing to farm clams (geoducks, littleneck clams, etc.) utilizing on-bottom culture methods, a fee of \$2,000 for an intertidal survey or \$5,000 for a subtidal survey, made payable to ADF&G.

For Office Use Only ADNR File No: _____ DATE STAMP:
ADF&G No: _____

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 30th.

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

A. APPLICANT INFORMATION

Name

Business Name (If Applicable)

Mailing Address (PO Box or Street Address)

City State Zip

Email Address

Home/Office Phone

Cell Phone

If you live in a remote area please provide a contact person (name, phone & email address) who can be easily reached.

Contact Name

Contact Phone Number

Business Partner Name (If applicable)

Business Partner Email Address (If applicable)

Business Partner Phone (If applicable)

***Please Answer (✓) the following questions:**

This project is: First time application Amendment Second time application (years 11-21)

I plan to farm: Pacific oyster Pacific littleneck geoduck blue mussel cockle
 sea urchin aquatic plant (kelp) other _____

I plan to utilize the following area/culture method: subtidal suspended subtidal on-bottom
 intertidal near-bottom intertidal on-bottom other _____

I plan to utilize the following gear/equipment: grow-out rafts and trays (plastic), or cages (metal)
 longlines and lantern nets flip-flop bags and line floating shark fin bags vexar bags
 tubes (PVC or vexar) predator netting other _____

My support facilities will include: work raft enclosed processing facility processing raft
 floating dock(s) personnel/caretaker housing facility other _____

B. PROJECT DESCRIPTION

On a separate piece of paper, please provide a general description of your proposed aquatic farm site and operations. This should be a narrative of your proposal that includes where your project will be located, overall size including any hardening area, all species you intend to culture, type of farm gear, equipment, support facilities, and associated housing to be used including size, number, and construction materials. Your narrative should match the rest of the application information you provide. **Please label your narrative, “PROJECT DESCRIPTION”.** **The following check-off list can be used to assure all items are covered in your project description.**

- | | |
|---|--|
| ✓ Site location | ✓ Support Facilities (type, size, number, configuration, material, and anchoring) |
| ✓ Site dimensions, acres for each parcel | ✓ Access to and from site |
| ✓ Total acres of all parcels | ✓ Storage location of equipment and gear when not in use |
| ✓ Species you intend to farm | |
| ✓ Culture Method | |
| ✓ Gear (type, size, number, configuration, material, mesh size, and anchoring system) | Note: All floating raft structures should use non-treated wood supported by closed cell (extruded) expanded polystyrene or equivalent material |
| ✓ Equipment (type, size, number, configuration, material, and anchoring system) | |
| ✓ Harvest equipment and method | |

EXAMPLE OF A PROJECT DESCRIPTION:

The proposed aquatic farm site is composed of three separate parcels located on state-owned tidal and submerged lands, totaling about 4.07 acres. Parcels include:

- *growing area measuring 292 ft x 546 ft (3.66 acres) for subtidal suspended culture of Pacific oysters using grow-out raft and cage system (Parcel 1);*
- *intertidal area measuring 60 ft x 154 ft (0.21 acre) for hardening and defouling (Parcel 2); and*
- *support facility area measuring 46 ft x 190 ft (0.20 acre) for a dock and dock and storage (Parcel 3).*

The proposed aquatic farm is located about 24.7 nautical miles south-southwest of Wrangell near Rocky Bay, a small bay near the mouth of Mosman Inlet on Etolin Island in southeastern Alaska. (Attachments 1-5)

Parcel 1 will hold eight (8) – 16 ft by 20 ft oyster grow-out rafts. Each grow-out raft will use 100 to a maximum of 300 Aquamesh cages stacked 10-high. Each cage will measure 22 inches wide x 22 inches long x 6 inches deep, manufactured of 1- inch by 1-inch PVC coated wire mesh. The 6 ft stacks of cages would hang 8 ft under the water’s surface. In addition, in the southwestern portion of the parcel, a 40 ft x 40 ft processing float with one 16 ft x 16 ft work shed, a covered area, and two 20 ft x 4 ft work platforms on each side will be used to accommodate oyster grow-out rafts during processing. The anchor system for all rafts would consist of floating anchor lines from each corner secured using 300 lb concrete anchors in water 60 ft deep. All rafts are constructed of untreated local wood with floatation made of closed cell (extruded) expanded polystyrene. (Attachments 6 – 10)

Parcel 2 will be used for hardening and defouling of Pacific oysters, using Aquamesh trays measuring 22 inches wide by 22 inches long by 6 inches deep (Attachment 11).

Upland facilities and support structures are located on National Forest Service lands adjacent to the farm site. Access to the site is by skiff from the adjacent uplands. Equipment and gear storage will be located on the permitted uplands or in Ketchikan.

C. PROJECT LOCATION

1. Coordinates

Please provide latitude and longitude coordinates for each corner of each parcel at the proposed farm site. Identify each parcel to be used. For example, Parcel 1 - growing area, Parcel 2 - hardening area, etc. Latitude and longitude coordinates must be in **NAD83 datum using degrees and decimal minutes format to the nearest .001 minute (Example: Longitude -133° 17.345)**, obtained using a Global Positioning System (GPS). A handheld GPS unit can be provided with a \$100 security fee by contacting the ADF&G at (907) 465-6150.

Parcel 1: _____
(e.g. Grow-out Area)

| | |
|---------------------------------|-----------------|
| NE Corner No. 1: Latitude _____ | Longitude _____ |
| SE Corner No. 2: Latitude _____ | Longitude _____ |
| SW Corner No. 3: Latitude _____ | Longitude _____ |
| NW Corner No. 4: Latitude _____ | Longitude _____ |

Parcel 2: _____
(e.g. Hardening Area)

| | |
|---------------------------------|-----------------|
| NE Corner No. 1: Latitude _____ | Longitude _____ |
| SE Corner No. 2: Latitude _____ | Longitude _____ |
| SW Corner No. 3: Latitude _____ | Longitude _____ |
| NW Corner No. 4: Latitude _____ | Longitude _____ |

Parcel 3: _____
(e.g. Support Facility Area)

| | |
|---------------------------------|-----------------|
| NE Corner No. 1: Latitude _____ | Longitude _____ |
| SE Corner No. 2: Latitude _____ | Longitude _____ |
| SW Corner No. 3: Latitude _____ | Longitude _____ |
| NW Corner No. 4: Latitude _____ | Longitude _____ |

2. Site Size (please use the following formula to compute area)

- To compute the total area (sq. ft), multiply the width (ft) by the length (ft) of site Parcel 1. The outside length and width of the Parcel **must include your anchors and anchoring system plus any scope**.
- Divide the area (sq. ft) of Parcel 1 by 43,560, to convert the area from sq. ft to acres.
- Repeat for each separate Parcel of your proposed farm site.
- Add the acres of each Parcel to get the total tideland acres for your proposed farm site.
- Write the amount of Total Acres on the line where indicated.
- Note that the number of acres must correspond to your farm site maps and drawings.

Parcel 1: _____ feet (x) _____ feet = _____ square feet (÷) 43,560 = _____
(Width of Parcel 1) (Length of Parcel 1) (Area) (Acres)

Parcel 2: _____ feet (x) _____ feet = _____ square feet (÷) 43,560 = _____
(Width of Parcel 2) (Length of Parcel 2) (Area) (Acres)

Parcel 3: _____ feet (x) _____ feet = _____ square feet (÷) 43,560 = _____
(Width of Parcel 3) (Length of Parcel 3) (Area) (Acres)

How many total acres of state-owned tidelands are you applying for (add all parcel acres): _____
(Total Acres)

If you are **also** applying for **state owned uplands for support facilities**, how many total upland acres are you applying for? _____
(Total Upland Acres)

3. Maps and Diagrams

Provide copies of maps and diagrams including general and detailed location maps, site plan map (an over view), cross-sectional diagram and detailed drawings. If the project has multiple parcels, you must provide maps of each location. Copies of the maps and drawings should be no larger than 8½" x 11" (standard letter

size). Examples are provided at the end of the application.
 A list of locations to obtain maps is provided below:

| | |
|----------------------------------|--|
| USGS Topographic quadrangle maps | State of Alaska Land Records – http://mapper.landrecords.info |
| NOAA nautical charts | NOAA – www.charts.noaa.gov |
| Other specialized maps | Other suppliers – www.naco.faa.gov/agents_acc.asp |
| ShoreZone mapping system | State of Alaska Land Records – http://tidelands.landrecords.info |
| Catalog of Anadromous Streams | http://alaskafisheries.noaa.gov/habitat/shorezone/szintro.htm http://www.sf.adfg.state.ak.us/SARR/AWC/index.cfm/FA/maps.interactive |

***Be sure to include a legend box on all maps and diagrams you provide with your application with the following information:**

FORMATTING

Figure No. and Title
 Applicant Name (Business Name)
 Waterbody
 Area/Region
 Today's Date

LEGEND BOX EXAMPLE

FIGURE 1 Detailed Location Map
 Alaska's Best Oysters
 Jerryton Bay
 East of Prince of Wales Island, Southeast AK
 March 30, 2012

a. General Location Map – This map is a larger scaled map showing larger surrounding area with less detail (See Figure 1). Use a USGS Topographic quadrangle map (scale: 1" = one mile (1:63,360)) and label it "Figure 1" and show the following information:

- USGS Map Name (e.g. Craig B-4) _____
- General location of the farm site
- Distance (in nautical miles), and direction (arrow) of the site from the nearest community
- A directional arrow identifying North
- Scale
- Legend box (example above)

b. Detailed Location Map – This map is a smaller scaled map showing more detail (See Figure 2). Use a National Oceanic and Atmospheric Administration (NOAA) navigational chart and label it Figure 2 and show the following information:

- NOAA Chart No. _____
- Boundaries of each farm area parcel and clearly label all corners (NE, SE, SW, and NW)
- Coordinates
- Directional arrow identifying North
- Scale on map
- Legend box (example above)
- If uplands area is proposed:
 - location and type of use (e.g. housing, storage shed, etc.)

c. Site Plan Map – Draw an overhead view of the farm area parcel(s) and surrounding area (See Figures 3 and 4). Label it "Figure 3" and show the following information:

- Boundaries of each farm area parcel and clearly label all corners (NE, SE, SW, and NW)
- Distance (in feet) between corners of each parcel
- All in-water structures and anchoring systems (All anchoring systems and anchor scope have to be inside the farm parcel boundary)
- Acres of each parcel.
- All equipment and support facilities with dimensions (in feet)
- Areas of eelgrass beds (intertidal zone)

- Areas of kelp beds (subtidal zone)
- Fuel and chemical storage
- Nearby anadromous streams (salmon)
- Major natural and man-made features (on site or nearby)
- Bottom characteristics (sand, mud, silt, clay, bedrock, cobble, shells, rockweed, algae/seaweed)
- Locations of all known existing uses, as provided in Section E of this application
- Legend box (example on previous page)

d. Cross-Sectional Diagram(s) - Provide Cross-Sectional Diagram(s) of all support facilities, equipment, and gear showing their placement and anchoring systems (See Figure 5). Note that more than one diagram may be required. Label it "Figure 5" (and so on) and show the following information:

- Distance between all facilities, gear or equipment on the proposed farm site
- Distance from bottom of gear to ocean bottom at mean lower low tide
- If suspended or on-bottom culture:
 - water depth at low tide
 - major on-bottom physical features (e.g. bottom contours)
- Dimensions of the anchoring configuration and poundage
- Dimensions of the marker buoy configuration
- Scale
- Legend box (example on previous page)

e. Detailed Drawing(s) - Provide Detailed Drawing(s) of all support facilities, equipment, and gear (See Figure 5). Note that more than one diagram may be required. Label and show the following information:

- Draw and label the dimensions (length/width/height) of all proposed gear and equipment.
- If suspended, indicate water depth at low tide in relation to structures and gear.
- Identify the construction materials used for all support facilities, equipment, and gear proposed.
- Legend box (see below*)

D. SITE SUITABILITY - PHYSICAL AND BIOLOGICAL CHARACTERISTICS

1. Is the proposed location protected from severe storms, winter ice, and away from boat traffic? **Yes** **No**
2. Are the proposed operation support facilities, equipment, gear and anchoring systems built to withstand high strong tidal currents and/or storms? **Yes** **No**
3. Does your site have good water exchange? **Yes** **No**
4. Are water temperatures suitable for proposed culture species? **Yes** **No**
(Note: temperatures > 60° F and < 31° F may pose problems such as Vibrio bacteria contamination or icing.)
5. Is there any significant freshwater influence near the farm? **Yes** **No**
6. (Note: freshwater may impact shellfish growth and/or survival or carry fecal coliform or other pollutants)
7. Is the salinity concentration at your proposed farm site above 28 ppt? **Yes** **No**
8. Have you monitored the phytoplankton (microalgae) abundance and types during the main grow-out season? **Yes** **No** **If yes, findings:** _____
(Note: shellfish depend on phytoplankton for food, but harmful phytoplankton can prevent harvest/sales.)
9. Have you monitored suspended sediments or turbidity (e.g. water clarity/transparency using a secchi disc) at your proposed farm site? **Yes** **No** **If yes, findings:** _____
(Note: This is used as rough check for microalgae densities, run-off, and glacial silt (milky- grey color).)
10. For on-bottom culture, are the bottom characteristics suitable for the proposed species? **Yes** **No**
Sand **Mud** **Silt** **Clay** **Bedrock** **Cobble** **Shells** **Rockweed** **Other** _____
11. What is the bottom contour like? **Flat** **Steep** **or Rough**
12. For suspended culture, is the water depth sufficient to prevent gear from grounding and impacting the benthos under floating structures? **Yes** **No** **Depth of Gear** (in ft): _____ **Water depth at low tide** (in ft): _____

13. Have you monitored the presence and extent of possible fouling organism within or around your proposed site (barnacle, mussels, algae, etc.)? **Yes** **No** **If yes, findings:** _____
14. Is your proposed site more than 300 ft from an anadromous fish (e.g. salmon) stream? **Yes** **No**
15. Are you aware of any eelgrass or kelp beds on or near your proposed farm site? **Yes** **No** **If yes, describe:** _____
16. For farming using on-bottom culture methods, what is the approximate density of the target species on the proposed farm site? **High** **Medium** **Low**
17. What are the shellfish predators and what measures will you take to control, discourage, or eliminate them at your proposed farm site? _____
18. Is your proposed farm site in a sensitive area as listed in section C of Part 1 Application Process, Guidelines, Authorizations and Contacts? **Yes** **No** **If yes, describe how your farm site can be sited without significant impact to the area?** _____

E. KNOWN EXISTING USES

Please check the boxes below, to indicate existing human and/or wildlife uses observed or known to exist at or within three miles of the proposed farm site. Indicate the locations of these existing uses on the Site Plan Map (refer to page 4, Section 3c).

- | | |
|---|---|
| <input type="checkbox"/> mining | <input type="checkbox"/> commercial fishing |
| <input type="checkbox"/> timber harvest or transfer | <input type="checkbox"/> sport fishing |
| <input type="checkbox"/> residential use | <input type="checkbox"/> salmon hatcheries |
| <input type="checkbox"/> harbor development | <input type="checkbox"/> hunting |
| <input type="checkbox"/> sheltered boat anchorage | <input type="checkbox"/> seafood processing plants |
| <input type="checkbox"/> seaplane landing | <input type="checkbox"/> upland access route(s) areas, bear trails, etc. |
| <input type="checkbox"/> commercial lodges | <input type="checkbox"/> wildlife uses, (e.g. shorebirds, sea mammal haul-outs) |
| <input type="checkbox"/> sightseeing | <input type="checkbox"/> subsistence; list species and frequency _____ |
| <input type="checkbox"/> recreation | _____ |
| <input type="checkbox"/> tourism | _____ |
| <input type="checkbox"/> historical/cultural/archeological site | |
| <input type="checkbox"/> other aquatic farm projects | |
| <input type="checkbox"/> navigational channels: _____ | |
| <input type="checkbox"/> other; list _____ | |

1. Do any of the existing uses checked above impact your project feasibility? **Yes** **No** **If yes, describe the impact and how you propose to mitigate or eliminate the impacts?** _____
- _____
- _____
- _____
- _____

2. Describe how your project may impact any of the existing uses checked above (consider navigational channels, especially in cases where they may be limited). _____

F. SUPPORT FACILITIES AND CITY AND BOROUGH CONTACTS

1. Personnel/Caretaker Housing*

Are you proposing any personnel/caretaker housing? Yes No

If yes, the proposed size will be: _____ (Width) _____ (Length) _____ (Height)

Please attach diagrams/drawings with labels clearly showing the Personnel/Caretaker housing.

What would be the maximum number of people housed per day? _____ (Needed for USACE)

***Note: a personnel/caretaker facility will add \$425.00 to your Department of Natural Resources annual fee.**

Note: you may stay a maximum of 14 consecutive days at your site on state-owned uplands or tidelands without applying for personnel/caretaker housing.

2. Enclosed Processing Facility

a. Are you proposing any enclosed processing facility? Yes No

If yes, the proposed size will be: _____ (Width) _____ (Length) _____ (Height)

Please attach diagrams/drawings with labels clearly showing the processing facility.

3. Upland Property

Do you currently own or lease upland property adjacent to, or near, the proposed farm site that you plan to use in conjunction with your proposal? Yes No If yes, attach a copy of ownership deed or lease.

If you are the adjacent upland owner, are you applying for a preference right under 11 AAC 63.040(f)?

Yes No

a. Please provide the names and addresses of the upland owners within one-half mile on each side of your proposed farm site. **This information may be obtained through borough/city property tax records, state, or federal land records.** Note: all adjacent upland owners within one-half mile on each side of your proposed farm site **must be notified.**

| UPLAND OWNER(S) | ADDRESS |
|-----------------|---------|
| | |
| | |

4. City/Borough Authorization

If you are applying within a recognized first class city or borough, please contact the appropriate Planning Section as additional authorizations may be required from them. Please provide the name, address, and telephone number of the person(s) you contacted and list any required authorizations.

| <u>CITY/BOROUGH</u> | <u>PHONE</u> | <u>CONTACTED?</u> |
|--|--------------|--|
| <input type="checkbox"/> Ketchikan Gateway Borough – Planning & Community Development.... | 228-6625 | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| <input type="checkbox"/> City of Craig – Planning & Zoning..... | 826-3275 | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| <input type="checkbox"/> City and Borough of Juneau – Permit Center..... | 586-0770 | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| <input type="checkbox"/> City and Borough of Sitka – Planning & Community Development..... | 747-1824 | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| <input type="checkbox"/> City of Thorne Bay | 828-3380 | Yes <input type="checkbox"/> No <input type="checkbox"/> |

City and Borough of Yakutat – Planning & Zoning Commission..... 784-3281 Yes No
 Kenai Peninsula Borough – Land Management Division..... 714-2200 Yes No

Type of authorization required by City or Borough: _____

G. WATER QUALITY INFORMATION – Department of Environmental Conservation

Do you plan to use a boat on your farm site? Yes No If yes, indicate the type of marine sanitation device. _____

1. If you plan to have personnel housing or caretaker facilities:
 Will wastewater be discharged from these facilities? Yes No If yes, what are the daily maximum and average discharge volumes? Maximum _____ Average _____

2. Were there any sources of past pollution at the site, such as a shore-based seafood processor, log transfer facility, industrial facility, oil spill contamination, or town or village? Yes No Unknown

If yes, identify:

a. The type of previous use (e.g. mine, village, seafood processor, oil spill).

b. The last known date of use. _____

c. The distance from the site previously used to your proposed site. _____

3. Are you aware of any current potential sources of human or industrial pollution in the area? (e.g. sewage outfalls, oil contamination, industrial transfer facilities upland operations, boat harbors, etc.)

Yes No If yes, describe:

a. The type of discharge(s). _____

b. The location and distance from your site. _____

c. The name of the discharger(s), if known. _____

4. Are you aware of any other planned development in the general area of your proposed site?

Yes No If yes, describe the planned development. _____

5. The DEC may request that you provide a map for certain projects to show the following information:

- a. areas of wastewater disposal systems, including both sewage and grey water discharge points (grey water means domestic wastewater from laundry, kitchen, etc., which does not contain human waste)
- b. location of drinking water, including drinking water wells or other drinking water system sources (fresh water and salt water), within 200 feet of any proposed or existing wastewater disposal systems
- c. location of solid waste storage and disposal sites (Note: you are encouraged to use existing permitted sites for the disposal of solid wastes. If there are not any existing permitted disposal sites in the area and they are necessary in your operation, you must contact the ADEC for authorization)
- d. areas used for fuel and chemical storage

I. US ARMY CORPS OF ENGINEERS GENERAL PERMIT EVALUATION

The US Army Corps of Engineers (USACE) has developed a General Permit (GP) for Aquatic Farm Structures within the State of Alaska. The GP only applies to projects that can meet the specific GP conditions. The Departments of Natural Resources and Fish and Game will evaluate your application and help determine if you can apply for authorization under the GP. If your proposed project does not meet the GP conditions, you will need to apply to the USACE for an Individual Permit using Department of Army (DA) permit application.

J. APPLICATION SIGNATURE BLOCK

AQUATIC FARM APPLICATION SIGNATURE AND PROGRAM CERTIFICATION STATEMENT

The information contained in this aquatic farm application is true and complete to the best of my knowledge and certify that the proposed activity complies with, and will be conducted in a manner consistent with all State and Federal Agency policies and regulations. I understand that modifications to the proposed activity may require additional review and that I may need to apply for an Individual Permit with the US Army Corps of Engineers.

This certification statement does not provide authorization necessary to sell my product. I understand I must separately apply for and hold a Growing Area Certification and a Harvesters Permit from the Department of Environmental Conservation.

Printed Name _____

Signature of Applicant _____ Date _____

Printed Name _____

Signature of Applicant _____ Date _____

I have enclosed the application fee of \$100 for individuals or \$200 for corporations

K. AQUATIC FARM OPERATION AND DEVELOPMENT PLAN – PARTS A & B

Your 10-year operation and development plan (ODP) is an important tool for both you and state agencies. Your aquatic farm is a commercial endeavor. Personal use or subsistence is not part of the Aquatic Farm Program. Therefore, your farm must meet a commercial use requirement (CUR) no later than the end of the fifth year of your lease and sales must be maintained or increased in the remaining years of the lease. Commercial use of the site means annual sales of aquatic farm products, as defined in AS 16.40.199, of at least \$3,000 per acre or fraction of an acre, or \$15,000 per farm, whichever is less. The CUR applies to the combined total of all species and is not a “per species” requirement. The 10-Year ODP should be an accurate reflection of your operations for each year you are farming. Therefore, the estimated amount of sales must correlate to the estimated amount of seed you plan to purchase minus mortality rates. ***Note: You must complete one 10-Year Operation and Development Plan for each species you propose to farm.**



***Complete one operation and development plan for each species**

AQUATIC FARM OPERATION AND DEVELOPMENT PLAN – PART A

Part A includes questions regarding your proposed operation. Your proposed aquatic farm or hatchery plans must demonstrate technical and operational feasibility (AS 16.40.105(4)). Please provide any additional information that you consider pertinent to your operating plan on additional sheets of paper as necessary.

Name _____ Species _____
ADNR Lease ADL No.: _____ ADF&G Permit No. _____ - _____ -AF - _____

1. Provide an estimate of the total days and number of people (including yourself) that will be needed to operate your farm site for each year:

| | | |
|---------|----------------------|------------------------|
| Year 1: | Number of Days _____ | Number of People _____ |
| Year 2: | Number of Days _____ | Number of People _____ |
| Year 3: | Number of Days _____ | Number of People _____ |
| Year 4: | Number of Days _____ | Number of People _____ |
| Year 5: | Number of Days _____ | Number of People _____ |

2. Site Monitoring/Maintenance

a. How often, in days per month, do you intend to monitor your site for things such as adequate anchoring, disease, exotic species settlement, fouling, gear drift, snow load, wind damage, vandalism, etc.?

Growing season _____ (days/month) **Winter months** _____ (days/month)

b. Where will you store any farm gear and/or equipment when not in use? _____

c. How will you keep the gear and shellfish free of fouling organisms (hot-dip, air dry, pressure washing, etc.)? _____

d. How will you manage incidental species over the course of operations (sea urchins, sea cucumbers, butter clams, or other non-targeted species)? _____

e. For on-bottom culture, if you intend to use predator netting, how long will you keep netting over your product? _____(months)

3. Recordkeeping

a. What methods are you going to use to measure the success of your operation (growth, survival or mortality rates, production, etc.)? _____

b. Will you maintain records of aquatic farm product, such as counts and measurements to track survival and growth? **Yes** ___ **No** ___ **Describe:** _____

c. Do you plan to record other physical or environmental parameters at your site such as water temperatures and salinity? **Yes** ___ **No** ___ **Describe:** _____

4. Harvest

a. How often do you intend to harvest your product? _____

b. How do you intend to harvest your product? **Suspended:** Manual _____ Other _____
On-Bottom: Hand/Digging _____ Hydraulic wand _____ Manual _____ Other _____

5. Sales

a. DNR has a commercial use requirement (CUR) of \$3,000 per acre per year or \$15,000 per farm, whichever is less. What is your anticipated total production using farm gate value by the end of year 5?
\$ _____

6. Seed Acquisition

a. Which certified shellfish seed source(s) will you use? _____

b. Applicable for indigenous species (mussels, scallops, abalone, etc.), how do you intend to collect wild seed? _____

PART A – SIGNATURE BLOCK

Signature: _____

Date: _____

AQUATIC FARM 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 keeping in mind that annual sales at the end of year 5 must meet or exceed the commercial use requirement and sales must then be maintained or increased in the remaining years of the lease. Commercial use equals the annual sum of farm sales from all species combined. The commercial use requirement does not have to be met for each species. Your plan can be amended to reflect any changes as the aquatic farm operations develop.

| Name _____ ADL Number _____ ADF&G Permit No. ____ -AF- ____ Species _____ | | | | | | | | |
|---|---------------------------------|--|-------------------|-----------------------------|---|--|--------------|-------------|
| Calendar Year | Installation Schedule | | | # of Hatchery-Produced Seed | #of Seed Collected Onsite (Only applies to indigenous sp.) | Aquatic Farm Production Projected Harvest and Sales | | |
| | Support Facilities ¹ | Equipment/ Gear Types And Numbers ² | Anchoring Systems | | | Projected Sales ³ (\$) | # of Animals | # of Pounds |
| (Year 1) 20__ | | | | | | \$ | | |
| (Year 2) 20__ | | | | | | \$ | | |
| (Year 3) 20__ | | | | | | \$ | | |
| (Year 4) 20__ | | | | | | \$ | | |
| (Year 5) 20__ | | | | | | ⁴ \$ | | |

¹ Support facilities examples: caretaker, storage, or processing facilities, work rafts, etc. This must correspond to diagrams and drawings.

² Equipment examples: grow-out rafts, longlines, buoys, etc. Gear examples: trays, tiers of lantern nets, or predator netting. This must correspond to diagrams and drawings.

³ Projected sales are based on Farm Gate Income which is defined as the unprocessed value, excluding the cost of packaging or transport of the product to its' first point of sale.

⁴ By the end of your 5th year, **projected sales for all species combined must meet the commercial use requirement** (CUR) defined as the annual sales of at least \$3,000 per acre or fraction of an acre, or \$15,000 per farm, whichever is less (11 AAC 63.03(b)). The CUR applies to the combined total of all species, is not a "per species" requirement and must be maintained or increased in Years 6 - 10.

I understand I must improve productivity according to above operation and development plan for this species and that this plan can be amended to reflect any changes as the aquatic farm operations develop.

SIGNATURE _____

DATE _____

(Continued – Page 2)

AQUATIC FARM OPERATION AND DEVELOPMENT PLAN – PART B

Name _____ ADL Number _____ ADF&G Permit No. _____ -AF- _____ Species _____
(Individual plan required for each species)

| Calendar Year | Installation Schedule of New Structures (Corresponds with diagrams and drawings) | | | # of Hatchery-Produced Seed | #of Seed Collected Onsite (Only applies to indigenous sp.) | Aquatic Farm Production Projected Harvest and Sales | | |
|-------------------|---|-------------------------------------|-------------------|-----------------------------|---|--|--------------|-------------|
| | Support Facilities ¹ | Gear Types And Numbers ² | Anchoring Systems | | | Projected Sales ³ (\$) | # of Animals | # of Pounds |
| (Year 6) 20__ | | | | | | \$ | | |
| (Year 7) 20__ | | | | | | \$ | | |
| (Year 8) 20__ | | | | | | \$ | | |
| (Year 9) 20__ | | | | | | \$ | | |
| (Year 10) 20__ | | | | | | \$ | | |

¹Support facility includes: caretaker, storage, or processing facilities, work rafts, etc.

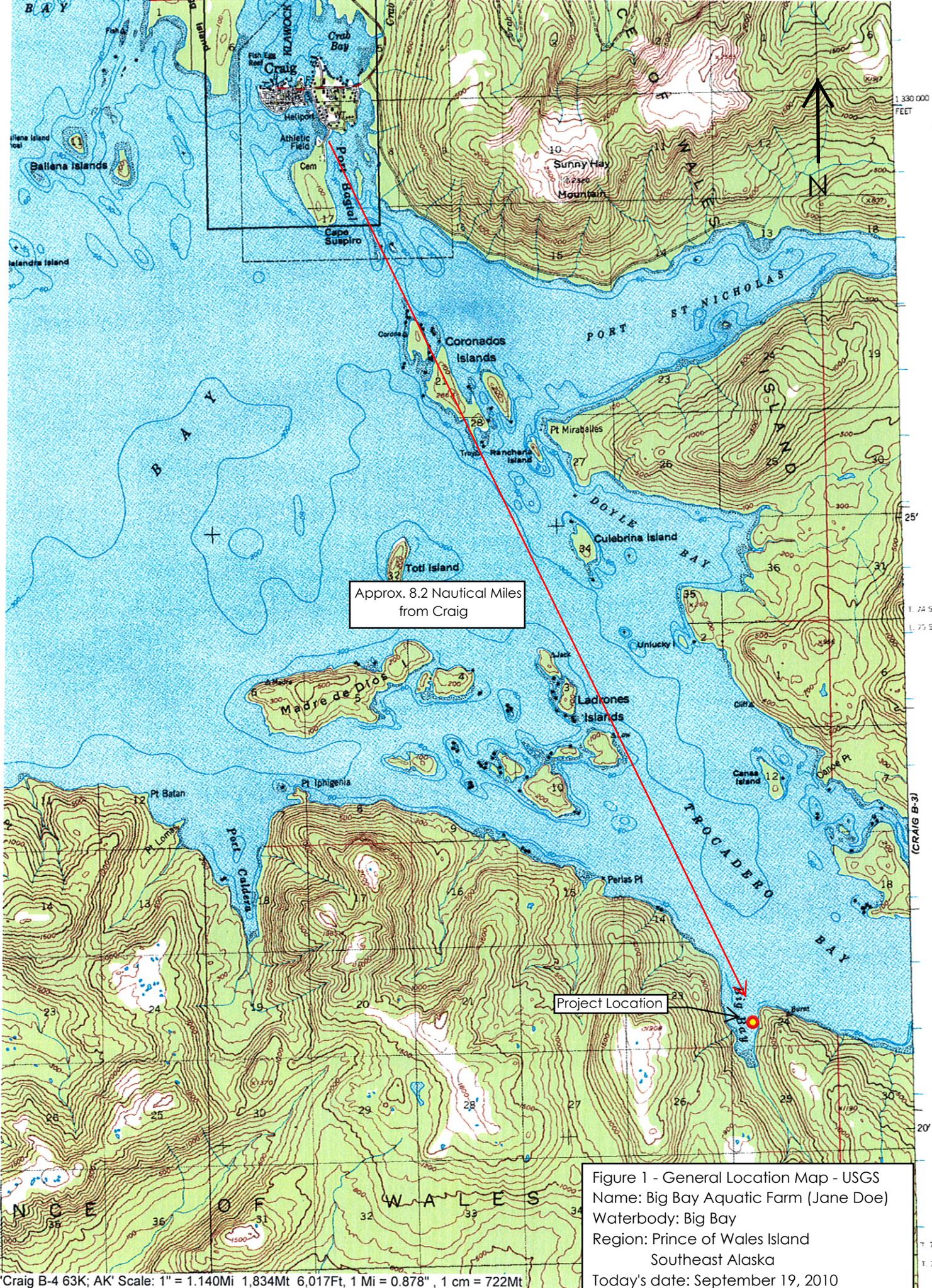
²Equipment includes: grow-out rafts, longlines, buoys, etc. Gear Includes:: trays, tiers of lantern nets, or predator netting. This must correspond to diagrams and drawings.

³Projected sales are based on Farm Gate Income which is defined as the unprocessed value, excluding the cost of packaging or transport of the product to its' first point of sale.

I understand I must improve productivity according to above operation and development plan for this species and that this plan can be amended to reflect any changes as the aquatic farm operations develop.

SIGNATURE _____

DATE _____



Approx. 8.2 Nautical Miles
from Craig

Project Location

Figure 1 - General Location Map - USGS
 Name: Big Bay Aquatic Farm (Jane Doe)
 Waterbody: Big Bay
 Region: Prince of Wales Island
 Southeast Alaska
 Today's date: September 19, 2010

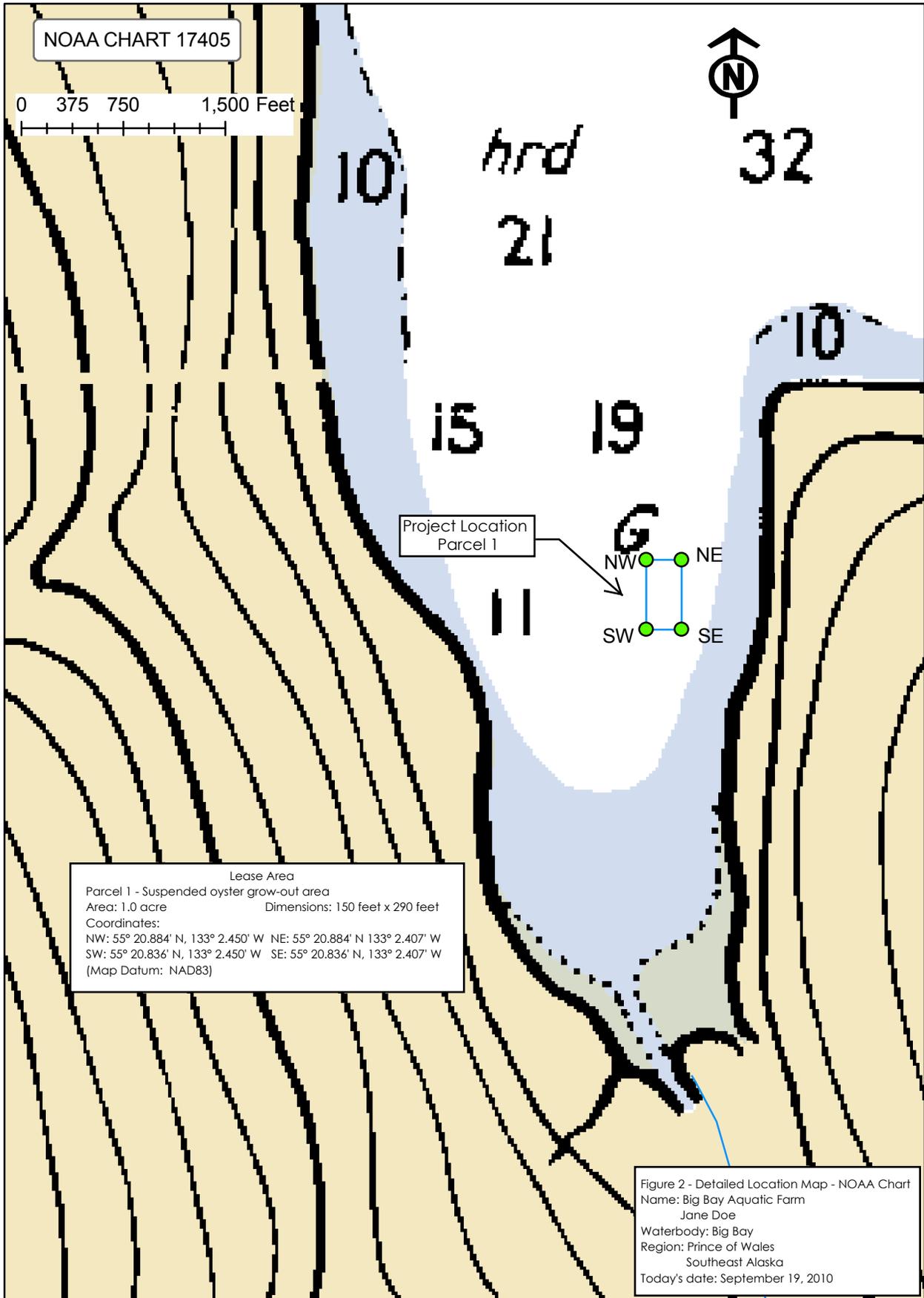
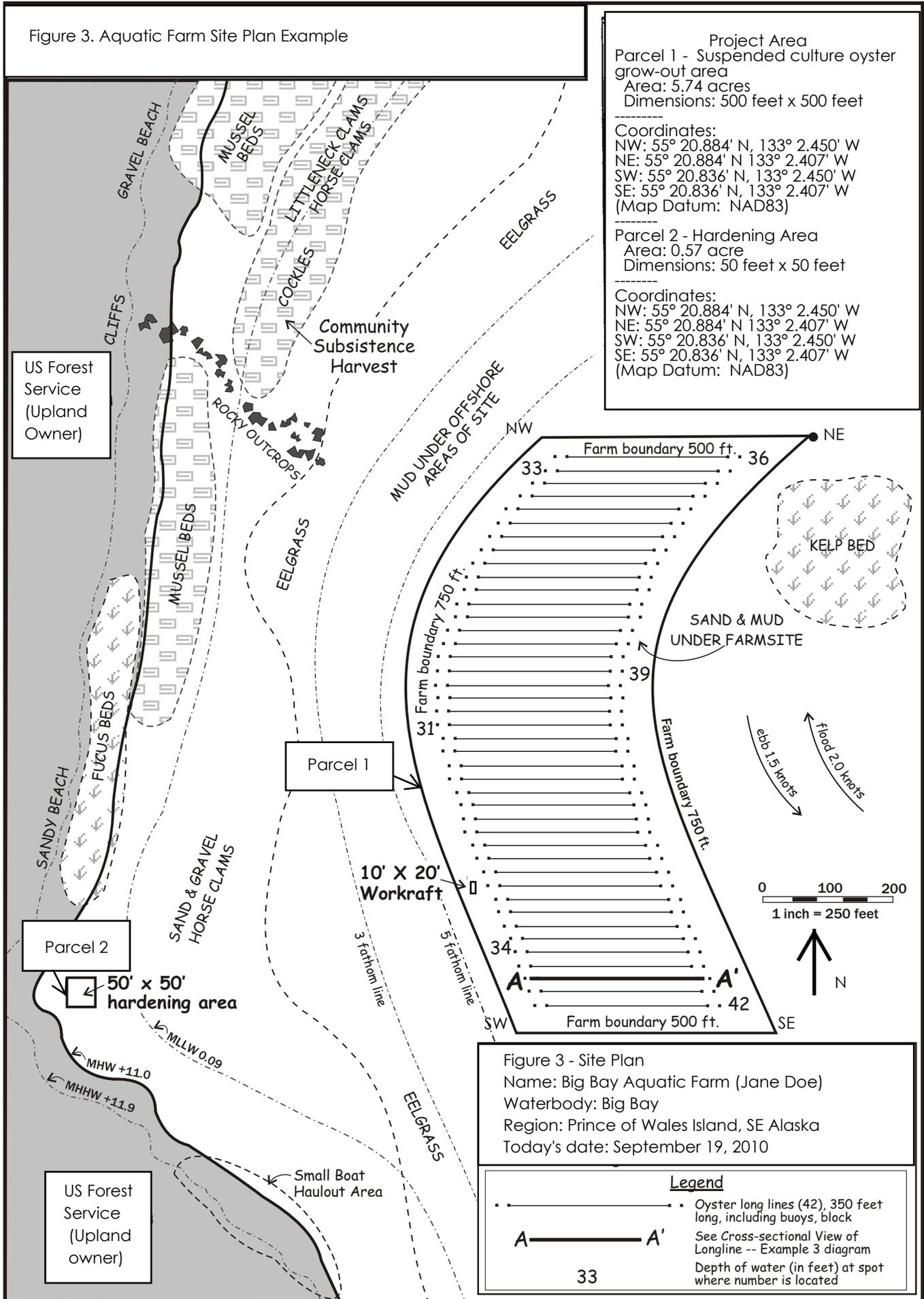


Figure 3. Aquatic Farm Site Plan Example



Project Area
 Parcel 1 - Suspended culture oyster grow-out area
 Area: 5.74 acres
 Dimensions: 500 feet x 500 feet

Coordinates:
 NW: 55° 20.884' N, 133° 2.450' W
 NE: 55° 20.884' N, 133° 2.407' W
 SW: 55° 20.836' N, 133° 2.450' W
 SE: 55° 20.836' N, 133° 2.407' W
 (Map Datum: NAD83)

Parcel 2 - Hardening Area
 Area: 0.57 acre
 Dimensions: 50 feet x 50 feet

Coordinates:
 NW: 55° 20.884' N, 133° 2.450' W
 NE: 55° 20.884' N, 133° 2.407' W
 SW: 55° 20.836' N, 133° 2.450' W
 SE: 55° 20.836' N, 133° 2.407' W
 (Map Datum: NAD83)

Figure 3 - Site Plan
 Name: Big Bay Aquatic Farm (Jane Doe)
 Waterbody: Big Bay
 Region: Prince of Wales Island, SE Alaska
 Today's date: September 19, 2010

Legend

- Oyster long lines (42), 350 feet long, including buoys, block
- A—A' See Cross-sectional View of Longline -- Example 3 diagram
- 33 Depth of water (in feet) at spot where number is located

Figure 4. Aquatic Farm Site Plan Example 2

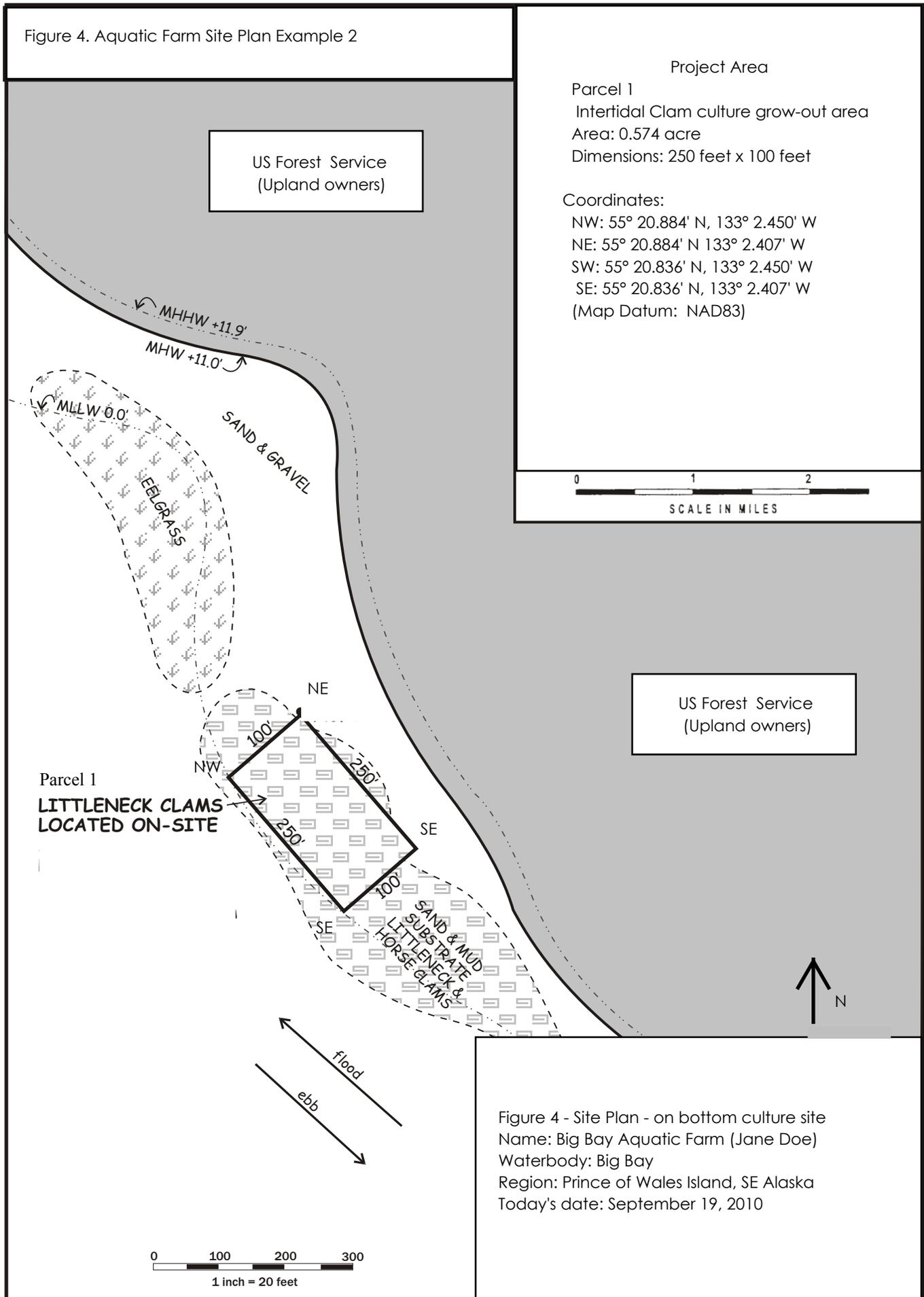


Figure 4 - Site Plan - on bottom culture site
 Name: Big Bay Aquatic Farm (Jane Doe)
 Waterbody: Big Bay
 Region: Prince of Wales Island, SE Alaska
 Today's date: September 19, 2010

Figure 5. Aquatic Farm Cross-Sectional Diagrams and Drawings Examples

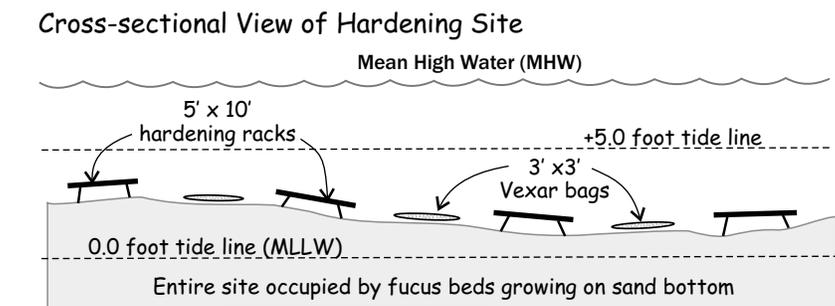
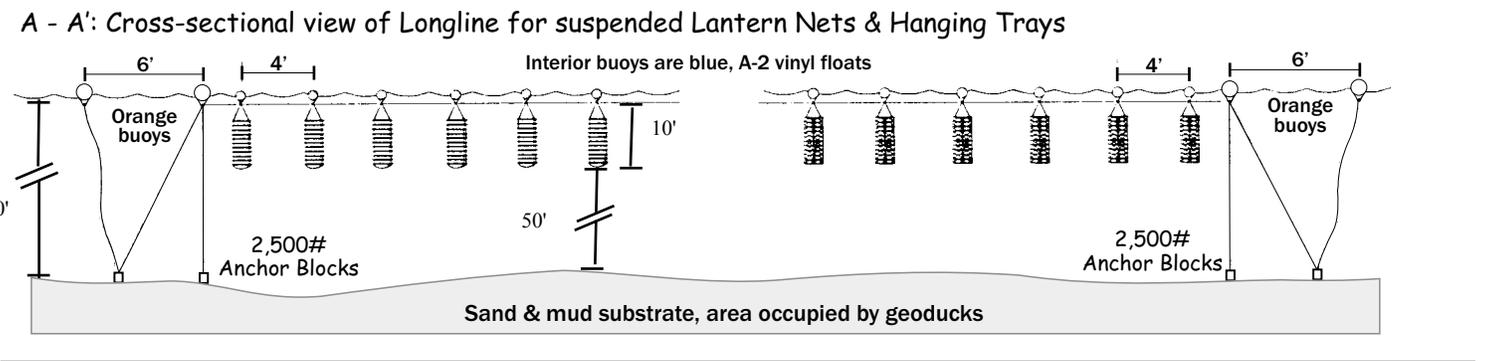
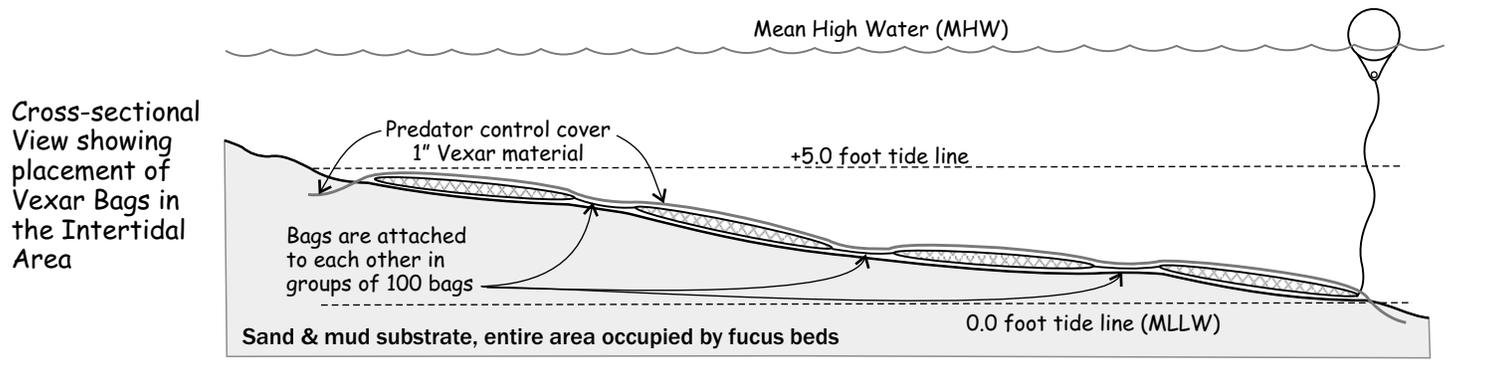
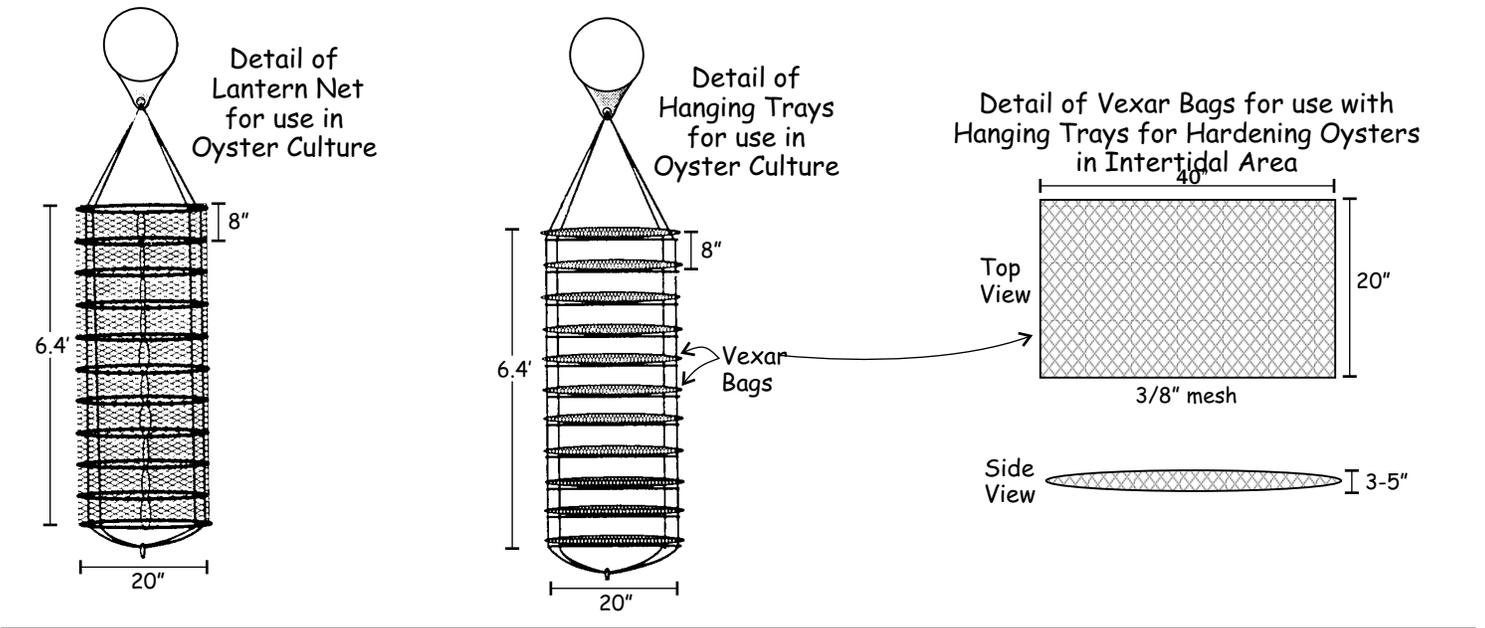


Figure 5 - Detailed Cross-sectional Diagrams and Drawings

Name: Big Bay Aquatic Farm (Jane Doe)

Waterbody: Big Bay

Region: Prince of Wales Island, SE Alaska

Today's date: September 19, 2010