

## STANDARD LEASE APPLICATION: NON-DISCHARGE

### 1. APPLICANT CONTACT INFORMATION

Applicant	Downeast Institute		
Contact Person	Dianne Tilton		
Address	39 Wildflower Lane, PO Box 83		
City	Freeport		
State, Zip	ME, 04032		
County	Washington		
Telephone	207-497-5769		
Email	dtilton@downeastinstitute.org		
Type of Application	<input checked="" type="checkbox"/> Draft Application <span style="margin-left: 150px;"><input type="checkbox"/> Final Application</span> <small>[submitted before scoping session session] <span style="margin-left: 100px;">[submitted after scoping session]</span></small>		
Dates	Pre-Application Meeting:	Draft Application Submitted:	Scoping Session:
Payment Type	Draft Application: <input type="checkbox"/> Check (included) <input type="checkbox"/> Credit Card		Final Application: <input type="checkbox"/> Check (included) <input type="checkbox"/> Credit Card

**Note:** The email address you list here will be the primary means by which we will contact you. Please provide an email address that is checked regularly. If you do not use email, please leave this blank.

### 2. PROPOSED LEASE SITE INFORMATION

Location of Proposed Lease Site	
Town	Beals
Waterbody	Tidal impoundment on Black Duck Cove, Western Bay
General Description (e.g. south of B Island)	North end of Downeast Institute campus, known as "Elmer's Pound"
Lease Information	
Total acreage requested (100-acre maximum)	1.14
Lease term requested (20-year maximum)	20
Type of culture (check all that apply)	<input checked="" type="checkbox"/> Bottom (no gear)  <input checked="" type="checkbox"/> Suspended (gear in the water and/or on the bottom)

Is any portion of the proposed lease site above mean low water?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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**Note:** If you selected yes, you need to complete the steps outlined in the section titled: “Landowner/Municipal Permission Requirements”.

### 3. GROWING AREA DESIGNATION

**Directions:** Information for growing area designations can be found here:

<https://www.maine.gov/dmr/shellfish-sanitation-management/closures/index.html>

Growing Area Designation (e.g. WL):	EN
Growing Area Section (e.g. "A1"):	P5

**Note:** If you are proposing to grow molluscan shellfish in waters classified as anything other than open/approved, you will need to contact the Bureau of Public Health to discuss your plans at the following email: [DMRPublicHealthDiv@maine.gov](mailto:DMRPublicHealthDiv@maine.gov)

### 4. SPECIES INFORMATION

A. Please complete the table below and add additional rows as needed.

Name of species to be cultivated (include both common and scientific names):	Name and address of the source of seed stock or juveniles	Maximum number (or biomass) of organisms you anticipate on the site at any given time
1. Soft-shell clams <i>Mya arenaria</i>	Downeast Institute 39 Wildflower Lane Beals, ME	2,000,000 at 2mm SL 1,200,000 at 10-12mm SL
2. Arctic Surf Clams <i>Mactromeris polynema</i>	Downeast Institute 39 Wildflower Lane Beals, ME	2,000,000 at 2mm SL 1,600,000 at 10-12mm SL
3. American Oysters <i>Crassostrea virginica</i>	Downeast Institute 39 Wildflower Lane Beals, ME	2,000,000 at 2mm SL 1,500,000 at 10-12mm
4. European Oysters <i>Ostrea edulis</i>	Downeast Institute, pending DMR approval 39 Wildflower Lane Beals, ME	2,000,000 at 2mm SL 1,000,000 at 10-12mm SL
5. Atlantic surf clam <i>Spisula solidissima</i>	Downeast Institute 39 Wildflower Lane Beals, ME	2,000,000 at 2mm SL 1,200,000 at 10-12mm SL
6. Quahog <i>Mercenaria mercenaria</i>	Downeast Institute 39 Wildflower Lane Beals, ME	2,000,000 at 2mm SL 1,200,000 at 10-12mm SL
7. Sea Scallop <i>Placopectan magalanicus</i>	Wild seed collected by individual with applicable licenses: Alex de Koning, Frenchman's Bay or Downeast Institute, pending DMR Approval.	2,000,000 at 2mm SL 1,200,000 at 10-12mm SL

8. Razor clams <i>Ensis leei</i>	Downeast Institute, pending DMR approval 39 Wildflower Lane Beals, ME	2,000,000 at 2mm SL 1,200,000 at 10-12mm SL
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**B.** Do you intend to possess, transport, or sell whole or roe-on scallops?  Yes  No

**If you answered “yes”** please contact the Bureau of Public Health to discuss your plans at the following email: [DMRPublicHealthDiv@maine.gov](mailto:DMRPublicHealthDiv@maine.gov)

**Note:** If you are proposing to grow molluscan shellfish, this application also serves as your written operational plan as required in the National Shellfish Sanitation Program (NSSP) Model Ordinance Chapter 2 and must be maintained in your files. If you wish to submit an operational plan separate from this application, please contact: [DMRPublicHealthDiv@maine.gov](mailto:DMRPublicHealthDiv@maine.gov)

## 5. VICINITY MAP

**Note:** Please label as: 'Vicinity Map'.

**Directions:** Using a NOAA Chart or USGS topographic map, show the area within a minimum of one-half mile of the proposed lease site.

The map needs to display the following:

- The waters, shore lands, and lines of mean high and mean low water within the general area of the lease
- An arrow indicating true north
- A scale bar
- The approximate lease boundaries

See attachment, page 25.

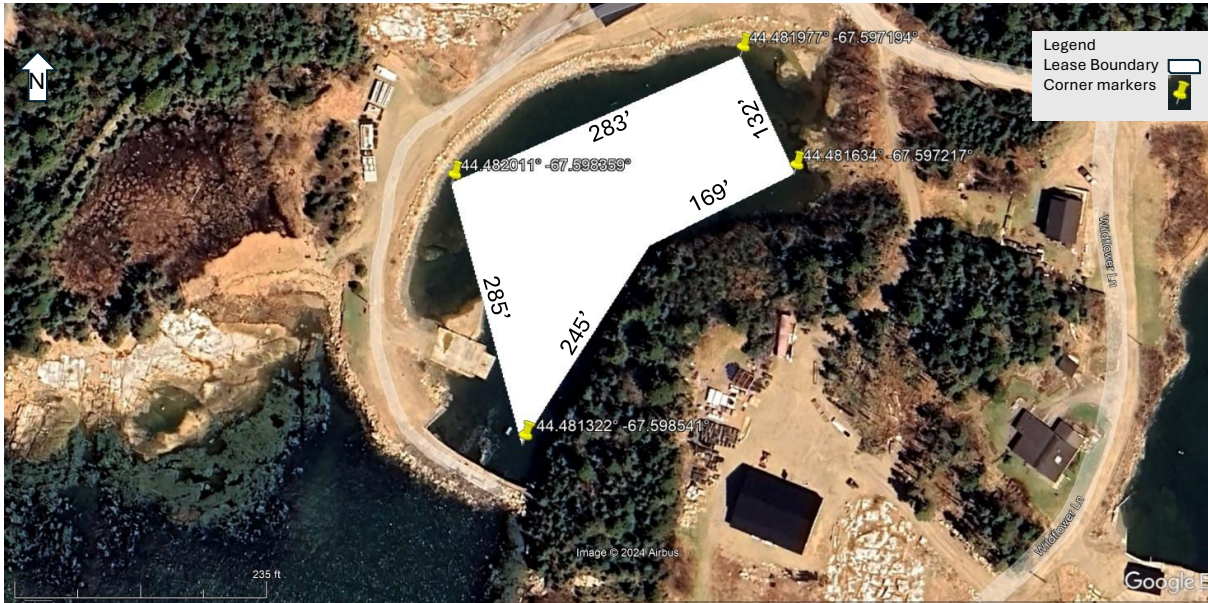
## 6. BOUNDARY DRAWING

**Note:** Please label as: 'Boundary Drawing'.

**Directions:** Depict the boundaries of the proposed lease site. Provide a drawing with all corners, directions, and distances labeled. Provide coordinates for each corner as follows:

- Coordinate Description  
Provide geographic coordinates for each corner of the lease site in latitude and longitude in decimal degrees (e.g., 43.123456 N, -69.123456 W) Identify the datum from the map, chart, or GPS unit used to develop these coordinates. The datum will be shown on the map or chart you are using. The Coordinate Description may be provided separately from the Boundary Drawing.

Elmer's Pound Lease Boundaries



The drawing was made using Google Earth and the coordinates are as follows:

NW = 44.482011 N -67.598359 W

NE = 44.481977 N -67.597194 W

SE = 44.481634 N -67.597217 W

SW = 44.481322 N -67.598541 W

## 7. SITE DEVELOPMENT

**Directions:** If your operations require the use of cages, nets, ropes, trays, or any object (structure) other than the organism to be grown directly on the bottom or buoys to mark the corners of the lease site, you must submit gear drawings and maximum structure schematics (information below). This section is intended to provide accurate plans depicting the physical structures to be placed in the proposed area. All dimensions need to be labeled with the appropriate units (i.e. 10ft, 10in). If you are proposing a bottom lease (no gear), please skip to question “F. Marking”.

**Note:** You may embed the schematics within the document or attach them to the end of your application. If you attach the schematics, please label them according to the instructions provided below.

### A. Gear Information

**Directions:** Include a drawing of an individual piece of gear for each of the gear type(s) you plan to use. Include units referenced (i.e. 10in, 10ft, etc.).

1. Gear Drawing: Please include the following for each gear type that will hold organisms to be cultured (e.g. polar circles, marine algae longlines, oyster cages) and label as “Gear Drawing”. This view must show the following:
  - Length, width, and height of each gear type.

See attachment (pages 25-27)

2. Gear Table: List and describe each individual gear type that you will use in the table below. (e.g. polar circles, marine algae longline, oyster cages, moorings, mooring lines, buoys, etc.).

<b>Specific Gear Type</b> <i>(e.g. soft mesh bag)</i>	<b>Dimensions</b> <i>(e.g. 16"x20"x2")</i>	<b>Time of year gear will be deployed</b> <i>(e.g. Spring, Winter, etc.)</i>	<b>Maximum amount of this gear type that will be deployed on the site</b> <i>(i.e. 200 cages, 100 lantern nets, etc.)</i>	<b>Species that will be grown using this gear type</b>
Floating Trays	36"x 48" x 3" deep	Spring-Fall	300	All
Floating ADPI oyster bags	18" x 32"x 3" deep	Spring-Fall	200	American and European Oysters
Submerged ADPI oyster bags	18"x 32"x 3" deep	Winter	200	American and European oysters
Oyster grow® cages	9" tall x 67.5" long x 36" wide	Year round (Submerged in winter)	30	American and European oysters
Compartment floats	12.5' x 23.5' x 4' deep	Year round	1	All
1" flotation line	½ inch rope	Spring- Fall	740 ft	All
Lobster Buoys	5' x 11'	Dec. 31- June 1	24	n/a
anchor chain	½ inch x 25'	Year round	60 ft	N/a
Cinder block anchors	8" x 8"x 16"	Year round	20	n/a
Yellow hardshell low drag buoys for corner markers	6"x13"	Year round	4	All

**B. Maximum Structure and Mooring System Schematic**

**Directions:** Include drawings of your maximum gear layout. Include units referenced (i.e. 10in, 10ft, etc.).

1. Overhead View. Please include the following and label as “Overhead View”:
  - Maximum layout of gear, including moorings.
  - Length and width of project.
  - Approximate spacing between gear.
  - Lease boundaries and the location of proposed corner markers and any additional gear markers that would be present.

See attachment labeled “Overhead view” on pg. 28.

2. Cross-Section View. Please include the following and label as “Cross-Section View”:
  - The sea bottom.
  - Profile of gear in cross-section as it will be deployed.
  - Label gear with dimensions and materials.
  - Show mooring gear with mooring type, scope, hardware, and line type and size.
  - Depth of gear in relation to the water’s surface at mean low water and mean high water (if applicable).

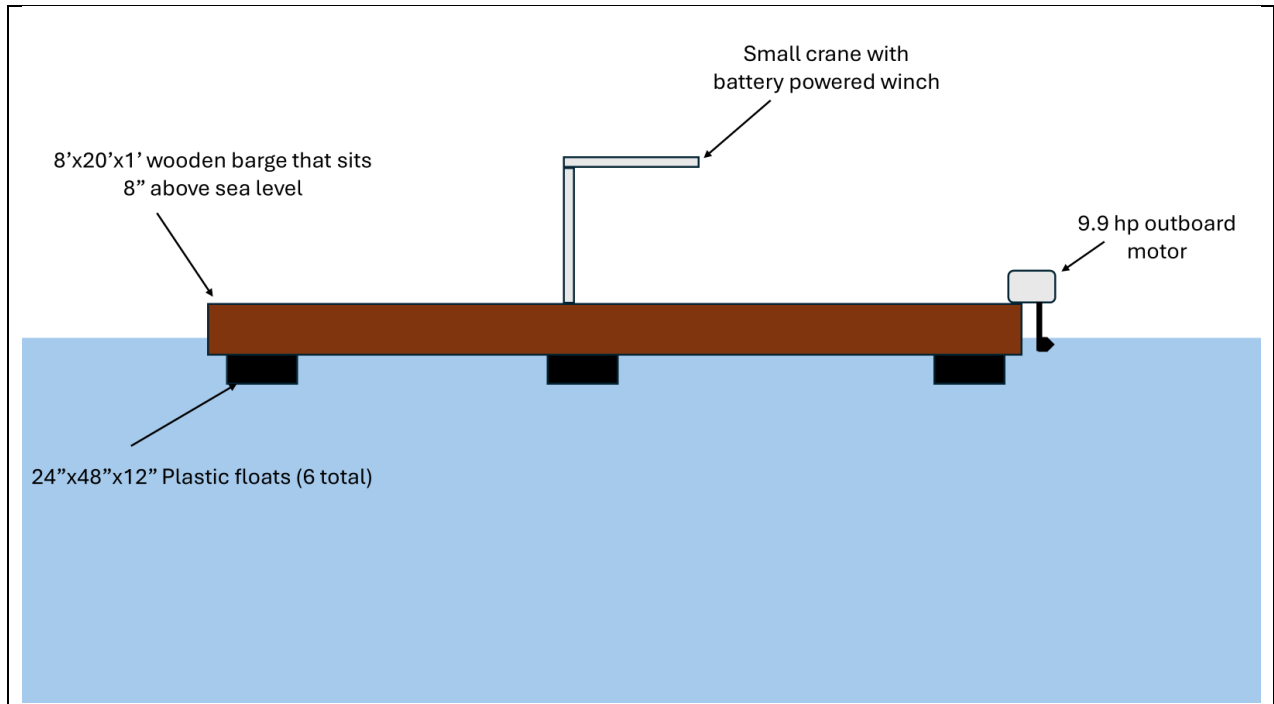
**Note:** Please include an additional Cross Section View, depicting the elements listed above, if there will be seasonal changes to gear layout (i.e. over wintering).

**C. On-Site Support Structures**

- |   |
|---|
| 1. Describe structures such as barges, sheds, etc., to be located on-site. Provide a schematic and indicate the dimensions, including height above sea level, materials, etc. |
|---|

We use a wooden barge in the pounds that operates with a 9.9 hp outboard motor. See schematic below.
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2. Describe the storage and use of oil, gasoline, or other hazardous materials on site. If petroleum products are to be stored on site, provide a spill prevention plan.

No storage on site.

**D. Gear Color**

Provide the color of the gear and structures proposed to be used at the lease site.
Black trays, bags, oyster cages. Wooden compartment float. Wooden barge with silver crane. Yellow corner markers. White rope. Gray cinder blocks.

**E. Equipment Layout**

Provide schematic or photographic renderings of the generalized layout of the equipment as depicted from two vantage points on the water. Provide the locations of the two vantage points.

See attachment on pg. 33.

**F. Marking**

Will you be able to mark your site in accordance with DMR regulations, Chapter 2.80? In part, this requires marker buoys which clearly display the lease ID and the words SEA FARM to be located at each corner of the lease. Effective January 1, 2023, marker buoys need to be yellow and host reflective material. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If you answered no, explain why and suggest alternate markings.

**Note:** If a lease is granted, you will also be required to mark the site in accordance with appropriate US Coast Guard Regulations. If you have questions about US Coast Guard Regulations contact: 1<sup>st</sup> Coast Guard District, Aids to Navigation Office (617-223-3293).

## 8. PRODUCTION ACTIVITIES

**Directions:** If you are cultivating more than one species, you will need to provide the following information for each species. Please attach additional pages if needed.

**A.** Please explain your proposed seeding activities. What months will seeding occur and how often will you be onsite to seed during this time.

“Elmer’s Pound” is situated on DEI’s campus and will be a “nursery” for juvenile oysters, clams and other species as needed. It will be used primarily to conduct growth trials on American and European oysters, Atlantic surf clams, soft-shell clams, quahogs, Sea scallops, and razor clams. Seeding will occur in the months of May and June. We will be on site 3-4 times per week during this time.

**B.** Please explain your proposed tending/maintenance activities.

When the animals are at least 2mm in size, generally in May or June, they are placed into a nursery outside the hatchery. Gear for containing the 2mm shellfish vary slightly, with most species thriving in floating wooden trays. Oysters require oyster bags and cages.

**C.** How frequently will you visit the site for routine tending/maintenance (i.e. flipping cages, etc.)?

This pound is on our property and we are there daily. Oyster cages and bags will be flipped every two weeks.

**D.** Describe the harvesting techniques you will use. If you plan on using a drag, please provide the dimensions.

Since the site serves as only a nursery no harvesting of mature animals will occur.

**E.** How often will you be at the site during harvesting periods?

No harvesting will occur.

**F.** Will gear be on the site year-round?  Yes  No

**G.** Describe any overwintering or “off season” plans for the site. For example, will you remove gear from the site and/or deploy gear in different areas within the proposed site? Please include where gear or product will be located if removed from the site.

We plan to try submerging some of the oyster bags and cages. Removed gear will be stored on land on our property. Compartment float will remain year round.

Oyster Gro cages and bags will be submerged for the winter. Floating trays will be removed for the winter.

**H.** Please provide details on any predator control techniques you plan to employ.

All gear acts as predator control. The cages house mesh oyster bags that keep out predators such as crabs and birds. Floating trays are fully enclosed with mesh and deter predators such as crabs and birds

**I.** Suspended culture gear can attract birds that roost on the gear and defecate, potentially creating a pollution source impacting shellfish held within the gear. In order to comply with the National Shellfish Sanitation Program (NSSP) Model Ordinance (MO), DMR is requiring that applications for the suspended culture of shellfish include a description of mitigation or deterrent measures to minimize the potential pollution impacts of birds at the proposed site. If appropriate, include sketches or photos that clearly depict those measures put into practice.

Examples may include:

- Submerging suspended gear and associated product at a depth sufficient to deter roosting for two weeks before harvest
- Attaching physical deterrents (i.e. zip ties) to gear
- The site is proposed for the culture of seed only
- The site is proposed for the culture of adductor-only scallops (i.e. no other shellfish species would be grown on the site)
- Proposed gear would always be suspended below the surface of the water at a depth sufficient to deter roosting (i.e. as is common for scallop lantern nets)

No harvesting will occur on site.

## 9. NOISE AND LIGHT

**Directions:** If a question does not pertain to your proposed operations, please write “**not applicable**” or “**N/A**”.

**A.** What type of boats will be used on the site? When and how often will these vessels be on the site?

Weekly during May- November a 9.9 horsepower outboard on a wooden barge will be used on site.

**B.** What type of powered equipment (e.g. generator, power washer, grading equipment, barges, etc.) will be used on the site? When and how often will the equipment be used?

A small wooden barge with a 9.9 hp outboard and electric crane will be used on site.

C. Specify how you intend to reduce noise levels from the boats and other powered equipment.

N/A.

D. Provide the number, type (whether fixtures are shielded), wattage and location of lights, other than those used for navigation or marking, that will be used at the proposed lease site.

N/A

E. Indicate under what circumstances you might work at your site beyond daylight hours.

We will not be working beyond daylight hours.

## 10. CURRENT OPERATIONS

**Directions:** If a question does not pertain to your proposed operations, please write “**not applicable**” or “**N/A**”.

A. Describe your existing aquaculture operations, including the acronyms of all active leases and/or licenses.

We have been operating a soft-shell clam hatchery in Maine for over 30 years. We also experiment with hatchery techniques in order to culture other bivalves for public and private use. Our hatchery is used to spawn shellfish, grow it to 2 mm size, overwinter juveniles, and store broodstock.

Mud Hole Cove EAST MHCx; (pending standard lease application)  
JROB520; JROB620; JROB720; JROB820;  
KPEP523; KPEP623; KPEP723; KPEP823;  
DTIL521, DTIL621; DTIL721; DTIL821;  
BSAL121;  
EAST JPx;

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**B. What are your plans for any existing leases and/or Limited Purpose Aquaculture (LPA) licenses if the lease is granted? Will any existing leases and/or LPA licenses be relinquished if the lease is granted? If so, please indicate which ones.**

We have no plans to relinquish LPAs at this time.

DEI itself as an organization does not hold LPAs.

### 11. ENVIRONMENTAL CHARACTERIZATION

**Directions:** Using your knowledge of the area, describe the environment of the proposed lease site. Be sure to include units of measurement in your answers (i.e. feet, cm/s).

**A. What are the approximate depths at mean low water?**

This pound retains 5 feet of water at low tide.

**B. What are the approximate depths at mean high water?**

12.5 ft.

**C. Provide the approximate current speed and direction during the ebb and flow.**

Direction during ebb is to the west, during flow to the east, speed is approximately 1 knot.

**D. The following questions (D.1 through D.6) may be answered in writing or by submitting a video. If you plan to submit a video, please contact the Department prior to video collection.**

<p><b>1. What are the bottom characteristics (mud, sand, gravel, rock, ledge or some mix, etc.)?</b></p>
<p>The bottom characteristics are muddy ledge.</p>
<p><b>2. Describe the bottom topography (flat, steep rough, etc.).</b></p>
<p>Topography is uneven, typical of ledged areas.</p>
<p><b>3. Describe marine organisms by species or common names. Based on your personal observations or other sources of information, are these species abundant, common, or rare?</b></p>
<p>We most often observe periwinkles and green crabs in this pound. These organisms can be observed daily at the site year round.</p>
<p><b>4. Are there shellfish beds or fish migration routes in the surrounding area? If so, please describe.</b></p>
<p>No.</p>
<p><b>5. Describe the presence and extent of submerged aquatic vegetation, i.e. eelgrass, within the proposed lease area. Please include the date of this observation along with the method of observation. If submerged aquatic vegetation is observed, please also describe the abundance below and sketch the limits of the beds in the vicinity map.</b></p>
<p>No eelgrass has been observed in this pound. The shoreline around the proposed lease site is rocky (covered with knotted wrackweed, <i>Ascophyllum nodosum</i>). We have been making observations in this pound since 2000. Observations were made by visual inspection at high and low tides and when the pound gate has been opened and the pound is fully intertidal.</p>



**6.** Describe the general shoreline and upland characteristics (rocky shoreline, forested, residential, etc.)

The north side of the pond has an adjacent housing structure owned by Downeast Institute. The east side of the pond is on the Black Duck Cove Road. The south side of the pond is forested, dominated by red and white spruce. The west side of the pond is a cement and rock dam.

**E.** Is your proposed lease located within a Maine Department of Inland Fisheries and Wildlife designated Essential Habitat?

Yes  No

**Note:** The location of Essential Habitats in the State of Maine, along with information on how projects within these areas are reviewed, can be found here: <https://www.maine.gov/ifw/fish-wildlife/wildlife/endangered-threatened-species/essential-wildlife-habitat/index.html>

**If a project is located within an Essential Habitat,** applicants are strongly encouraged to contact the MDIFW Environmental Review Coordinator ([John.Perry@maine.gov](mailto:John.Perry@maine.gov), phone: 207-287-5254) prior to application submission.

**F.** Describe ice formation in the winter months at the proposed site.

Some ice does form on the pond during the winter but it has not frozen over completely in several years.

**Note:** Description of ice should incorporate data such as water temperature or ice out date over a ten-year period or observations over several (no less than 5) recent winters from the harbormaster, a municipal official such as a shellfish warden, local harbor committee, Marine Patrol Officer, fishing/aquaculture industry members, or the applicant.

Stating “no ice observed last year” will not be accepted as a complete answer.

## 12. EXISTING USES

<p><b>A.</b> Describe the existing uses of the proposed area in questions A.1 through A.5 below. Please include the a) type b) time of year c) frequency and d) proximity to the lease site for each existing use.</p>
<p><b>1. Commercial Fishing</b></p>
<p>None.</p>
<p><b>2. Recreational Fishing</b></p>
<p>None. This is a tidal impoundment on our property.</p>
<p><b>3. Boating Activities (please also include the distance to any navigable channel(s) from your proposed site at low water)</b></p>
<p>None. This is a tidal impoundment on our property.</p>
<p><b>4. Ingress and egress (i.e. coming and going) of shorefront property owners within 1,000 feet of the proposal (e.g. docks, moorings, landing boats on shore, etc.)</b></p>
<p>None. This is a tidal impoundment on our property.</p>
<p><b>5. Other uses (kayaking, swimming, etc.)</b></p>

None. This is a tidal impoundment on our property.

**B.** Are there private docks, moorings, or other access points within 1,000 feet of the proposed lease? If yes, please include approximate distance from the proposed lease.

Our private pier is approximately 400 feet from this pound. There are no moorings in the pound or within 1,000 feet of the site.

**C.** Are there public beaches, parks, docking facilities or federally, state, or municipally conserved lands within 1,000 feet of the proposed lease site? If yes, please describe and include approximate distances from proposed lease.

Yes, there is a Nature Conservancy trailhead 600 feet from the eastern boarder of the site.

**D.** Are there any Limited Purpose Aquaculture (LPA) licenses or aquaculture leases within 1,000 feet of your proposed lease site? If yes, please list their acronyms below.

Current and pending aquaculture leases and active LPA licenses may be found here:  
<https://www.maine.gov/dmr/aquaculture/leases/index.html>

No.



### 13. RIPARIAN LANDOWNERS AND SITE ACCESS

A. If your lease is within 1,000ft of shorefront land (**which extends to mean low water or 1,650 ft. from shore, whichever is less, according to NOAA charts**), the following supporting documents are required:

1. A labeled copy of a tax map(s) depicting the location of the proposed lease site and including the following elements:
  - Label the map “Tax Map: Town of (name of town).”
  - Legible scale
  - Tax lot numbers clearly displayed
  - The boundaries of the proposed lease

See page 35 and 36.

2. Please use the Riparian Landowner List (included on the next page) to list the name and address of every shorefront landowner within 1,000ft of the proposed lease site. Have the tax collector or clerk of the municipality certify the list. Refer to the riparian determination guidance document to ensure all riparian landowners are included:  
<https://www.maine.gov/dmr/aquaculture/forms/documents/RiparianDetermination.pdf>

*Note:* When the application and riparian list are both ready to be submitted, you may choose to email a copy of the riparian list and proposed lease coordinates to [DMRAquaculture@maine.gov](mailto:DMRAquaculture@maine.gov) for staff to verify that all required parcels are included on the list *before* having it certified by the municipality. DMR will not verify a riparian list multiple times, so please ensure there will be no additional changes to the application before emailing the riparian list for verification.

3. If any portion of the site is intertidal, you need to complete the steps outlined in the section titled: “Landowner/Municipal Permission Requirements”.

**B.** Will your access to the lease area be across riparian land?

Yes    No

**Note:** If you selected yes, you will need to complete the landowner permission requirements included in “Landowner/Municipal Permission Requirements” of this application.

**C.** How will you access the proposed site?

Through our own property, which surrounds the lease.

**D. How will your proposed activities affect riparian ingress and egress?**

No effect.

**RIPARIAN LANDOWNER LIST**

***\*THIS LIST MUST BE CERTIFIED\****

On this list, please show the current landowners' names and mailing addresses as listed in the municipal tax records for all riparian shorefront parcels within 1,000 feet of the proposed lease site along with the map and lot number for each parcel. **It is the applicant's responsibility to assemble the information for the Town Clerk to certify.** The Town Clerk *only* certifies that the information is correct according to the Town's records. Once you have completed the form, ask the Town Clerk to complete the certification section below. If the parcels are within more than one municipality, provide a separate, certified riparian list for each municipality.

See attachment


**TOWN OF: Beals**

**Please use additional sheets if necessary and attach hereto.**

**CERTIFICATION**

I, \_\_\_\_\_, Town Clerk for the Town of \_\_\_\_\_ certify that the names and addresses of the property owners listed above, as well as the map and lot numbers, are those listed in the records of this municipality and are current as of this date.

**SIGNED: \_\_\_\_\_ DATE: \_\_\_\_\_**

## 14. TECHNICAL CAPABILITY

Provide information regarding professional expertise. Attaching resume or documentation of practical experience necessary to accomplish the proposed project would satisfy this requirement.

See attached.

## 15. FINANCIAL CAPABILITY

### A. Financial Capability

Please provide a letter from a financial institution indicating the applicant has an account in good standing.

**Note:** Any financial information you submit with your application is part of the public record. Please exercise discretion when submitting financial information.

See attached.

### B. Cost Estimates

Please provide cost estimates of the proposed aquaculture activities.

We estimate the cost of these activities at \$50,000/year.



**16. ESCROW ACCOUNT OR PERFORMANCE BOND**

Check the category that describes your operation:

Check Here	Lease Category	Amount of Required Escrow or Performance Bond
<input type="checkbox"/>	No gear/structure, no discharge	\$500.00
<input type="checkbox"/>	No gear/structure, discharge	\$500.00
<input type="checkbox"/>	≤ 400 square feet of gear/structure, no discharge	\$1,500.00
<input checked="" type="checkbox"/>	>400 square feet of gear/structure, no discharge	\$5,000.00*
<input type="checkbox"/>	Gear/Structure, discharge	\$25,000.00

\*DMR may increase the bond/escrow requirements for leases with more than 2,000 square feet of structure.

I, (*printed name of applicant*) Dianne Tilton have read DMR Aquaculture Regulations Chapter 2.64(10) (D) and if this proposed lease is granted by DMR, I will either open an escrow account or obtain a performance bond, in the amount determined by the lease category.

*Dianne Tilton*

July 9, 2024

**Applicant Signature**

**Date**

*Note: Add title if signing on behalf of a corporate applicant.*

**ADDITIONAL APPLICANTS:** Each applicant must sign this section indicating that they will open an escrow account or obtain a performance bond. Use the space below for additional persons listed on the application. You may attach additional pages, if necessary.

I, (*printed name of applicant*) Dianne Tilton have read DMR Aquaculture Regulations Chapter 2.64(10) (D) and if this proposed lease is granted by DMR, I will either open an escrow account or obtain a performance bond, in the amount determined by the lease category.

*Dianne Tilton*

July 9, 2024

**Applicant Signature**

**Date**

*Note: Add title if signing on behalf of a corporate applicant.*

**17. APPLICANT SIGNATURE PAGE**

I hereby state that the information included in this application is true and correct. I have also read and understand the requirements of the Department’s rules governing aquaculture and the application instructions pertaining to the standard lease process.

Printed name: Dianne Tilton

Title (*if corporate applicant*): Executive Director, Downeast Institute

Signature:   
Feb. 29, 2024

Date:

18 U.S.C. Section 1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly and willfully falsifies, conceals, or covers up any trick, scheme, or disguises a material fact or makes any false, fictitious or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statements or entry, shall be fined not more than \$10,000 or imprisoned not more than five years or both.

**Note:**

- All applicants must sign and date this page. Please use the space below, if additional signatures are required.
- Corporate applicants, please be sure to include the title(s) (i.e. President, Treasurer, etc.) of the individual(s) signing on the company’s behalf.

**Additional Applicant:**

Printed name: \_\_\_\_\_

Title (*if corporate applicant*): \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_



**18. LANDOWNER/MUNCIPAL PERMISSION REQUIREMENTS (if applicable)**

**Directions:** If any portion of the site is intertidal, you need to complete the steps outlined below.

**Step I: Obtain written permission from all intertidal landowners.**

Pursuant to DMR Regulations Chapter 2.10(3)(G) the Department requires *written permission of every owner of intertidal land in, on, or over which the activity will occur*. It is your responsibility to obtain written permission and include it with your application materials. Please note that the Department does not provide forms for landowner permission.

**Step II: Determine if the municipality where your site is located has a shellfish conservation program.**

Pursuant to 12 MRSA §6072(3) *In any municipality with a shellfish conservation program under section 6671, the Commissioner may not lease areas in the **intertidal zone** within the municipality without the consent of the municipal officers.*

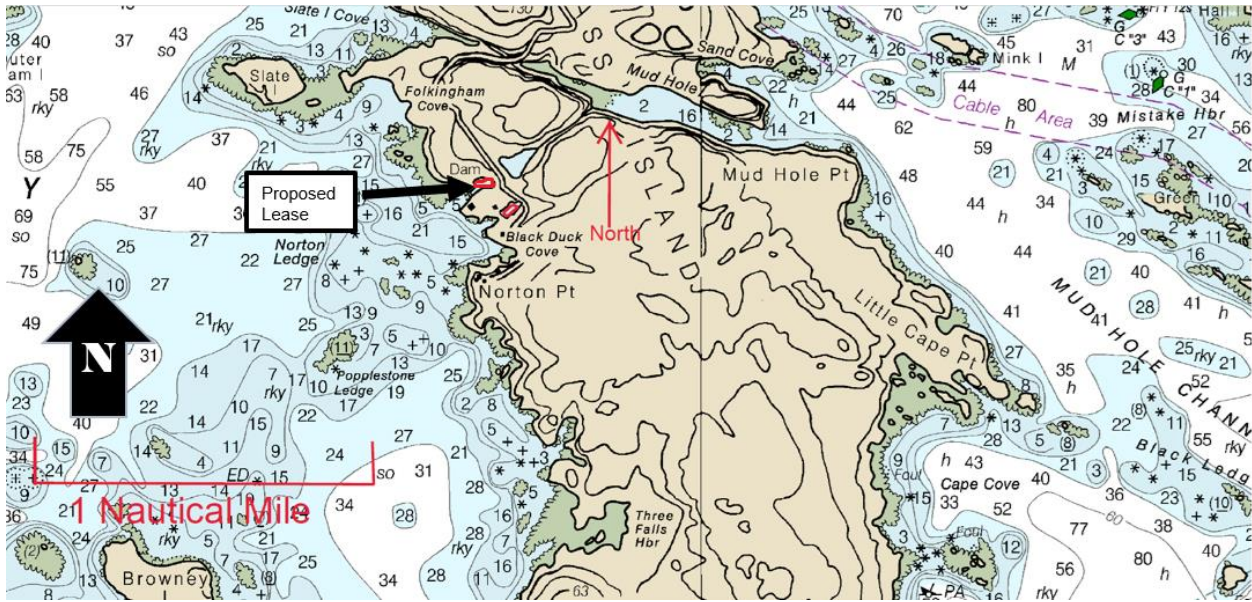
If the municipality where the proposed lease site is located has a shellfish conservation program, it is your responsibility to obtain consent for the proposed lease site from the municipal officers (i.e. the selectmen or councilors of the town, or the mayor and aldermen or councilors of a city.) Consent means a majority vote of the municipal officers as recorded in a public meeting.

It is your responsibility to contact the municipality and determine if they have a shellfish conservation program. Best practices would include discussing your plans with shellfish committee members, but only the consent of municipal officers is required.

Does the municipality, where the proposed site is located, have a shellfish conservation program?  Yes  No

**If you answered yes**, please attach documentation from a public meeting demonstrating that a majority of municipal officers have consented to your proposal.

# Vicinity Map



**7. Site Development**  
**A1. Gear Drawings**

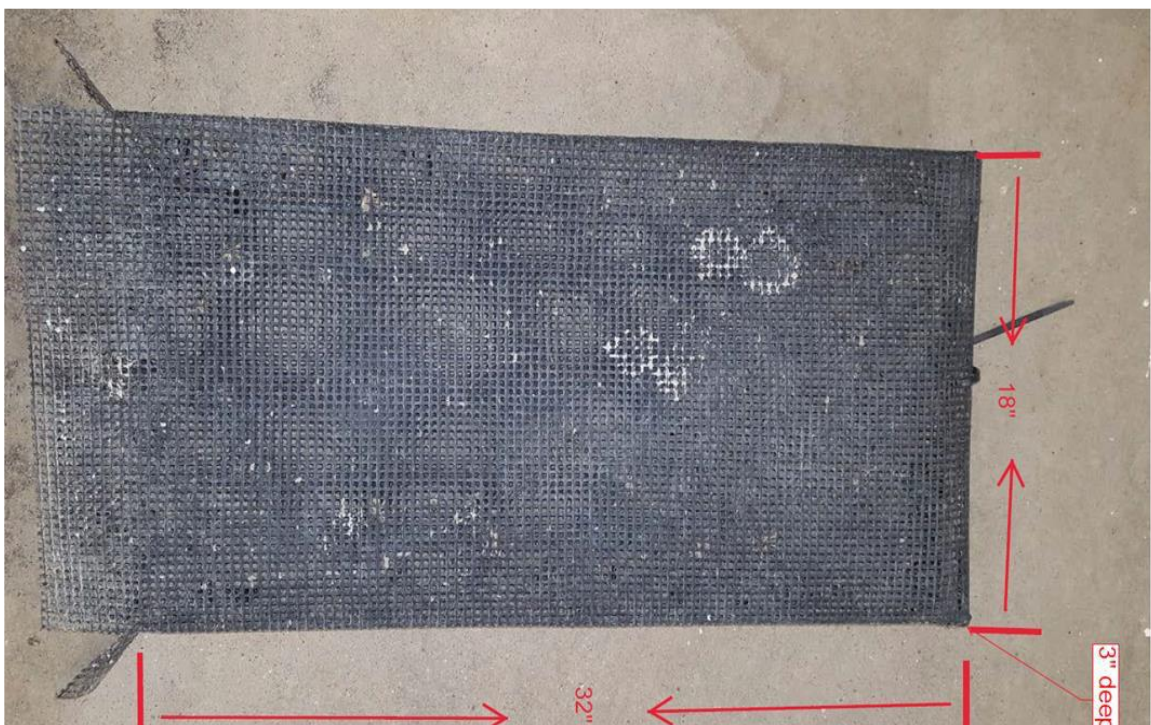
1) Floating Trays



Floating wooden trays

2) ADPI Oyster Bags (floating in the Spring to Fall, submerged in the winter)

ADP Bags – submerged or floating



### 3) OysterGro Cages



## 6-bag Oyster Ranch, Squared Bags

67½" L x 36" W x 9" H ( pontoons)

Float/sink capabilities for overwintering gear, 8ga 4½" x 4½" vinyl-coated black wire, heavy duty door closures, aluminum float hangers, wire reinforcements at corners and stress points.

Category: Aquaculture

Tag: aquaculture

### 4) Flotation Line/Rope

DEPARTMENTS / FISHING COMMERCIAL / ROPES & LINES / HYLINER POT WARP STEEL LINER SINK 1/2" (SOLD BY THE POUND)



## HYLINER POT WARP STEEL LINER SINK 1/2" (SOLD BY THE POUND)

★★★★★  
no reviews for this product. [Login to place a review.](#)

Hyliner steel liner sinking pot warp. 1/2". Sold by the pound in full coils only. Coil is approximately 65lbs. and 1200 feet. **When ordering potwarp please order 65lbs. per coil** and we will adjust your order according to the specific weight of the coil.

**\$3.40**

### 5) Corner Markers-Yellow



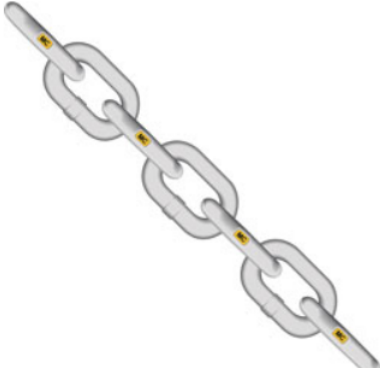
## HARDSHELL LOW DRAG BUOY 6" X 13"

★★★★★  
no reviews for this product. [Login to place a review.](#)

Hardshell Low Drag Buoy. Special shape reduces drag and makes for easy pot retrieval. 6" x 13".



### 6) Anchor chain



## CHAIN G 30 SC 1.00 1" MOORING CHAIN (60'/DRUM)



no reviews for this product. [Login to place a review.](#)



**WARNING:** This product contains chemicals known to the state of California to cause cancer, and birth defects or other reproductive harm. For more information visit [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



### 7) Cinder Block anchors



8" x 8" x 16"

## 7B. Maximum Structure and Mooring System Schematic

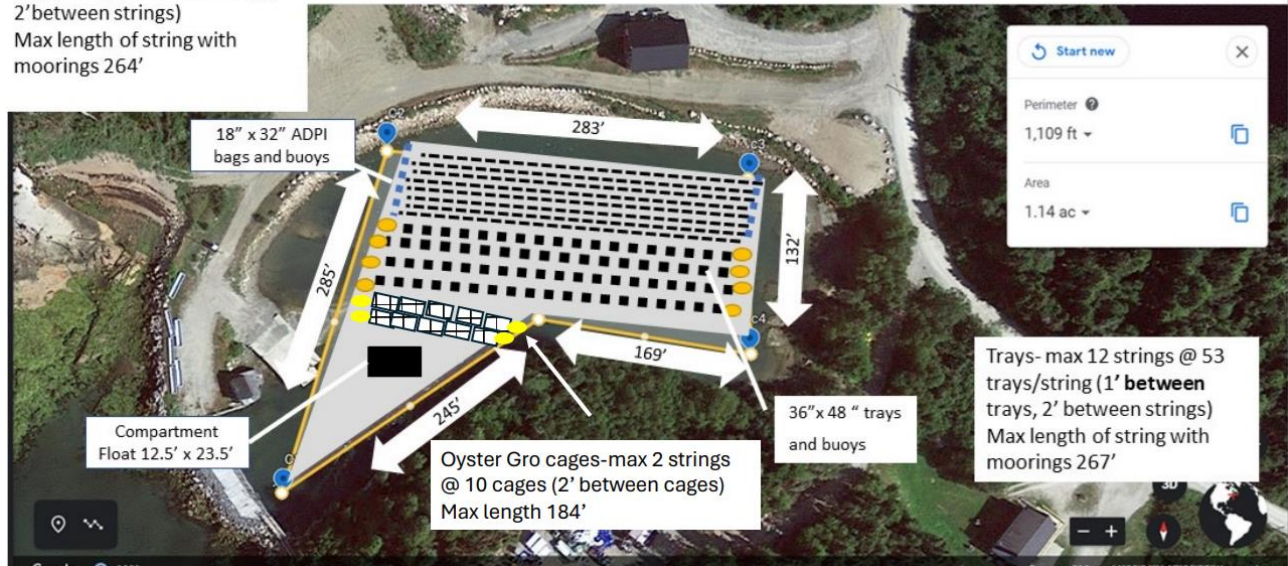
**Overhead View-** Elmer's Pound



## 7B. Maximum Structure and Mooring Systems Overhead View

### a) Overhead View

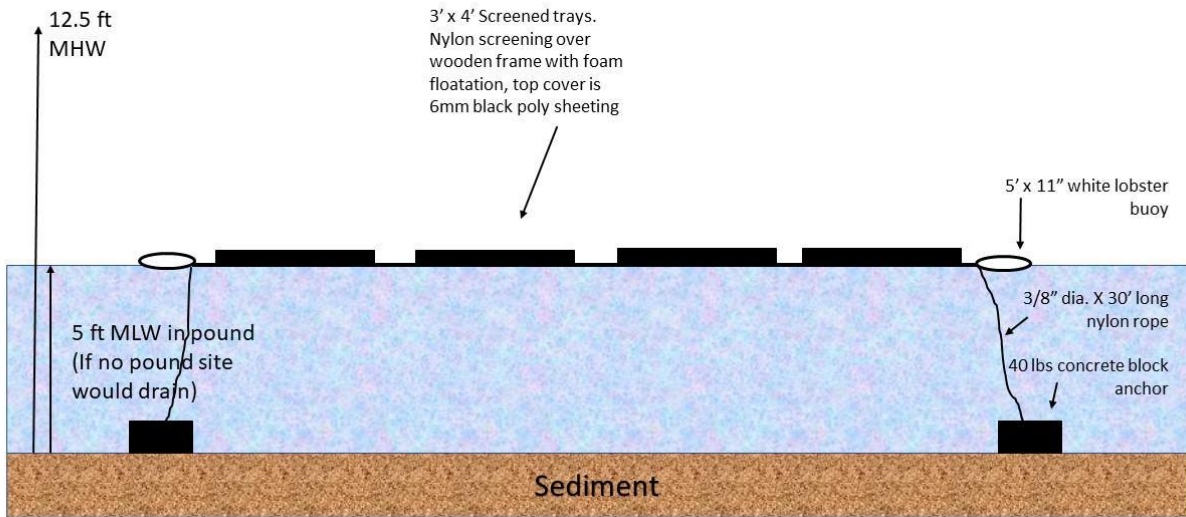
ADPI Bags- max 14 strings @ 72 bags/string (1' between bags, 2' between strings)  
Max length of string with moorings 264'



## B. Cross section View

### Floating Wooden Trays

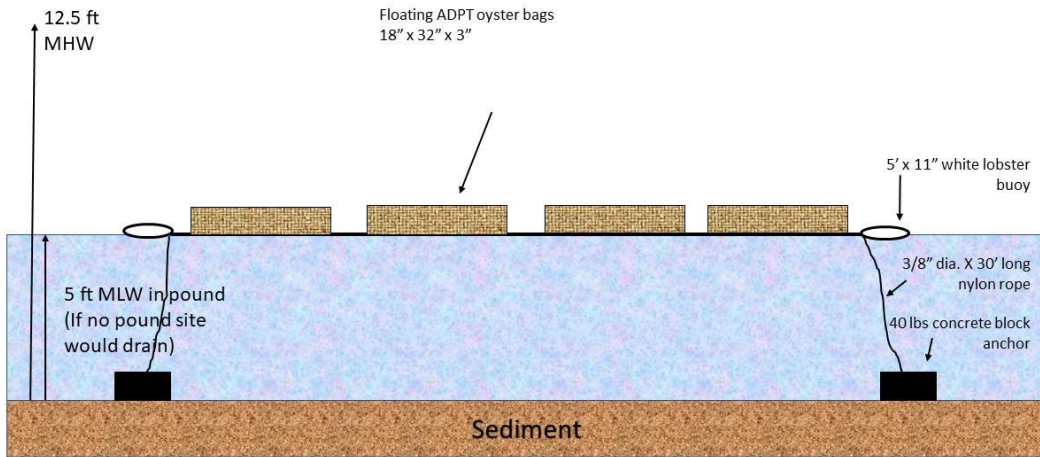
Floating Trays Cross Section View: May-Nov



**Floating ADPI Oyster Bags with hollow floats made from extruded plastic  
7Bb Cross SECTION VIEW**

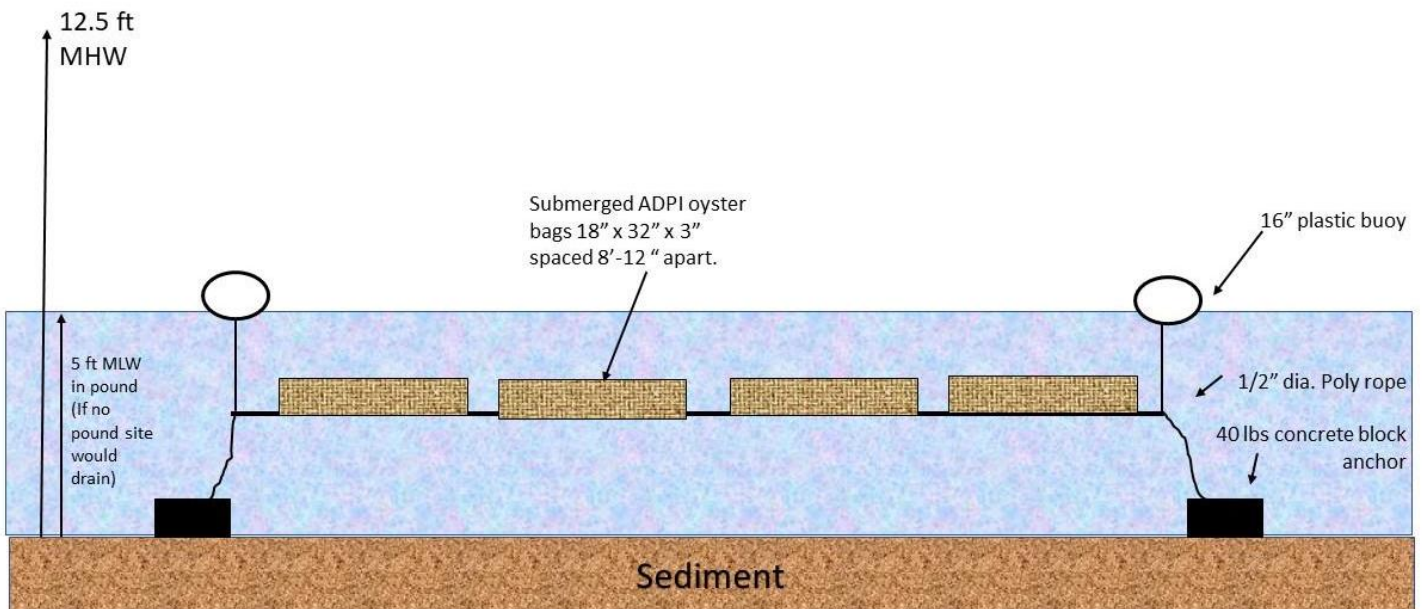
**7Bb Cross SECTION VIEW**  
Floating ADPI Oyster Bags

ADPI Cross Section View: May-Nov



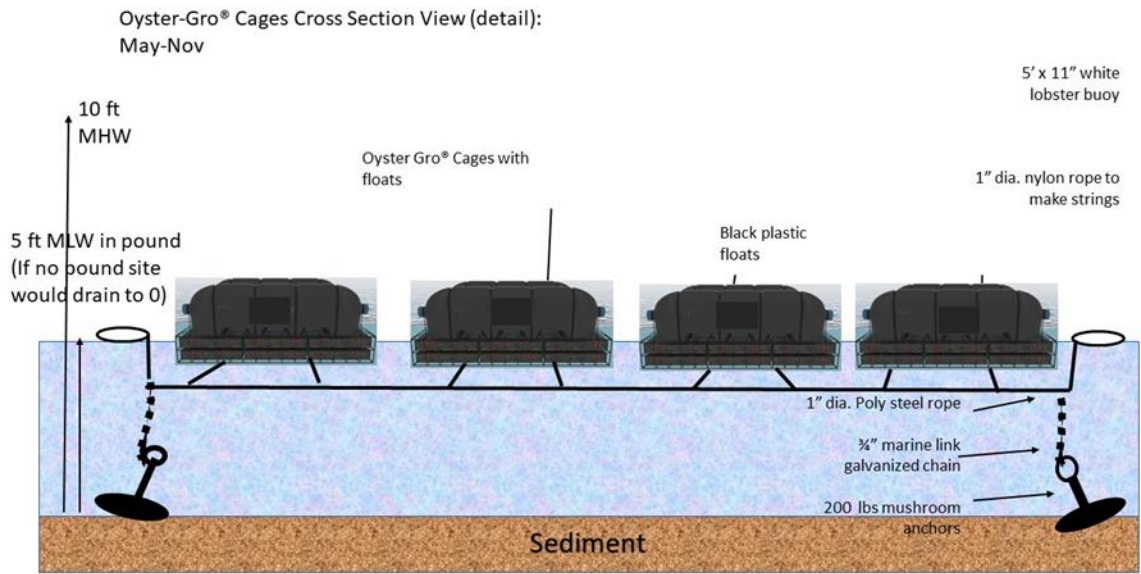
### 7Bb) CROSS SECTION VIEW

#### Submerged ADPI Oyster Bags for Overwintering (November to May)



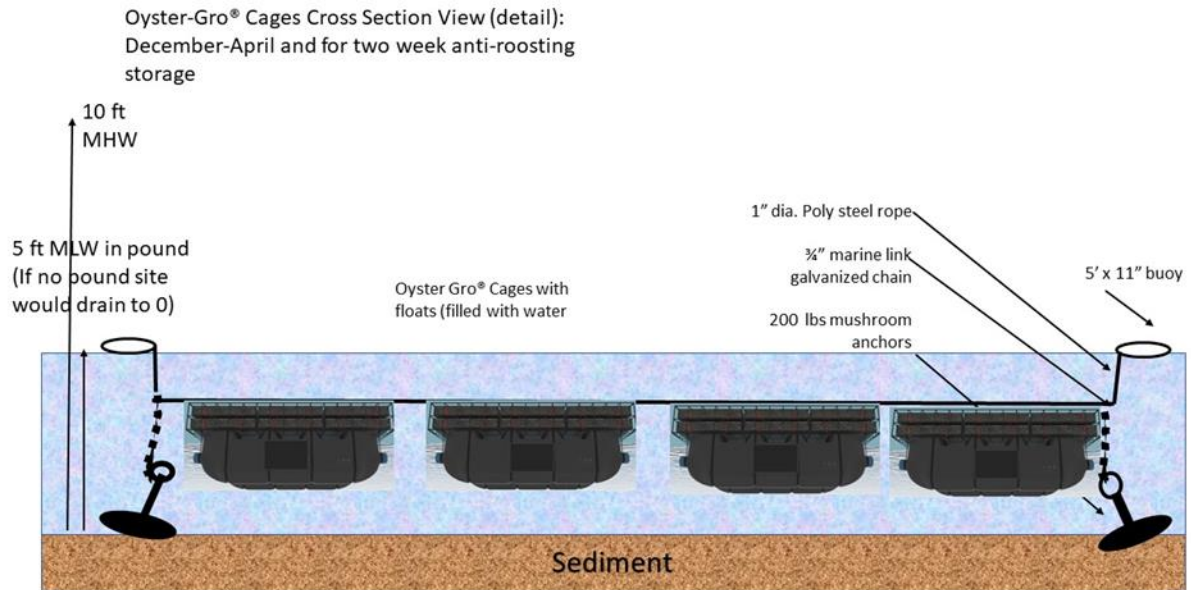
### Cross Section View

# Oyster-Gro cages (May-November)



## Cross Section View

### Oyster Gro cages (December- April)



## E. Equipment Layout

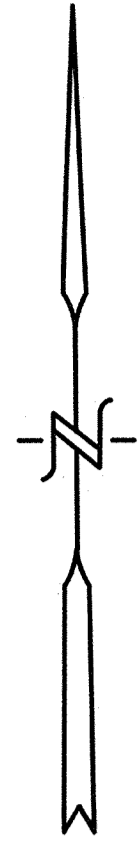
Elmer's Side View  
From the West



Elmer's Side View  
From the East

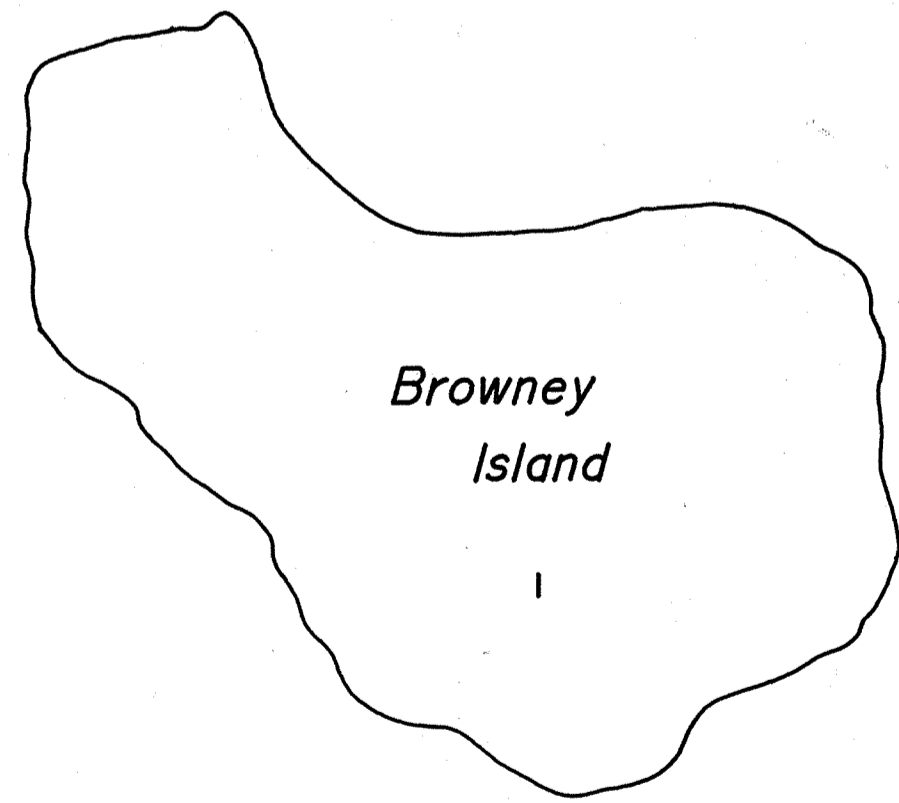




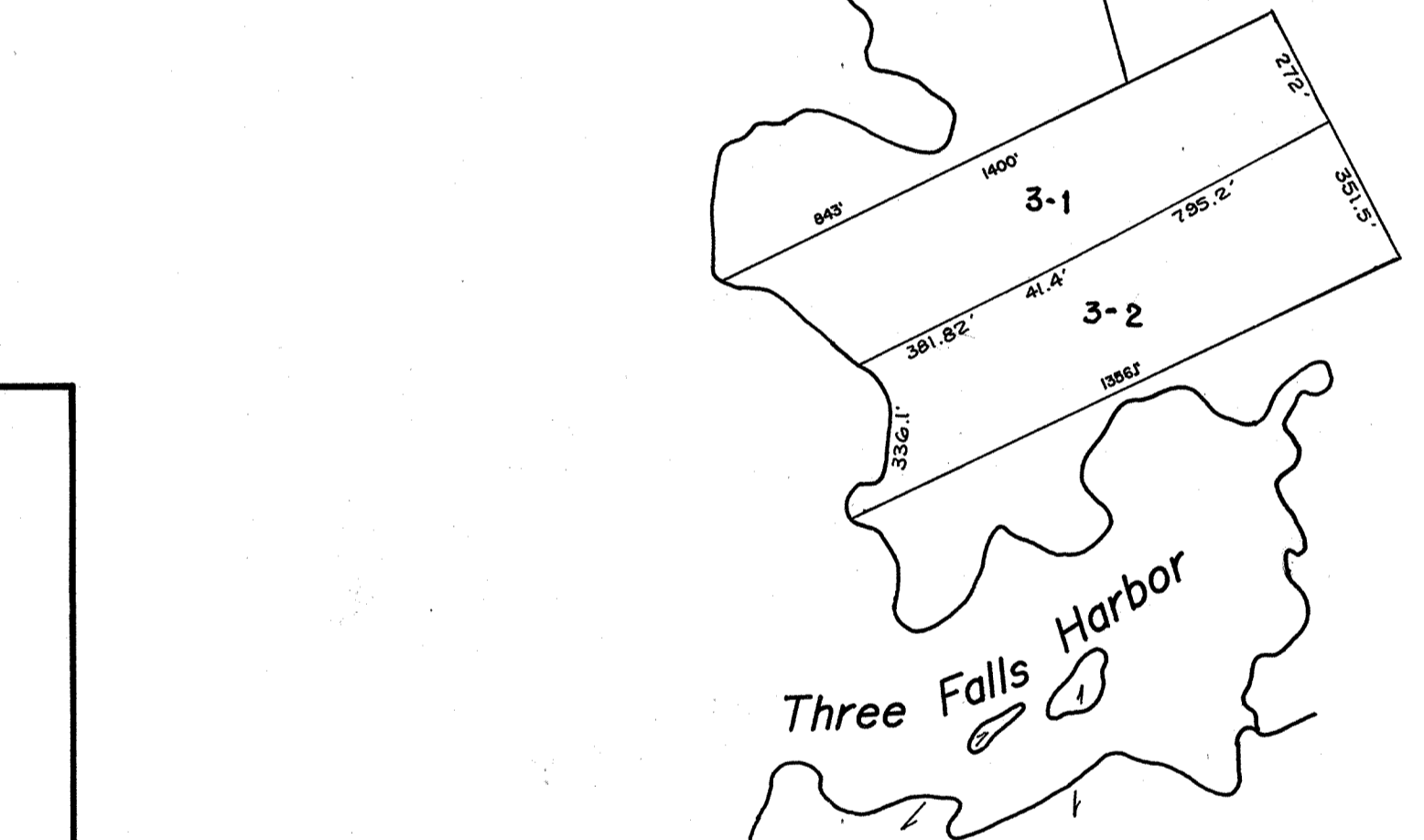
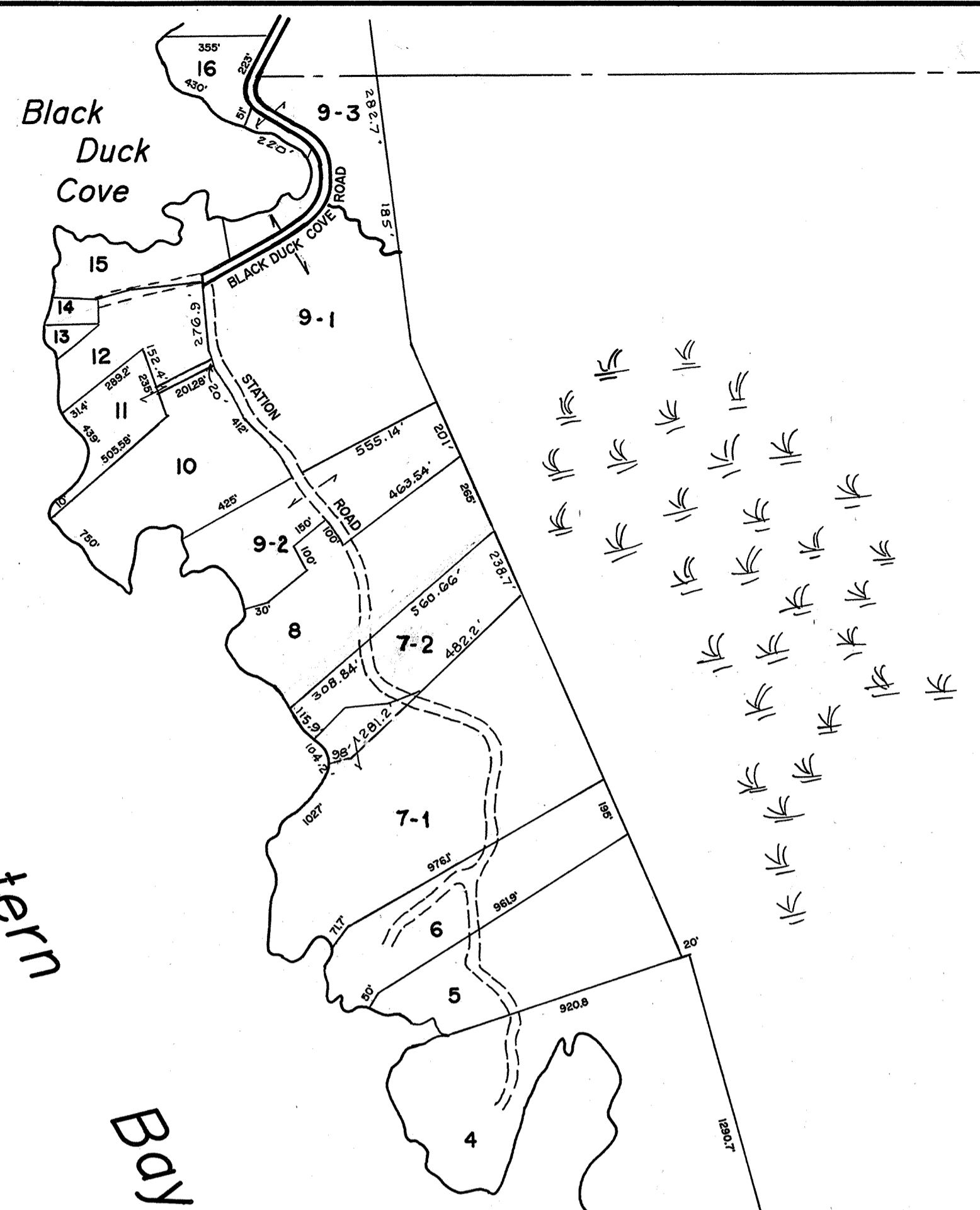


Western Bay

Eastern Bay



Browney Island

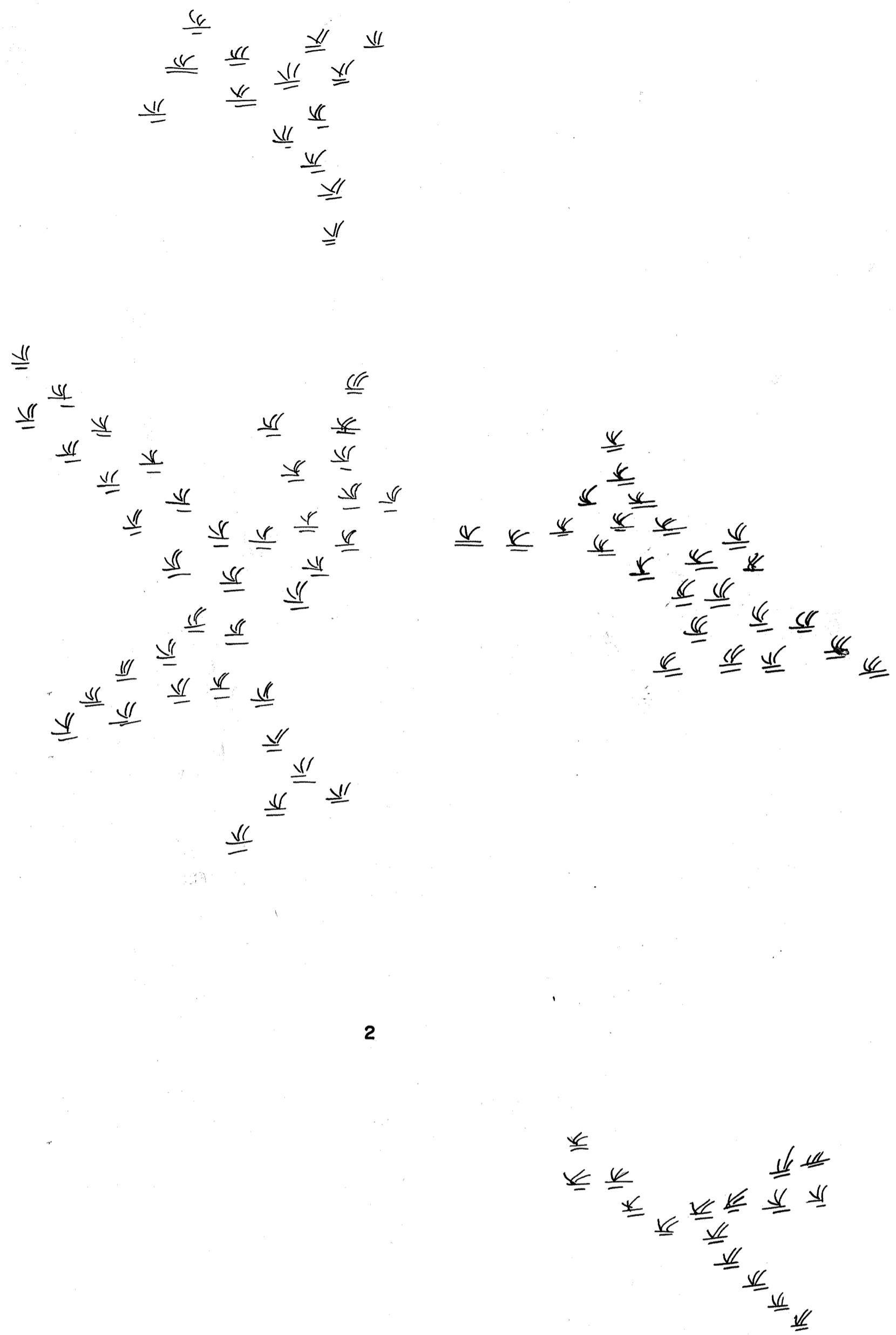


Three Falls Harbor

Three Falls Point

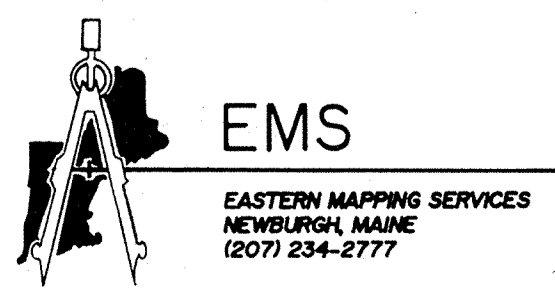
4

6



Little Cape Point

Cape Cove



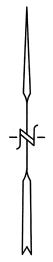
TAX MAPS ARE NOT SURVEYS. THEY ARE COMPILED FROM AERIAL PHOTOGRAPHY, EXISTING SURVEYS, DEEDS, AND LAND OWNERS DESCRIPTIONS. THEY ARE TO BE USED ONLY FOR ASSESSMENT PURPOSES, AND NOT FOR CONVEYANCES.

DATE OF AERIAL PHOTOGRAPHY APRIL 29, 1996  
DATE OF MAP COMPLETION APRIL 1, 1998  
MAP SCALE 1 INCH = 400 FEET

LEGEND  
PARCEL NUMBERS ..... 2  
MATCH LINE .....  
ADJACENT MAPS ..... 3

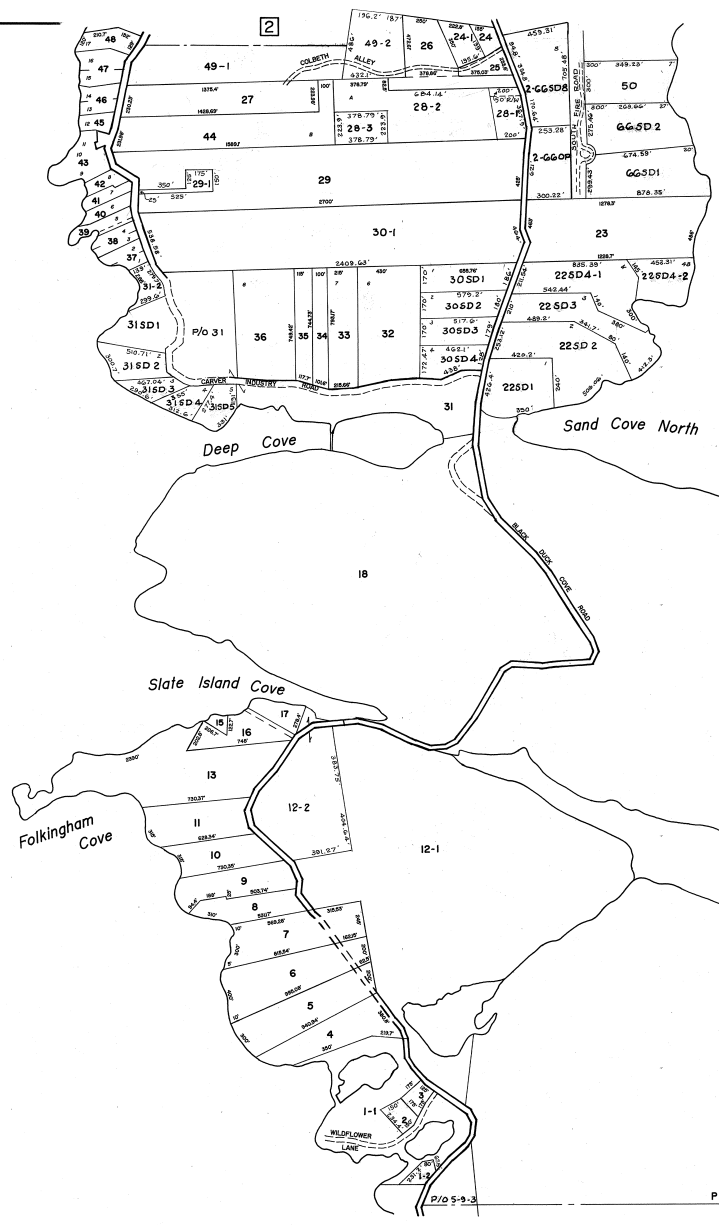
TAX MAP  
**TOWN OF BEALS**  
WASHINGTON COUNTY, MAINE

MAP NUMBER  
**5**



Western Bay

Eastern Bay



Green Island

Mink Island

Slate Island

Folkingham Cove

Slate Island Cove

Deep Cove

Sand Cove North

Sand Cove

Mud Hole

Mud Hole Point

P/O 5-2



TAX MAPS ARE NOT SURVEYS. THEY ARE COMPILED FROM AERIAL PHOTOGRAPHS, EXISTING SURVEYS, DEEDS, AND LAND OWNERS DESCRIPTIONS. THEY ARE TO BE USED ONLY FOR ASSESSMENT PURPOSES, AND NOT FOR CONVEYANCES.

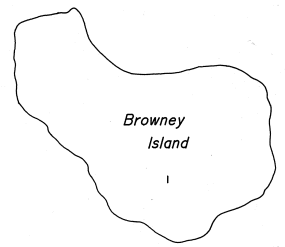
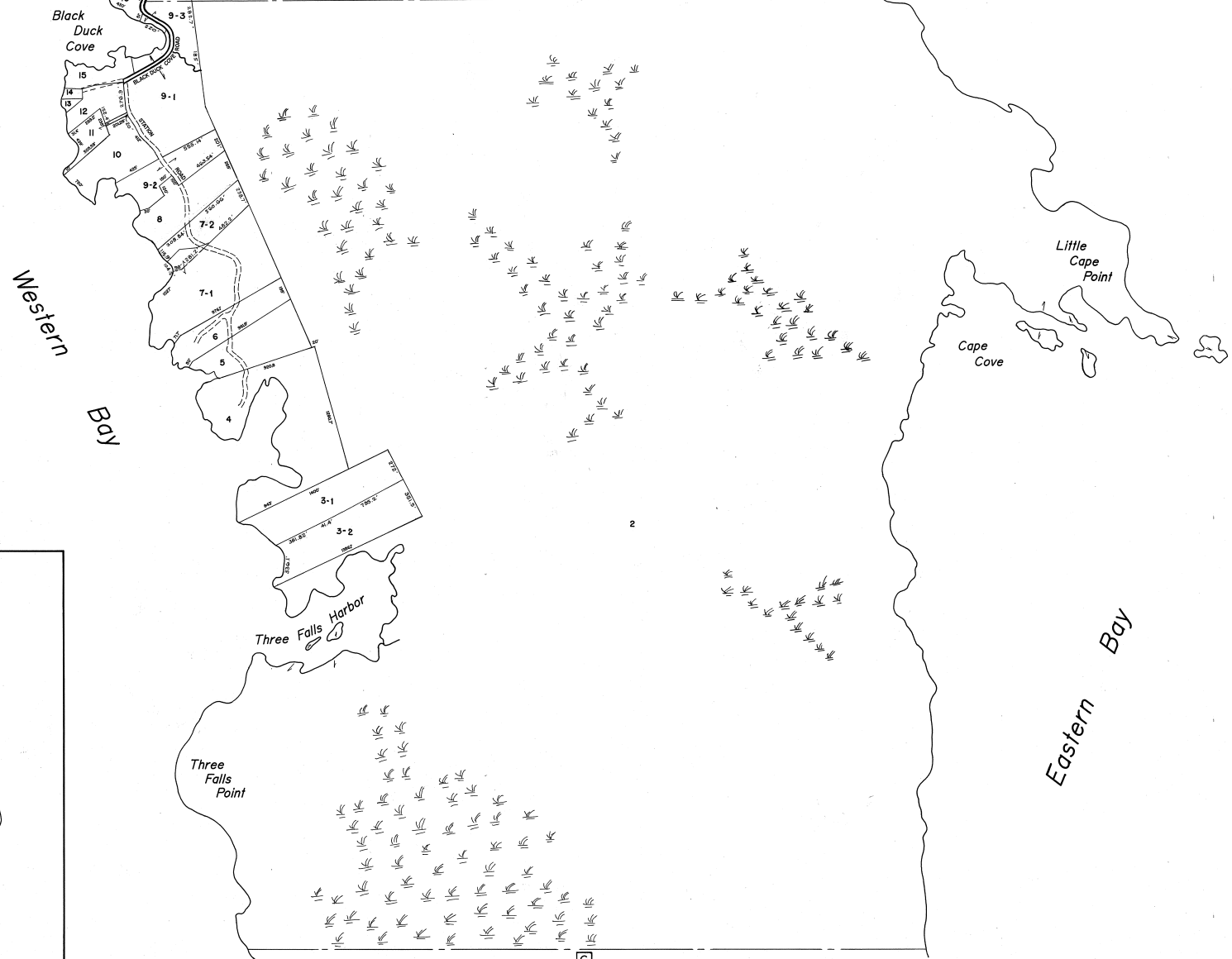
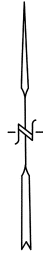
DATE OF AERIAL PHOTOGRAPHY APRIL 29, 1996  
DATE OF MAP COMPLETION APRIL 1, 1998  
MAP SCALE 1 INCH = 400 FEET

LEGEND  
PARCEL NUMBERS ..... 2  
MATCH LINE .....  
ADJACENT MAPS ..... [3]

TAX MAP  
TOWN OF BEALS  
WASHINGTON COUNTY, MAINE

MAP NUMBER  
4





**EMS**  
 EASTERN MAPPING SERVICES  
 NEWBURN, MAINE  
 (207) 234-2777

TAX MAPS ARE NOT SURVEYS. THEY ARE  
 COMPILED FROM AERIAL PHOTOGRAPHY, EXISTING  
 SURVEYS, DEEDS, AND LAND OWNERS DESCRIPTIONS.  
 THEY ARE TO BE USED ONLY FOR ASSIGNMENT PURPOSES,  
 AND NOT FOR CONVEYANCES.

DATE OF AERIAL PHOTOGRAPHY APRIL 29, 1996  
 DATE OF MAP COMPLETION APRIL 1, 1998  
 MAP SCALE 1 INCH = 400 FEET

LEGEND  
 PARCEL NUMBERS ..... 2  
 MATCH LINE ..... 3  
 ADJACENT MAPS ..... 3

TAX MAP  
**TOWN OF BEALS**  
 WASHINGTON COUNTY, MAINE

MAP NUMBER  
**5**



**MAINE DEPARTMENT OF MARINE RESOURCES**

*Aquaculture Division, 21 State House Station, Augusta, ME 04333-0021 (207) 624-6567*

**CORPORATE APPLICANT FORM**  
**For Standard and Experimental Aquaculture Lease Applications**

Corporations or partnerships that apply for aquaculture leases in the State of Maine must complete this form. Corporations must submit information as requested under A. Corporate Applicant. Partnerships must submit information as requested under B. Partnership Applicant.

**A. Corporate Applicant**

**Note:** You must attach a copy of the Articles of Incorporation (Inc.) or Certificate of Formation (LLC) to your application.

1. Name of Corporation: Downeast Institute for Applied Marine Research & Education

2. Date of incorporation: Dec 26, 1995 State of incorporation: Maine

3. List the names, addresses, and titles of all officers:

Name	Address	Title
attached		

**Please use additional sheets if necessary and attach to the application.**

4. List the names and addresses of all directors/members:

Name	Address
attached	

**Please use additional sheets if necessary and attach to the application.**

5. Has the corporation, or any stockholder, director, or officer applied for an aquaculture lease for Maine lands in the past?  Yes  No

If you selected “yes,” please indicate who applied for the lease and the status of the application or lease. Ralph Smith EAST OP; Sam Chapman, SHE SQ2

6. List the names and addresses of all stockholders who own or control at least 5% of the outstanding stock and the percentage of outstanding stock currently owned or controlled by each stockholder.

Name	Address	Percentage of Owned Stock
NA Nonprofit corporation		

**Please use additional sheets if necessary and attach to the application.**

7. List the names and addresses of stockholders, directors, or officers owning an interest, either directly or beneficially, in any other Maine aquaculture leases, as well as the quantity of acreage from existing aquaculture leases attributed to each such person based on the percentage of owned stock listed in question 6. If none, write, “None.”

Name	Address	Lease Acronym	Acreage
Ralph Smith	48 Western Ave, Jonesport, ME	EAST OP	89.70
Sam Chapman	50 Bremen Rd, Waldoboro ME 04572	SHE SQ2	.57

**Please use additional sheets if necessary and attach to the application.**

8. Has the corporation or any officer, director, member, or shareholder listed in item 5 above ever been arrested, indicted, convicted of, or adjudicated to be responsible for any violation of any marine resources or environmental protection law, whether state or federal?

Yes  No

If you selected “yes”, please provide details.

**B. Partnership Applicant**

**Note:** You must attach a copy of either the Certificate of Limited Partnership or documentation of the formation of a General Partnership to your application.

1. Name of Partnership: \_\_\_\_\_

2. Date of formation: \_\_\_\_\_ State of partnership: \_\_\_\_\_

3. List the names, addresses, and ownership shares of all partners:

Name	Address	Ownership Shares

**Please use additional sheets if necessary and attach to the application.**

4. Has the partnership, or any partner applied for an aquaculture lease for Maine lands in the past?  Yes  No

If you selected “yes,” please indicate who applied for the lease and the status of the application or lease.

5. List the names and addresses of any partner owning an interest, either directly or beneficially, in any other Maine aquaculture leases, as well as the quantity of acreage from existing aquaculture leases attributed to each such person, based on their ownership shares from question 3.

Name	Address	Lease Acronym	Acreage


**Please use additional sheets if necessary and attach to the application.**

6. Has the partnership or any partner been arrested, indicted or convicted of or adjudicated to be responsible for any violation of marine resources or environmental protection law, whether State or Federal?

Yes  No

If you selected "yes", please provide details.

## Downeast Institute 2023

### BOARD OF DIRECTORS

#### Board Chair

---

Lynn Alley\*

Retired Science Teacher (JBHS)  
Jonesport

Christopher Bartlett

Maine Sea Grant/University of Maine Cooperative Extension  
Eastport, ME (Personnel Committee)

#### Vice Chair

---

Dr. Sherrie Sprangers

Science Professor at University of Maine at Machias  
Machias, ME (Finance Committee)

Sam Chapman\*

Retired Shellfish Specialist  
Waldoboro, ME

#### Clerk/Treasurer

---

Jane Hinson\*

Retired, Director of Special Programs, UMM  
Machias, ME (Finance Committee)

Dr. Gayle Kraus

Marine Ecology Professor, UMM  
Machias, ME

Jonathan Alley

Machias Savings Bank  
Addison, ME (Finance Committee)

Wendell Bradford

AC Inc., Shellfish Dealer  
Beals, ME

Dean Girdis

Open Energy Advisors  
Washington, DC

Jason Alley

Fisherman  
Jonesport, ME

Dr. Brian Beal\*

Science Professor at University of Maine at Machias  
Machiasport, ME (Personnel Committee)

Ralph Smith

Moosabec Mussels  
Jonesport, ME

Tom Haslett

TILT Investments  
Lincoln, MA

Peter Greene

Machias Savings Bank  
Addison, ME (Personnel Committee)

\*Founder

For Use By The Secretary of State	
File No. ....	
Fee Paid .....	
C. B. ....	
Date .....	

NONPROFIT CORPORATION

STATE OF MAINE

ARTICLES OF INCORPORATION

(CHECK ONLY IF APPLICABLE)

This is a Domestic Condominium Corporation.

<i>Mary Cooper</i> Deputy Secretary of State
A True Copy When Attested By Signature
<i>Mary Cooper</i> Deputy Secretary of State

Pursuant to 13-B MRSA §403, the undersigned, acting as incorporator(s) of a corporation, adopt(s) the following Articles of Incorporation:

FIRST: The name of the corporation is Beads Island Regional Shellfish Hatchery, Inc.

SECOND: The corporation is organized for all purposes permitted under Title 13-B, MRSA, or, if not for all such purposes, then for the following purpose or purposes:

THIRD: The name of its Registered Agent and address of registered office (the registered agent must be a Maine resident, whose business office is identical with the registered office; or a corporation, domestic or foreign, profit or nonprofit, having an office identical with such registered office.)

Everett Johnson, Clerk HCR 71, Box 55  
Machias, ME 04654

B.I.R.S.H., PO Box 83 Harrington 04643 Beads Island 04641

(street address (not P.O. Box), city, state and zip code)

PO Box 83, Harrington, ME 04643

(mailing address if different from above)

FOURTH: The number of directors (not less than 3) constituting the initial board of directors of the corporation, if they have been designated or elected, is sixteen.

The minimum number of directors (not less than 3) shall be sixteen and the maximum number of directors shall be twenty.

FIFTH: Members:  There shall be no members.  
 There shall be one or more classes of members, and the information required by §402 is as follows:

SIXTH:  (Check if this article is to apply)

No substantial part of the activities of the Corporation shall be the carrying on of propaganda, or otherwise attempting to influence legislation, and the Corporation shall not participate in or intervene in (including the publication or distribution of statements) any political campaign on behalf of any candidate for public office.

NEW

SEVENTH:  (Check if this article is to apply. Then fill in reference number of Section 501(c)( ? ) in first paragraph below.)

Upon the dissolution of the Corporation or the termination of its activities, the assets of the Corporation remaining after the payment of all its liabilities shall be distributed exclusively to one or more organizations organized and operated exclusively for such purposes as shall then qualify as an exempt organization or organizations under Section 501(c)( 3 ) of the Internal Revenue Code of 1986, as amended, and as a charitable, religious, eleemosynary, benevolent or educational corporation within the meaning of Title 13B, of the Maine Revised Statutes as amended.

No part of the net earnings of the Corporation shall inure to the benefit of any member, director, or officer of the Corporation, or any private individual (except that reasonable compensation may be paid for services rendered to or for the Corporation in carrying out one or more of its purposes), and no member, director, or officer of the Corporation, or any private individual, shall be entitled to share in the distribution of any of the corporate assets on dissolution of the Corporation.

EIGHTH: Other provisions of these articles, if any, including provisions for the regulation of the internal affairs of the corporation, and distribution of assets on dissolution or final liquidation:

"This corporation is not organized or operated for the benefit of private interest, such as the creator or his family, shareholders of the organization, other designated individuals, or persons controlled, directly or indirectly, by such private interests.

Notwithstanding any other provision of these articles, the corporation shall not carry on any other activities not permitted to be carried on (a) by a corporation exempt from Federal Income tax under section 501(c)(3) of the Internal Revenue Code of 1954, (or the corresponding provision of any future United States Internal Revenue Law) or (b) by a corporation, contributions to which are deductible under section 170(C)(2) of the Internal Revenue Code of 1954 (or corresponding provision of any future United States Internal Revenue Law."

Dated: October 27, 1995

INCORPORATORS

ADDRESSES

① Jane E. Henson  
(signature)  
JANE E. HENSON  
(type or print name)

Street HER 70 BOX 28  
MACHIAS, ME 04654  
(city, state and zip code)

② Burrill P. Johnson Jr  
(signature)  
Burrill P. Johnson Jr  
(type or print name)

Street HER 71 Box 55  
Machias, ME 04654  
(city, state and zip code)

③ Will Hopkins  
(signature)  
Will Hopkins  
(type or print name)

Street 4 FAVOR ST., EASTPORT, ME. 04631

④ Brian Beal  
(signature)  
Brian Beal  
(type or print name)

Street RR # 1; Box 511 Marshfield, Maine 04654  
(city, state and zip code)

⑤ Susan K. White  
(signature)  
Susan K. White  
(type or print name)

Street 97 Summer St.  
Hampden, Me. 04444  
(city, state and zip code)

⑥ Dana E. Wallace  
(signature)  
Dana E. Wallace  
(type or print name)

Street 1026 MERRILL PT RD. BANGOR, ME 04404

⑦ James L. Markos, Jr.  
(signature)  
James L. Markos, Jr.  
(type or print name)

Street Box 747 Ellsworth, Me 04605  
(city, state and zip code)



⑧ Wendy W Beal  
Wendy W Beal  
PO Box 310  
Jonesport, ME 04649

⑨ Lynn M. Alley  
LYNN M. ALLEY  
P.O. Box 112  
Beals, ME 04611

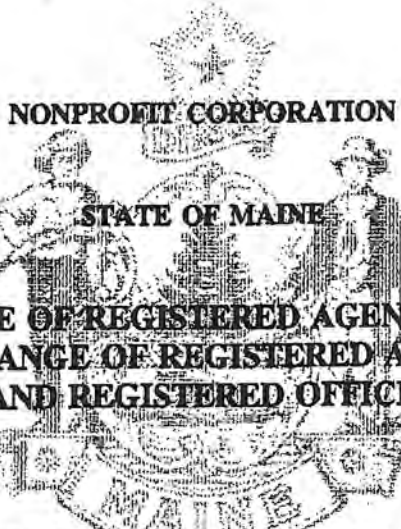
⑩ Samuel R. Chapman  
Samuel R. CHAPMAN  
50 Bremen Rd.  
Waldoboro, ME 04572

⑪ Dianne Tilton  
Dianne Tilton  
PO Box 679  
Machias, ME 04654

⑫ Judy B Kemp  
Judy B Kemp  
P.O. Box 152  
Machias, ME 04654

⑬ Hastings  
Michael M. Hastings  
Aquaculture Center  
Suite 203, 141 N. Main St.  
Brewer, ME 04412

⑭ Harold D. Winters  
Harold D. WINTERS  
DMR STA 81  
Augusta, ME 04333



**CHANGE OF REGISTERED AGENT ONLY  
or CHANGE OF REGISTERED AGENT  
AND REGISTERED OFFICE**

Beals Island Regional Shellfish Hatchery  
(Name of Corporation)

Filing Fee \$5.00

<p>File No. 19960225ND Pages 2          Fee Paid \$ 5.00          DCN 1970411600020 AGRO          ----- FILED -----          02/10/1997  <i>Mary Cooper</i>          _____          Deputy Secretary of State</p>	1997042/000/00/0001 000
<p>A True Copy When Attested By Signature  <i>Mary Cooper</i>          _____          Deputy Secretary of State</p>	

Pursuant to 13-B MRSA §305.1 or §1212.2, the undersigned corporation executes and delivers for filing the following change(s); authorized by a resolution duly adopted by the board of directors:

**FIRST:** The name and registered office of the registered agent appearing on the record in the Secretary of State's office:

Everett Johnson, Clerk  
(name)

HCR 71, Box 55, Machias, ME 04654  
(street, city, state and zip code)

**SECOND:** The name and registered office of the successor (new) registered agent who must be a Maine resident, whose office is identical with the registered office; or a corporation, domestic or foreign, profit or nonprofit, having an office identical with such registered office:

Jane E. Hinson, Clerk  
(name)

HCR 70, Box 28; Outer Elm Street; Machias, ME 04654  
(physical location - street (not P.O. Box), city, state and zip code)

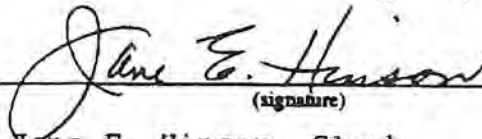
\_\_\_\_\_  
(mailing address if different from above)

**THIRD:** (To be completed by a foreign corporation.)

- A. Jurisdiction of incorporation \_\_\_\_\_
- B. Date of authorization to carry on activities in this State \_\_\_\_\_

DATED February 7, 1997

\*By

  
(signature)

Jane E. Hinson, Clerk

(type or print name and capacity)

\*By

(signature)

(type or print name and capacity)

---

\*This document **MUST** be signed by (1) the Clerk or Secretary OR (2) the President or a vice-president *and* the Secretary or an assistant secretary, or such other officer as the bylaws may designate as a 2nd certifying officer OR (3) if there are no such officers, then a majority of the Directors or such directors as may be designated by a majority of directors then in office OR (4) if there are no such directors, then the Members or such of them as may be designated by the members at a lawful meeting.

SUBMIT COMPLETED FORMS TO: CORPORATE EXAMINING SECTION, SECRETARY OF STATE,  
101 STATE HOUSE STATION, AUGUSTA, ME 04333-0101

**NONPROFIT CORPORATION**

**STATE OF MAINE**

**NONCOMMERCIAL REGISTERED AGENT**

**STATEMENT OF APPOINTMENT or CHANGE**

File No. 19960225ND Pages 2  
Fee Paid \$ 15  
DCN 2090692700020 ADDR  
-----FILED-----  
03/05/2009

  
Deputy Secretary of State

A True Copy When Attested By Signature

  
Deputy Secretary of State

DOWNEAST INSTITUTE FOR APPLIED  
(Name of Corporation as it appears on the records of the Secretary of State)  
MAKINE RESEARCH AND EDUCATION

Pursuant to 5 MRSA §§105, 108, & 109 the undersigned corporation executes and delivers the following statement of appointment and/or change of address by a noncommercial registered agent.

**FIRST:** ("X" all boxes that apply)

- A.  change of address
- B.  change of noncommercial registered agent and address
- C.  change of noncommercial registered agent
- D.  change in name of current noncommercial registered agent

**SECOND:** The name and address of the registered agent appearing on the record in the Secretary of State's office:

JANE E. HINSON

(name of current registered agent)

HC 70, BOX 25, MACHIAS, ME 04654

(physical street address, city, state and zip code)

(mailing address if different from above)

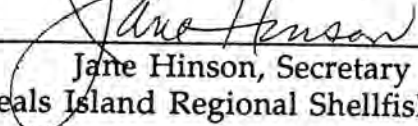
**THIRD:** (For foreign nonprofit corporations only)

Jurisdiction of Organization: \_\_\_\_\_

Date authorized to transact business in the State of Maine: \_\_\_\_\_

CERTIFICATE OF CORRECTION  
State of Maine  
1996 Annual Report  
Beals Island Regional Shellfish Hatchery  
DLN #1960168361713  
Charter #19960225ND

1. Under "Name of Corporation, Name of Registered Agent, Address on File," please: (a) strike "Harrington", and insert in lieu thereof "Beals"; (b) strike "04643", and insert in lieu thereof "04611".
2. Under "Foreign Corporations Only," please: strike "HCR 71, Box 55, Machias, ME 04654".

Signed:   
Jane Hinson, Secretary  
Beals Island Regional Shellfish Hatchery

Date: April 4, 1996

ALL  
ORIGINAL  
AMENDMENTS

STATE OF MAINE  
Office of the Secretary of State  
Bureau of Corporations, Elections and Commissions  
State House Station #101, Augusta, Maine 04333

DIVISION OF CORPORATIONS

02/11/1997

BEALS ISLAND REGIONAL SHELLFISH HATCHERY  
P.O. BOX 83

BEALS ME 04611

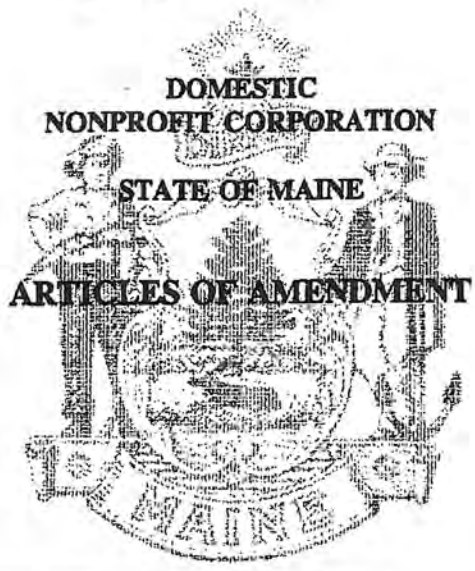
PROOF OF FILING  
WR DCN: 1970411600019

Enclosed please find copies of documents recently placed on file with our office. Each copy has been attested as a true copy of the original and serves as your evidence of filing. We recommend that you retain these permanently with your records.

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Charter #:      Legal Name:  
19960225ND      BEALS ISLAND REGIONAL SHELLFISH HATCHERY, INC.

(1)	CHANGE OF AGENT AND REGISTERED OFFICE DCN: 1970411600020	2 Page(s)
(2)	CHANGE IN PURPOSE DCN: 1970411600021	2 Page(s)
	Total	4 Page(s)
(3)	Change in name	
(4)	Change in members, directors	
(5)	Agent address change	



(Name of Corporation)

Minimum Fee \$5.00 (See §1401)

File No. 19960225ND Pages 2  
Fee Paid \$ 10.00  
DCN 1970411600021 PURP  
FILED  
02/10/1997

*Gary Cooper*  
Deputy Secretary of State

A True Copy When Attested By Signature

*Gary Cooper*  
Deputy Secretary of State

197942/0000/00/005 000

Pursuant to 13-B MRSA §§802 and 803, the undersigned corporation executes and delivers for filing the following Articles of Amendment:

**FIRST:** Describe NATURE OF CHANGE (i.e. change in name of corporation, purpose, number of directors, adding or deleting section or revision of section, etc.) as well as TEXT of amendment. Attach additional pages as needed.

*To Change Section Second To Include:*

The purposes of this corporation are exclusively  
charitable, educational and scientific purposes  
within the meaning of Section 501(c)(3) of the  
United States Internal Revenue Code of 1954 as the  
same may be amended, and in particular to develop and  
enhance Maine's soft-shell clam and other shellfish  
resources through applied scientific research, technology  
transfer, public education and aquaculture.

\* Statement included in original application  
to IRS for 501(c)(3). Application with Jess  
Herbert, Esq.

JSS

SECOND: ("X" one box only) The amendment was adopted on (date) January 24, 1997 as follows:

- By the members at a meeting at which a quorum was present and the amendment received at least a majority of the votes which members were entitled to cast.
- (If the Articles require more than a majority vote.) By the members at a meeting at which the amendment received at least the percentage of votes required by the Articles of Incorporation.
- By the written consent of all members entitled to vote with respect thereto.
- (If no members, or none entitled to vote thereon.) By majority vote of the board of directors.

THIRD: The address of the registered office of the corporation in the State of Maine is \_\_\_\_\_

HCR 70, Box 28, Outer Elm Street, Machias, ME 04654

(street, city, state and zip code)

DATED February 7, 1997

\*By Jane E. Hinson  
(signature)  
Jane E. Hinson, Clerk  
(type or print name and capacity)

\*By \_\_\_\_\_  
(signature)  
\_\_\_\_\_  
(type or print name and capacity)

<b>MUST BE COMPLETED FOR VOTE OF MEMBERS</b>
I certify that I have custody of the minutes showing the above action by the members.
<u>Jane E. Hinson</u> (signature of clerk, secretary or asst. secretary)

\*This document **MUST** be signed by (1) the Clerk or Secretary OR (2) the President or a vice-president and the Secretary or an assistant secretary, or such other officer as the bylaws may designate as a 2nd certifying officer OR (3) if there are no such officers, then a majority of the Directors or such directors as may be designated by a majority of directors then in office OR (4) if there are no such directors, then the Members or such of them as may be designated by the members at a lawful meeting.

SUBMIT COMPLETED FORMS TO: CORPORATE EXAMINING SECTION, SECRETARY OF STATE,  
101 STATE HOUSE STATION, AUGUSTA, ME 04333-0101  
TEL. (207) 287-4195



DOMESTIC  
NONPROFIT CORPORATION  
  
STATE OF MAINE

ARTICLES OF AMENDMENT

Beals Island Regional Shellfish Hatchery  
Inc. (Name of Corporation)

Minimum Fee \$5.00 (See §1401)

File No. 19960225ND Pages 2  
Fee Paid \$ 5  
DCN 2011801800067 LNME  
-----FILED-----  
06/26/2001

*Julie H. Flynn*  
Deputy Secretary of State

A True Copy When Attested By Signature

*Julie H. Flynn*  
Deputy Secretary of State

Pursuant to 13-B MRSA §§802 and 803, the undersigned corporation executes and delivers for filing the following Articles of Amendment:

FIRST: Describe NATURE OF CHANGE (i.e. change in name of corporation, purpose, number of directors, adding or deleting section or revision of section, etc.) as well as TEXT of amendment. Attach additional pages as needed.

Change in name of corporation from Beals Island Regional Shellfish Hatchery, Inc.  
to Downeast Institute for Applied Marine Research and Education, Inc.

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SECOND: ("X" one box only) The amendment was adopted on (date) JULY 21, 2000 as follows:

- By the members at a meeting at which a quorum was present and the amendment received at least a majority of the votes which members were entitled to cast.
- (If the Articles require more than a majority vote.) By the members at a meeting at which the amendment received at least the percentage of votes required by the Articles of Incorporation.
- By the written consent of all members entitled to vote with respect thereto.
- (If no members, or none entitled to vote thereon.) By majority vote of the board of directors.

THIRD: The address of the registered office of the corporation in the State of Maine is Perio Point,  
Beals Island, Maine 04611  
(street, city, state and zip code)

DATED JUNE 22, 2001

\*By Jane E. Hinson  
(signature)  
JANE E. HINSON, CHAIRMAN & CLERK  
(type or print name and capacity)

\*By BEALS ISLAND REGIONAL SHELLFISH HATCHERY, INC.  
(signature)  
 \_\_\_\_\_  
(type or print name and capacity)

**MUST BE COMPLETED FOR VOTE  
OF MEMBERS**

---

I certify that I have custody of the minutes showing the above action by the members.

  
  
 \_\_\_\_\_  
(signature of clerk, secretary or asst. secretary)

- \*This document **MUST** be signed by
- (1) the Clerk or Secretary OR
  - (2) the President or a vice-pres. together with the Secretary or an ass't. sec., or a 2nd certifying officer OR
  - (3) if no such officers, then a majority of the Directors OR
  - (4) if no such directors, then the Members.

SUBMIT COMPLETED FORMS TO: CORPORATE EXAMINING SECTION, SECRETARY OF STATE,  
 101 STATE HOUSE STATION, AUGUSTA, ME 04333-0101  
 TEL. (207) 624-7740

DOMESTIC  
NONPROFIT CORPORATION

STATE OF MAINE

ARTICLES OF AMENDMENT

File No. 19960225ND Pages 2  
Fee Paid \$ 10  
DCN 2081261400008 CHNG  
FILED  
04/22/2008

DOWNEAST INSTITUTE FOR  
APPLIED MARINE RESEARCH & EDUCATION  
(Name of Corporation)

*Julie R. Flynn*  
Deputy Secretary of State

A True Copy When Attested By Signature

*Julie R. Flynn*  
Deputy Secretary of State

Pursuant to 13-B MRSA §§802 and 803, the undersigned corporation executes and delivers the following Articles of Amendment.

FIRST: ("X" one box only.)  public benefit corporation  mutual benefit corporation

SECOND: Describe NATURE OF CHANGE (i.e. change in name of corporation, purpose, number of directors, adding or deleting section or revision of section, etc.) as well as TEXT of amendment. Attach additional pages as needed.

CHANGE IN NUMBER OF DIRECTORS  
FROM: NOT LESS THAN SIXTEEN AND NOT MORE THAN  
TWENTY  
TO: NOT LESS THAN EIGHT AND NOT MORE THAN  
SIXTEEN

**THIRD:** ("X" one box only.) The amendment was adopted on (date) MARCH 6, 2008 as follows:

- By the members at a meeting at which a quorum was present and the amendment received at least a majority of the votes which members were entitled to cast.
- (If the Articles require more than a majority vote.) By the members at a meeting at which the amendment received at least the percentage of votes required by the Articles of Incorporation.
- By the written consent of all members entitled to vote with respect thereto.
- (If no members, or none entitled to vote thereon.) By majority vote of the board of directors.

**FOURTH:** The address of the registered office of the corporation in the State of Maine is P.O. Box 83,  
BEALS, MAINE 04611  
(street, city, state and zip code)

**DATED** MARCH 28, 2008

\*By Jane E. Hinson  
(signature)  
JANE E. HINSON, CLERK  
(type or print name and capacity)

\*By \_\_\_\_\_  
(signature)  
\_\_\_\_\_  
(type or print name and capacity)

**MUST BE COMPLETED FOR VOTE  
OF MEMBERS**  
I certify that I have custody of the minutes showing  
the above action by the members.  
Jane E. Hinson, Clerk  
(signature of clerk, secretary or asst. secretary)

\*This document **MUST** be signed by any duly authorized officer. (13-B MRSA §104.1.B)

Please remit your payment made payable to the Maine Secretary of State.

**SUBMIT COMPLETED FORMS TO: CORPORATE EXAMINING SECTION, SECRETARY OF STATE,  
101 STATE HOUSE STATION, AUGUSTA, ME 04333-0101  
TEL. (207) 624-7752**

FORM NO. MNPCA-9 (2 of 2) Rev. 9/16/2005



**MAINE DEPARTMENT OF MARINE RESOURCES**

*Aquaculture Division, 21 State House Station, Augusta, ME 04333-0021 (207) 624-6567*

**CORPORATE APPLICANT FORM  
For Standard and Experimental Aquaculture Lease Applications**

Corporations or partnerships that apply for aquaculture leases in the State of Maine must complete this form. Corporations must submit information as requested under A. Corporate Applicant. Partnerships must submit information as requested under B. Partnership Applicant.

**A. Corporate Applicant**

**Note:** You must attach a copy of the Articles of Incorporation (Inc.) or Certificate of Formation (LLC) to your application.

1. Name of Corporation: Downeast Institute for Applied Marine Research & Education

2. Date of incorporation: Dec 26, 1995 State of incorporation: Maine

3. List the names, addresses, and titles of all officers:

Name	Address	Title
attached		

**Please use additional sheets if necessary and attach to the application.**

4. List the names and addresses of all directors/members:

Name	Address
attached	

**Please use additional sheets if necessary and attach to the application.**

5. Has the corporation, or any stockholder, director, or officer applied for an aquaculture lease for Maine lands in the past?  Yes  No

If you selected “yes,” please indicate who applied for the lease and the status of the application or lease. Ralph Smith EAST OP; Sam Chapman, SHE SQ2

6. List the names and addresses of all stockholders who own or control at least 5% of the outstanding stock and the percentage of outstanding stock currently owned or controlled by each stockholder.

Name	Address	Percentage of Owned Stock
NA Nonprofit corporation		

**Please use additional sheets if necessary and attach to the application.**

7. List the names and addresses of stockholders, directors, or officers owning an interest, either directly or beneficially, in any other Maine aquaculture leases, as well as the quantity of acreage from existing aquaculture leases attributed to each such person based on the percentage of owned stock listed in question 6. If none, write, “None.”

Name	Address	Lease Acronym	Acreage
Ralph Smith	48 Western Ave, Jonesport, ME	EAST OP	89.70
Sam Chapman	50 Bremen Rd, Waldoboro ME 04572	SHE SQ2	.57

**Please use additional sheets if necessary and attach to the application.**

8. Has the corporation or any officer, director, member, or shareholder listed in item 5 above ever been arrested, indicted, convicted of, or adjudicated to be responsible for any violation of any marine resources or environmental protection law, whether state or federal?

Yes  No

If you selected “yes”, please provide details.

**B. Partnership Applicant**

**Note:** You must attach a copy of either the Certificate of Limited Partnership or documentation of the formation of a General Partnership to your application.

1. Name of Partnership: \_\_\_\_\_

2. Date of formation: \_\_\_\_\_ State of partnership: \_\_\_\_\_

3. List the names, addresses, and ownership shares of all partners:

Name	Address	Ownership Shares

**Please use additional sheets if necessary and attach to the application.**

4. Has the partnership, or any partner applied for an aquaculture lease for Maine lands in the past?  Yes  No

If you selected “yes,” please indicate who applied for the lease and the status of the application or lease.

5. List the names and addresses of any partner owning an interest, either directly or beneficially, in any other Maine aquaculture leases, as well as the quantity of acreage from existing aquaculture leases attributed to each such person, based on their ownership shares from question 3.

Name	Address	Lease Acronym	Acreage


**Please use additional sheets if necessary and attach to the application.**

6. Has the partnership or any partner been arrested, indicted or convicted of or adjudicated to be responsible for any violation of marine resources or environmental protection law, whether State or Federal?

Yes  No

If you selected “yes”, please provide details.



## Downeast Institute 2023

### BOARD OF DIRECTORS

#### Board Chair

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Lynn Alley\*

Retired Science Teacher (JBHS)  
Jonesport

Christopher Bartlett

Maine Sea Grant/University of Maine Cooperative Extension  
Eastport, ME (Personnel Committee)

#### Vice Chair

---

Dr. Sherrie Sprangers

Science Professor at University of Maine at Machias  
Machias, ME (Finance Committee)

Sam Chapman\*

Retired Shellfish Specialist  
Waldoboro, ME

#### Clerk/Treasurer

---

Jane Hinson\*

Retired, Director of Special Programs, UMM  
Machias, ME (Finance Committee)

Dr. Gayle Kraus

Marine Ecology Professor, UMM  
Machias, ME

Jonathan Alley

Machias Savings Bank  
Addison, ME (Finance Committee)

Wendell Bradford

AC Inc., Shellfish Dealer  
Beals, ME

Dean Girdis

Open Energy Advisors  
Washington, DC

Jason Alley

Fisherman  
Jonesport, ME

Dr. Brian Beal\*

Science Professor at University of Maine at Machias  
Machiasport, ME (Personnel Committee)

Ralph Smith

Moosabec Mussels  
Jonesport, ME

Tom Haslett

TILT Investments  
Lincoln, MA

Peter Greene

Machias Savings Bank  
Addison, ME (Personnel Committee)

\*Founder

For Use By The Secretary of State
File No. ....
Fee Paid .....
C. B. ....
Date .....

NONPROFIT CORPORATION

STATE OF MAINE

ARTICLES OF INCORPORATION

(CHECK ONLY IF APPLICABLE)

This is a Domestic Condominium Corporation.

<i>Mary Cooper</i> Deputy Secretary of State
A True Copy When Attested By Signature
<i>Mary Cooper</i> Deputy Secretary of State

Pursuant to 13-B MRSA §403, the undersigned, acting as incorporator(s) of a corporation, adopt(s) the following Articles of Incorporation:

FIRST: The name of the corporation is Beals Island Regional Shellfish Hatchery, Inc.

SECOND: The corporation is organized for all purposes permitted under Title 13-B, MRSA, or, if not for all such purposes, then for the following purpose or purposes:

THIRD: The name of its Registered Agent and address of registered office (the registered agent must be a Maine resident, whose business office is identical with the registered office; or a corporation, domestic or foreign, profit or nonprofit, having an office identical with such registered office.)

Everett Johnson, Clerk HCR 71, Box 55  
Machias, ME 04654

B.I.R.S.H., PO Box 83 Harrington 04643 Beals Island 04641

(street address (not P.O. Box), city, state and zip code)  
PO Box 83, Harrington, ME 04643

(mailing address if different from above)

FOURTH: The number of directors (not less than 3) constituting the initial board of directors of the corporation, if they have been designated or elected, is Sixteen

The minimum number of directors (not less than 3) shall be Sixteen and the maximum number of directors shall be twenty.

FIFTH: Members:  There shall be no members.  
("X" one box only)  There shall be one or more classes of members, and the information required by §402 is as follows:

SIXTH:  (Check if this article is to apply)

No substantial part of the activities of the Corporation shall be the carrying on of propaganda, or otherwise attempting to influence legislation, and the Corporation shall not participate in or intervene in (including the publication or distribution of statements) any political campaign on behalf of any candidate for public office.

NEW

SEVENTH:  (Check if this article is to apply. Then fill in reference number of Section 501(c)( ? ) in first paragraph below.)

Upon the dissolution of the Corporation or the termination of its activities, the assets of the Corporation remaining after the payment of all its liabilities shall be distributed exclusively to one or more organizations organized and operated exclusively for such purposes as shall then qualify as an exempt organization or organizations under Section 501(c)( 3 ) of the Internal Revenue Code of 1986, as amended, and as a charitable, religious, eleemosynary, benevolent or educational corporation within the meaning of Title 13B, of the Maine Revised Statutes as amended.

No part of the net earnings of the Corporation shall inure to the benefit of any member, director, or officer of the Corporation, or any private individual (except that reasonable compensation may be paid for services rendered to or for the Corporation in carrying out one or more of its purposes), and no member, director, or officer of the Corporation, or any private individual, shall be entitled to share in the distribution of any of the corporate assets on dissolution of the Corporation.

EIGHTH: Other provisions of these articles, if any, including provisions for the regulation of the internal affairs of the corporation, and distribution of assets on dissolution or final liquidation:

"This corporation is not organized or operated for the benefit of private interest, such as the creator or his family, shareholders of the organization, other designated individuals, or persons controlled, directly or indirectly, by such private interests.

Notwithstanding any other provision of these articles, the corporation shall not carry on any other activities not permitted to be carried on (a) by a corporation exempt from Federal Income tax under section 501(c)(3) of the Internal Revenue Code of 1954, (or the corresponding provision of any future United States Internal Revenue Law) or (b) by a corporation, contributions to which are deductible under section 170(C)(2) of the Internal Revenue Code of 1954 (or corresponding provision of any future United States Internal Revenue Law."

Dated: October 27, 1995

INCORPORATORS

ADDRESSES

① Jane E. Henson  
(signature)  
JANE E. HENSON  
(type or print name)

Street HCR 70 BOX 28  
MACHIAS, ME 04654  
(city, state and zip code)

② Garrett P. Johnson Jr  
(signature)  
Garrett P. Johnson Jr  
(type or print name)

Street HCR 71 Box 55  
Machias, ME 04654  
(city, state and zip code)

③ Will Hopkins  
(signature)  
Will Hopkins  
(type or print name)

Street 4 FAVOR ST., EASTPORT, ME. 04631

④ Brian Beal  
(signature)  
Brian Beal  
(type or print name)

Street RR # 1; Box 511 Marshfield, Maine 04654  
(city, state and zip code)

⑤ Susan K. White  
(signature)  
Susan K. White  
(type or print name)

Street 97 Summer St.  
Hampden, Me. 04444  
(city, state and zip code)

⑥ Dana E. Wallace  
(signature)  
Dana E. Wallace  
(type or print name)

Street 1026 More Pt Rd. Brunswick, Me - 04011

⑦ James L. Markos, Jr.  
(signature)  
James L. Markos, Jr.  
(type or print name)

Street Box 747 Ellsworth, Me 04605  
(city, state and zip code)

⑧ Wendy W Beal  
Wendy W Beal  
PO Box 310  
Jonesport, ME 04649

⑨ Lynn M. Alley  
LYNN M. ALLEY  
P.O. Box 112  
Beals, ME 04611

⑩ Samuel R. Chapman  
Samuel R. CHAPMAN  
50 Bremen Rd.  
Waldoboro, ME 04572

⑪ Dianne Tilton  
Dianne Tilton  
PO Box 679  
Machias, ME 04654

⑫ Judy B Kemp  
Judy B Kemp  
P.O. Box 152  
Machias, ME 04654

⑬ ~~Hashige~~  
Michael M. Hashige  
Aquaculture Center  
Suite 203, 141 N. Main St.  
Brunswick, ME 04412

⑭ Harold C. Winters  
HAROLD C. WINTERS  
DMR STA 81  
Augusta, ME 04333

Filing Fee \$5.00

NONPROFIT CORPORATION

STATE OF MAINE

CHANGE OF REGISTERED AGENT ONLY  
or CHANGE OF REGISTERED AGENT  
AND REGISTERED OFFICE

Beals Island Regional Shellfish  
Hatchery (Name of Corporation)

File No. 19960225ND Pages 2  
Fee Paid \$ 5.00  
DCN 1970411600020 AGRO  
FILED  
02/10/1997

*Mary Cooper*

Deputy Secretary of State

A True Copy When Attested By Signature

*Mary Cooper*

Deputy Secretary of State

1997042/000/00/004 000

Pursuant to 13-B MRSA §305.1 or §1212.2, the undersigned corporation executes and delivers for filing the following change(s); authorized by a resolution duly adopted by the board of directors:

FIRST: The name and registered office of the registered agent appearing on the record in the Secretary of State's office:

Everett Johnson, Clerk

(name)

HCR 71, Box 55, Machias, ME 04654

(street, city, state and zip code)

SECOND: The name and registered office of the successor (new) registered agent who must be a Maine resident, whose office is identical with the registered office; or a corporation, domestic or foreign, profit or nonprofit, having an office identical with such registered office:

Jane E. Hinson, Clerk

(name)

HCR 70, Box 28; Outer Elm Street; Machias, ME 04654

(physical location - street (not P.O. Box), city, state and zip code)

(mailing address if different from above)

THIRD: (To be completed by a foreign corporation.)

A. Jurisdiction of incorporation \_\_\_\_\_

B. Date of authorization to carry on activities in this State \_\_\_\_\_

SSS

DATED February 7, 1997

\*By Jane E. Hinson  
(signature)  
Jane E. Hinson, Clerk  
(type or print name and capacity)

\*By \_\_\_\_\_  
(signature)  
\_\_\_\_\_  
(type or print name and capacity)

---

\*This document **MUST** be signed by (1) the Clerk or Secretary OR (2) the President or a vice-president *and* the Secretary or an assistant secretary, or such other officer as the bylaws may designate as a 2nd certifying officer OR (3) if there are no such officers, then a majority of the Directors or such directors as may be designated by a majority of directors then in office OR (4) if there are no such directors, then the Members or such of them as may be designated by the members at a lawful meeting.

SUBMIT COMPLETED FORMS TO: CORPORATE EXAMINING SECTION, SECRETARY OF STATE,  
101 STATE HOUSE STATION, AUGUSTA, ME 04333-0101

NONPROFIT CORPORATION

STATE OF MAINE

NONCOMMERCIAL REGISTERED AGENT

STATEMENT OF APPOINTMENT or CHANGE

File No. 19960225ND Pages 2  
Fee Paid \$ 15  
DCN 2090692700020 ADDR  
-----FILED-----  
03/05/2009

*Julie R. Dwyer*  
Deputy Secretary of State

A True Copy When Attested By Signature

*Julie R. Dwyer*  
Deputy Secretary of State

DOWNEAST INSTITUTE FOR APPLIED  
(Name of Corporation as it appears on the records of the Secretary of State)  
MARINE RESEARCH AND EDUCATION

Pursuant to 5 MRSA §§105, 108, & 109 the undersigned corporation executes and delivers the following statement of appointment and/or change of address by a noncommercial registered agent.

FIRST: ("X" all boxes that apply)

- A.  change of address
- B.  change of noncommercial registered agent and address
- C.  change of noncommercial registered agent
- D.  change in name of current noncommercial registered agent

SECOND: The name and address of the registered agent appearing on the record in the Secretary of State's office:

JANE E. HINSON

(name of current registered agent)

HC 70, BOX 28, MACHIAS, ME 04654

(physical street address, city, state and zip code)

(mailing address if different from above)

THIRD: (For foreign nonprofit corporations only)

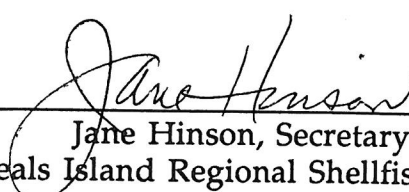
Jurisdiction of Organization: \_\_\_\_\_

Date authorized to transact business in the State of Maine: \_\_\_\_\_

CERTIFICATE OF CORRECTION  
State of Maine  
1996 Annual Report  
Beals Island Regional Shellfish Hatchery  
DLN #1960168361713  
Charter #19960225ND

1. Under "Name of Corporation, Name of Registered Agent, Address on File," please: (a) strike "Harrington", and insert in lieu thereof "Beals"; (b) strike "04643", and insert in lieu thereof "04611".
2. Under "Foreign Corporations Only," please: strike "HCR 71, Box 55, Machias, ME 04654".

Signed: \_\_\_\_\_

  
Jane Hinson, Secretary  
Beals Island Regional Shellfish Hatchery

Date: \_\_\_\_\_

April 4, 1996



ALL  
ORIGINAL  
AMENDMENTS

STATE OF MAINE  
Office of the Secretary of State  
Bureau of Corporations, Elections and Commissions  
State House Station #101, Augusta, Maine 04333

DIVISION OF CORPORATIONS

02/11/1997

BEALS ISLAND REGIONAL SHELLFISH HATCHERY  
P.O. BOX 83

BEALS ME 04611

PROOF OF FILING  
WR DCN: 1970411600019

Enclosed please find copies of documents recently placed on file with our office. Each copy has been attested as a true copy of the original and serves as your evidence of filing. We recommend that you retain these permanently with your records.

-----  
Charter #: Legal Name:

19960225ND BEALS ISLAND REGIONAL SHELLFISH HATCHERY, INC.

(1) CHANGE OF AGENT AND REGISTERED OFFICE  
DCN: 1970411600020

2 Page(s)

(2) CHANGE IN PURPOSE  
DCN: 1970411600021

2 Page(s)

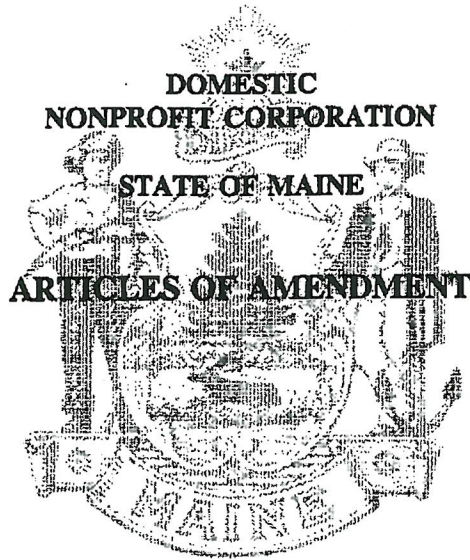
Total

4 Page(s)

(3) Change in name

(4) Change in number of directors

(5) Agent address change.



(Name of Corporation)

Minimum Fee \$5.00 (See §1401)

File No. 19960225ND Pages 2  
Fee Paid \$ 10.00  
DCH 1970411600021 PURP  
FILED  
02/10/1997

*Mary Cooper*

Deputy Secretary of State

A True Copy When Attested By Signature

*Mary Cooper*

Deputy Secretary of State

Pursuant to 13-B MRSA §§802 and 803, the undersigned corporation executes and delivers for filing the following Articles of Amendment:

FIRST: Describe **NATURE OF CHANGE** (i.e. change in name of corporation, purpose, number of directors, adding or deleting section or revision of section, etc.) as well as **TEXT** of amendment. Attach additional pages as needed.

*To Change Section Second To Include:*

The purposes of this corporation are exclusively

charitable, educational and scientific purposes

within the meaning of Section 501(c)(3) of the

United States Internal Revenue Code of 1954 as the

same may be amended, and in particular to develop and

enhance Maine's soft-shell clam and other shellfish

resources through applied scientific research, technology

transfer, public education and aquaculture.

\*

Statement included in original application  
to IRS for 501(c)(3). Application with Jess  
Herbert, Esq.

JSS

SECOND: ("X" one box only) The amendment was adopted on (date) January 24, 1997 as follows:

- By the members at a meeting at which a quorum was present and the amendment received at least a majority of the votes which members were entitled to cast.
- (If the Articles require more than a majority vote.) By the members at a meeting at which the amendment received at least the percentage of votes required by the Articles of Incorporation.
- By the written consent of all members entitled to vote with respect thereto.
- (If no members, or none entitled to vote thereon.) By majority vote of the board of directors.

THIRD: The address of the registered office of the corporation in the State of Maine is \_\_\_\_\_

HCR 70, Box 28, Outer Elm Street, Machias, ME 04654

(street, city, state and zip code)

DATED February 7, 1997

\*By Jane E. Hinson  
(signature)

Jane E. Hinson, Clerk

(type or print name and capacity)

\*By \_\_\_\_\_  
(signature)

(type or print name and capacity)

<b>MUST BE COMPLETED FOR VOTE OF MEMBERS</b>
I certify that I have custody of the minutes showing the above action by the members.
<u>Jane E. Hinson</u> (signature of clerk, secretary or asst. secretary)

\*This document **MUST** be signed by (1) the Clerk or Secretary OR (2) the President or a vice-president and the Secretary or an assistant secretary, or such other officer as the bylaws may designate as a 2nd certifying officer OR (3) if there are no such officers, then a majority of the Directors or such directors as may be designated by a majority of directors then in office OR (4) if there are no such directors, then the Members or such of them as may be designated by the members at a lawful meeting.

SUBMIT COMPLETED FORMS TO: CORPORATE EXAMINING SECTION, SECRETARY OF STATE,  
101 STATE HOUSE STATION, AUGUSTA, ME 04333-0101  
TEL. (207) 287-4195

DOMESTIC  
NONPROFIT CORPORATION

STATE OF MAINE

ARTICLES OF AMENDMENT

Minimum Fee \$5.00 (See §1401)

File No. 19960225ND Pages 2  
Fee Paid \$ 5  
DCN 2011801800067 LNME  
-----FILED-----  
06/26/2001

  
Deputy Secretary of State

A True Copy When Attested By Signature

  
Deputy Secretary of State

Beals Island Regional Shellfish Hatchery  
Inc. (Name of Corporation)

Pursuant to 13-B MRSA §§802 and 803, the undersigned corporation executes and delivers for filing the following Articles of Amendment:

**FIRST:** Describe NATURE OF CHANGE (i.e. change in name of corporation, purpose, number of directors, adding or deleting section or revision of section, etc.) as well as TEXT of amendment. Attach additional pages as needed.

Change in name of corporation from Beals Island Regional Shellfish Hatchery, Inc.  
to Downeast Institute for Applied Marine Research and Education, Inc.

SECOND: ("X" one box only) The amendment was adopted on (date) JULY 21, 2000 as follows:

- By the members at a meeting at which a quorum was present and the amendment received at least a majority of the votes which members were entitled to cast.
- (If the Articles require more than a majority vote.) By the members at a meeting at which the amendment received at least the percentage of votes required by the Articles of Incorporation.
- By the written consent of all members entitled to vote with respect thereto.
- (If no members, or none entitled to vote thereon.) By majority vote of the board of directors.

THIRD: The address of the registered office of the corporation in the State of Maine is Perio Point,  
Beals Island, Maine 04611  
(street, city, state and zip code)

DATED JUNE 22, 2001

\*By Jane E. Hinson  
(signature)

JANE E. HINSON, CHAIRMAN & CLERK  
(type or print name and capacity)

\*By BEALS ISLAND REGIONAL SHELLFISH HATCHERY, INC.  
(signature)

\_\_\_\_\_  
(type or print name and capacity)

**MUST BE COMPLETED FOR VOTE  
OF MEMBERS**

---

I certify that I have custody of the minutes showing the above action by the members.

---

(signature of clerk, secretary or asst. secretary)

- \*This document **MUST** be signed by
- (1) the **Clerk or Secretary** OR
  - (2) the **President** or a vice-pres. together with the **Secretary** or an ass't. sec., or a 2nd certifying officer OR
  - (3) if no such officers, then a majority of the **Directors** OR
  - (4) if no such directors, then the **Members**.

SUBMIT COMPLETED FORMS TO: CORPORATE EXAMINING SECTION, SECRETARY OF STATE,  
101 STATE HOUSE STATION, AUGUSTA, ME 04333-0101  
TEL. (207) 624-7740

DOMESTIC  
NONPROFIT CORPORATION

STATE OF MAINE

ARTICLES OF AMENDMENT

File No. 19960225ND Pages 2  
Fee Paid \$ 10  
DCN 2081261400008 CHNG  
---FILED---  
04/22/2008

DOWNEAST INSTITUTE FOR  
APPLIED MARINE RESEARCH & EDUCATION  
(Name of Corporation)

*Julie R. Flynn*  
Deputy Secretary of State

A True Copy When Attested By Signature

*Julie R. Flynn*  
Deputy Secretary of State

Pursuant to 13-B MRSA §§802 and 803, the undersigned corporation executes and delivers the following Articles of Amendment.

FIRST: ("X" one box only.)  public benefit corporation  mutual benefit corporation

SECOND: Describe NATURE OF CHANGE (i.e. change in name of corporation, purpose, number of directors, adding or deleting section or revision of section, etc.) as well as TEXT of amendment. Attach additional pages as needed.

CHANGE IN NUMBER OF DIRECTORS  
FROM: NOT LESS THAN SIXTEEN AND NOT MORE THAN  
TWENTY  
TO: NOT LESS THAN EIGHT AND NOT MORE THAN  
SIXTEEN

**THIRD:** ("X" one box only.) The amendment was adopted on (date) MARCH 6, 2008 as follows:

- By the members at a meeting at which a quorum was present and the amendment received at least a majority of the votes which members were entitled to cast.
- (If the Articles require more than a majority vote.) By the members at a meeting at which the amendment received at least the percentage of votes required by the Articles of Incorporation.
- By the written consent of all members entitled to vote with respect thereto.
- (If no members, or none entitled to vote thereon.) By majority vote of the board of directors.

**FOURTH:** The address of the registered office of the corporation in the State of Maine is P.O. BOX 83,  
BEALS, MAINE 04611  
(street, city, state and zip code)

**DATED** MARCH 28, 2008

\*By Jane E. Hinson  
(signature)  
JANE E. HINSON, CLERK  
(type or print name and capacity)

\*By \_\_\_\_\_  
(signature)  
\_\_\_\_\_  
(type or print name and capacity)

**MUST BE COMPLETED FOR VOTE  
OF MEMBERS**  
I certify that I have custody of the minutes showing  
the above action by the members.  
Jane E. Hinson, Clerk  
(signature of clerk, secretary or asst. secretary)

\*This document **MUST** be signed by any duly authorized officer. (13-B MRS A §104.1.B)

Please remit your payment made payable to the Maine Secretary of State.

**SUBMIT COMPLETED FORMS TO: CORPORATE EXAMINING SECTION, SECRETARY OF STATE,  
101 STATE HOUSE STATION, AUGUSTA, ME 04333-0101  
TEL. (207) 624-7752**

FORM NO. MNPCA-9 (2 of 2) Rev. 9/16/2005

May 14, 2024

To Whom it May Concern:

Please be advised that a duly noticed public meeting of the Beals Board of Selectmen was held on May 14, 2024. At this meeting, the undersigned members of the board, representing a majority of the three members, provided their consent for the standard aquaculture lease proposed for the site known as "Elmer's Pound" at the Downeast Institute.

Signed: *Lorena Faulkingham* Lorena Faulkingham

*Daniel F. Davis* DANIEL F. DAVIS

*Glenda Beal* Glenda Beal





February 23<sup>rd</sup>, 2024

Down East Institute for Applied Marine  
Research and Education, Inc.  
PO Box 83  
Beals, ME 04611-0083

To whom it may concern,

This letter is to inform that Down East Institute for Applied Marine Research and Education, Inc. has a good standing business relationship with Machias Savings Bank.

If there is any way that I can be of further assistance please do not hesitate to call me directly at 255-9226.

Regards,

A handwritten signature in black ink, appearing to read "Sean R. Daye", is written over a vertical red line.

Sean R. Daye  
Vice President  
Business Banking

SRD/bdd

# Brian Fairfield Beal

University of Maine at Machias  
9 O'Brien Avenue  
Machias, Maine 04654

Tel. 207-255-1314

FAX 207-255-1390

e-mail [bbeal@maine.edu](mailto:bbeal@maine.edu)

**Date and Place of Birth:** 19 November 1957; Machias, Maine

**Formal Education:** 1979: B.S. in Biology; University of Maine at Machias  
1983: M.S. in Marine Sciences; University of North Carolina, Chapel Hill  
1994: Ph.D. in Marine Bio-Resources; University of Maine, Orono

**Pertinent Experience:**

1984-1985: Marine Project Assistant; Univ. Maine Cooperative Extension Service, Machias, Maine  
1985-1986: Environmental Education Coordinator; University of Maine at Machias  
1986-1994: Environmental Resources Coordinator; University of Maine at Machias  
1989-1997: Assistant Professor of Marine Ecology; University of Maine at Machias  
1998-2002: Associate Professor of Marine Ecology; University of Maine at Machias  
1990-present: Graduate Faculty Member, University of Maine (School of Marine Science)  
1996-present: Cooperating Faculty member for the School for Marine Science at the Univ. of Maine  
2002-present: Professor of Marine Ecology; University of Maine at Machias  
2011-present: Director, Marine Science Field Station, University of Maine at Machias

**Fellowships/Scholarships/Other Awards:**

Switzer Foundation Environmental Fellow (1992-1993)  
Teacher of the Year, University of Maine at Machias (2000)  
Fulbright Scholarship (2000-2001), National University of Ireland, Galway (lecture/research)  
Distinguished Alumnus, University of Maine at Machias (2001)  
Trustee Professor, University of Maine at Machias (AY 2004-2005)  
Bourne-Chew Award, National Shellfisheries Association (2015)  
Maine Magazine's "50 Mainers to Admire and Inspire" (2019)

**Courses taught:** Introduction to Environmental Studies; Marine Biology; Marine Ecology; Population and Community Ecology; Algebra I; Algebra II; Pre-Calculus; Applied Statistics; Biostatistics; Introduction to the Marine Environment; Oceanography; Introduction to Mariculture; Introduction to the Local Marine Fauna and Flora of Downeast Maine

**Research Interests:** Shellfish ecology; population biology; resource management; mariculture

**Professional Organizations:** National Shellfisheries Association

**Local Organizations:** Maine Aquaculture Innovation Center (Chairman of Board of Directors); Downeast Institute for Applied Marine Research & Education (Director. of Research); Cobscook Bay Resource Center (Member, Board of Directors)

**Member:** Maine Department of Environmental Protection, Clean-up and Response Review Board; Scientific and Technical Subcommittee, Maine Climate Council.

**Selected Publications:**

Beal, B.F. 2002. Adding value to live, commercial size soft-shell clams (*Mya arenaria* L.) in Maine, USA: Results from repeated, small-scale, field impoundment trials. *Aquaculture* 210:119-135.

Beal, B.F. 2005. Soft-shell clam, *Mya arenaria*, mariculture in Maine, USA: opportunities and challenges. *Bulletin of the Aquaculture Association of Canada. Special Publication No. 9*:41-44.

Beal, B.F. 2006. Relative importance of predation and intraspecific competition in regulating growth and survival of juveniles of the soft-shell clam, *Mya arenaria* L., at several spatial scales. *J. Exp. Mar. Biol. Ecol.* 336:1-17.

- Beal, B.F. 2006. Biotic and abiotic factors influencing growth and survival of wild and cultured individuals of the soft-shell clam (*Mya arenaria* L.) in eastern Maine. *J. Shellfish Res.* 25:461-474.
- Beal, B.F., Bayer, R.C., Kraus, M.G., Chapman, S.R. 1999. A unique shell marker of juvenile, hatchery-reared individuals of the soft-shell clam, *Mya arenaria* L. *Fish. Bull.* 97:380-386.
- Beal, B.F., Coffin, C.R., Randall, S.F., Goodenow, C.A., Jr., Pepperman, K.E., Ellis B.W. 2020. Interactive effects of shell hash and predator exclusion of 0-year class recruits of two infaunal intertidal bivalve species in Maine, USA. *J. Exp. Mar. Biol. Ecol.* 530-53. <https://doi.org/10.1016/j.jembe.2020.151441>.
- Beal, B.F., Coffin, C.R., Randall, S.F., Goodenow, C.A., Jr., Pepperman, K.E., Ellis, B.W., Jourdet, C.B., Protopopescu, G.C. 2018. Spatial variability in recruitment of an infaunal bivalve: experimental effects of predator exclusion on the softshell clam (*Mya arenaria* L.) along three tidal estuaries in southern Maine, USA. *J. Shellfish Res.* 37:1-27.
- Beal, B.F., Kraus, M.G. 2002. Interactive effects of initial size, stocking density, and type of predator deterrent netting on survival and growth of cultured juveniles of the soft-shell clam, *Mya arenaria* L. in eastern Maine. *Aquaculture* 208:81-111.
- Beal, B.F., Lithgow, C., Shaw, D., Renshaw, S., Ouellette, D. 1995. Overwintering hatchery-reared individuals of the soft-shell clam, *Mya arenaria* L.: a field test of site, clam size, and intraspecific density. *Aquaculture* 130:145-158.
- Beal, B.F., Randall, S.F., Pepperman, K.E. 2020. Comparative field trials to examine the efficacy of a traditional management tool – brushing – to enhance local densities of 0-y class recruits in the soft-shell clam *Mya arenaria* L. fishery in Maine, USA. *J. Shellfish Res.* 39(3):1-15.
- Beal, B.F., Mercer, J.P., O’Conghaile, A. 2002. Field-based nurseries for hatchery-reared postlarvae of the European lobster, *Homarus gammarus* (L.): results of a 10-month, manipulative field experiment on the Irish west coast and implications for stock enhancement efforts. *Aquaculture* 210:137-157.
- Beal, B.F., Meredith, S.D., Jourdet, C.B., Pepperman, K.E. 2016. Diet of an underappreciated benthic intertidal fish, *Cryptacanthodes maculatus* (Cryptacanthodidae), in eastern Maine, USA. *AIMS Environ. Sci.* 3:488-508. doi: 10.3934/environsci.2016.3.488.
- Beal, B.F., Nault, D-M, Annis, H., Thayer, P., Leighton, H., Ellis, B. 2016. Comparative, large-scale field trials along the Maine coast to assess management options to enhance populations of the commercially-important soft-shell clam, *Mya arenaria* L. *J. Shellfish Res.* 35(4):1-17.
- Beal, B.F., Parker, M.R., Vencile, K.W. 2001. Seasonal effects of intraspecific density and predator exclusion along a shore-level gradient on survival and growth of juveniles of the soft-shell clam, *Mya arenaria* L., in Maine, USA. *J. Exp. Mar. Biol. Ecol.* 264:133-169.
- Tan, E.B.P., Beal, B.F. 2015. Interactions between invasive European green crab, *Carcinus maenas* (L.), and juveniles of the soft-shell clam, *Mya arenaria* L., in eastern Maine, USA. *J. Exp. Mar. Biol. Ecol.* 462:62-73.
- Vadas, R.L., Beal, B.F., Dowling, T. & Fegley, J. 1999. Experimental field tests of natural algal diets on gonad index and roe quality in *Strongylocentrotus droebachiensis*: A case for rapid summer production. *Aquaculture* 182:115-135.
- Vadas, R.L., Beal, B.F., Dudgeon, S.R., Wright, W.A. 2015. Spatial and temporal variability of spawning in the green sea urchin *Strongylocentrotus droebachiensis* along the coast of Maine. *J. Shellfish Res.* 34:1097-1128.

# JEFF ROBINSON

## Objective

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To obtain a position that will enable me to use my organizational skills, past work and management experience.

## Experience

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2016-Present Downeast Institute for Applied Marine Science and Education

### Facilities Manager

- Integrally involved with the daily operation of a shellfish hatchery, marine science laboratory, public education center, and on-campus housing.
- Responsible for upkeep and maintenance of all systems, facilities and grounds on the Downeast Institute's campus.
- Ensure a safe working environment for staff and visitors.
- Oversee contractors.
- Operate equipment. i.e. boats, small machinery.
- Fabrication of custom materials for marine research projects.
- Fabrication of various systems used in on-shore aquaculture

2005-2016 Cooke Aquaculture US Inc. Eastport, ME

### **IMTA Mussel Project** 2011-2016

- Integrate rope grown Blue Mussel cultivation with Atlantic Salmon farms in Maine.
- Work closely with people within the company and within Sea Grant/University of Maine to establish new/different methods that will aide in making mussel cultivation a viable and economic industry.

### **Marine Site Manager** 2005-2011

- Efficiently & economically operate/manage a marine farm for Atlantic Salmon cultivation.

- Train & manage employees on the farm & support personnel to facilitate daily tasks/projects safely and efficiently.
- Maintain integrity of farms containment systems and equipment.
- Operate vessels and large equipment.
- Experience with computers and Excel, Microsoft Word etc.
- Drug/pesticide applicator.
- First Aide/CPR training.
- Confined Space training.
- Oil spill training.
- Fabrication - metal, wood, fiberglass.

1993-2005	Heritage Salmon	Eastport, Me
	<b>Marine Site Manager</b>	1999-2005
	<b>Marine Site Assistant Manager</b>	1995-1999
	<b>Marine Technician</b>	1993-1995
1992-1993	Hall Security	Brewer, Me
	<b>Security Guard</b>	
1992- 1993	Mahar Bros Construction	Pembroke, Me
	<b>Equipment Operator/Laborer</b>	
1990-2005	Part Time Carpenter and Carpenter Assistant	
1998-2004	Supervising experience with Balsam Christmas Tree farm work harvesting and retail.	

#### Education

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1991-1992	University of Maine	Orono, Me
1987-1991	Washington Academy	East Machias, Me

#### Interests

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Family activities, most outdoor activities. Woodworking, carpentry

Kyle Pepperman  
67 Birch Ridge Rd  
Marshfield, Me 04654  
Mobile: (570) 337-8873  
Kyle.pepperman@downeastinstitute.org

Education:

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**University of Maine at Machias**

B.S. in Science September 2004-May 2009

Major: Marine Biology; Minor: Chemistry and Biology

Employment History

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**Downeast Institute for Applied Marine Research and Education, Beals, Maine**

Associate Director of Technology Transfer *March 2022-present*

Production and Hatchery Manager *December 2020-March 2022*

Shellfish Production and Research Assistant *October 2010 – December 2020*

Research Intern *2006 – 2010*

Research duties, hatchery operations management, and educational outreach to grade schools, summer camps, college students and community members

**University of Maine at Machias, Machias, Maine**

Field assistant *September 2008- September 2009*

Assisted Dr. Brian Beal by collecting of benthic core samples from soft bottom intertidal sites for Maine Oil Spill Advisory Committee, identified and measured infaunal invertebrates collected from mud samples

Laboratory Assistant *September 2006-December 2006*

Assisted Dr. Ruth Carmichael by preparing samples of hard-shell clam shell for acidification, extracting proteins from clam shell by acidification and filtration, preparing reagents used in acidification process, and preparing materials needed for Oceanography lab taught by Dr. Carmichael

Experience Summary

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Fourteen years' experience assisting with and participating in marine research projects, both in the laboratory and in the field, working with Dr. Brian Beal and Dr. Ruth Carmichael.

Research Experience:

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- Raising marine species for the purpose of supporting scientific study and applied research: soft-shell

scallops (*Placopecten magellanicus*), red footed arctic surf clams (*Mactromeris polynyma*), European oysters (*Ostrea edulis*) juveniles and larvae, juvenile Atlantic lobsters (*Homarus americanus*), Atlantic razor clam (*Ensis leei*) and phytoplankton, used as forage for the shellfish,

- Participated in multiple scientific studies
  - o 2017 NOAA Sea Grant funded research on commercialization of hatchery-reared blue mussel (*Mytilus edulis*) seed for use by mussel farmers in Maine
  - o 2015 NOAA Saltonstall Kennedy funded research expanding opportunities for blue and “gold” mussel (*Mytilus edulis*) farming in New England from hatchery to grow-out
  - o 2013 NSF funded applied research on the culture of arctic surf clams (*Mactromeris polynyma*) and blue mussels (*Mytilus edulis*) in eastern Maine
  - o 2009/2010 USDA-SBIR funded research evaluating subtidal and intertidal grow-out methods for cultured hard clams (*Mercenaria mercenaria*) in eastern Maine
  - o 2009 NOAA-NMFS funded research to examine methods to enhance local (costal) stocks using wild and/or cultured juveniles of deep sea scallops (*Placopecten magellanicus*)
  - o 2006 Maine Technology Institute funded research examining the hatchery, nursery and overwintering phases of the hard clam (*Mercenaria mercenaria*)
  - o 2006 Maine Department of Marine Resources funded research studying regional variations in the growth of American lobsters (*Homarus americanus*)

- Participated in published research

**Brian F. Beal, Chad R. Coffin, Sara F. Randall, Clint A. Goodenow Jr., Kyle E.**

**Pepperman, Bennett W. Ellis, Cody B. Jourdet and George C. Protopopescu**

Spatial Variability in Recruitment of an Infaunal Bivalve: Experimental Effects of Predator Exclusion on the Softshell Clam (*Mya arenaria* L.) along Three Tidal Estuaries in Southern Maine, USA. *Journal of Shellfish Research*, 37, 1-27.

**Protopopescu, G.C and Beal, B.F**

2015. Settlement response to various rope substrates in blue mussels (*Mytilus edulis* Linnaeus) in a hatchery setting. *Journal of Shellfish Research* 34, 383-391

**Beal, B.F. and G.C. Protopopescu**

2012. Ocean-based nurseries for cultured lobster (*Homarus americanus* Milne Edwards) postlarvae: field experiments off the coast of eastern Maine to examine effects of flow and container size on growth and survival. *Journal of Shellfish Research* 31, 177-193.

## **Breanna Salter**

Machias, ME 04654

bsalter@downeastinstitute.org / (860) 861-3012

### **EDUCATION**

#### **University of Maine**

- Bachelor of Science  
Ecology and Environmental Sciences
- Concentration: Marine Ecosystems Ecology

Orono, ME  
Sept 2015-May 2019

### **EXPERIENCE**

#### **Downeast Institute**

##### *Production and Research Hatchery Manager*

- Managing microalgae stock and mass cultures
- Participating in project planning and following research work plans
- Developing and implementing plans to rear larval and juvenile bivalves and other marine invertebrates
- Supervising research hatchery assistants

Jan 2023-Present

##### *Production Assistant*

- Performing sanitation and preparation of shellfish production equipment and systems
- Training new employees and interns
- Spawning and rearing shellfish and assisting with field-based experiments
- Maintaining microalgae stock and mass cultures

Oct 2019-Jan 2023

#### **University of Maine**

##### *Student Researcher*

- Tracked mussel heart rate in response to temperature change
- Collected, organized, and analyzed data

Orono, ME  
Oct 2018-Sept 2019

##### *Maine Learning Assistant-Biology of Marine Organisms*

- Facilitated in-class discussions
- Co-lead review sessions
- Assisted professor and TAs in preparation of lectures

Jan 2019-May 2019

#### **Dodson Boatyard**

##### *Launch Operator*

- Operated launch boat to transport customers from their moored boats
- Managed and organized mooring field

Stonington, CT  
May 2017-Oct 2019

##### *Dock Hand*

- Directed and secured vessels to dock
- Operated fuel pumps
- Performed general maintenance of facility (cleaning and organizing)

May 2016-Aug 2016



## **Mystic Aquarium**

*Volunteer Exhibit Host*

Mystic, CT  
July 2019-Oct 2019

- Provided guests with information about exhibits
- Enforced exhibit rules to ensure guest and animal safety

## **SKILLS**

- Proficient in Microsoft Word, Excel, Chart5, and ArcGIS
- Microscopy

## **Tessa G. Houston**

Jonesport, ME • (207) 939-3064 • thouston2017@gmail.com

### **Education**

**COLBY COLLEGE**, Waterville, ME

**GPA 3.69**

Bachelor of Arts in Environmental Science, 2021

Bachelor of Arts in History, 2021

*Applicable Courses:* Aquatic Ecology, Marine Conservation & Policy, Earth Systems Chemistry

**DIS COPENHAGEN**, Copenhagen, Denmark

Studied Polar Biology and Biology of Marine Mammals, 2019

### **Research Experience**

**Research Assistant**, *Downeast Institute*, Beals, ME

**November 2022-Present**

- Coordinate data collection for research projects in the hatchery and field
- Communicate with the Director of Research and hatchery staff to conduct research
- Research projects include developing best practices for spawning Atlantic scallops, producing a population of Eastern oysters that thrive in colder temperatures, and exploring the reproductive cycle of soft-shell clams

**AmeriCorps Environmental Steward**, Maine Conservation Corps

**January-November 2022**

*Rachel Carson National Wildlife Refuge*, Wells, ME

- Performed surveys for evidence of New England cottontails across Southern Maine using ArcGIS Field Maps
- Trained interns to survey and manage piping plover and least tern habitat
- Coordinated aquaculture surveys both independently and in a leadership role
- Supervised coworkers and volunteers in invasive plant management
- Developed a trail guide and activity book for visiting fourth and fifth graders
- Directed a Boy Scout in her project surveying macroinvertebrates in streams within Rachel Carson NWR in collaboration with Maine Audubon's Stream Explorers project
- Organized National Public Lands Day volunteer planting events
- \*Interned for Rachel Carson National Wildlife Refuge Summer 2020 and assisted in invasive plant management and piping plover, least tern, and saltmarsh sparrow management

**Intertidal Ecology Technician**, *Schoodic Institute*, Winter Harbor, ME

**June-November 2021**

- Conducted research on soft-sediment biodiversity and the relationship between marine worms and clam abundance and presented research findings in a poster presentation ([link](#)) and blog post ([link](#))
- Assisted in research on seaweed biomass mapping
- Co-led volunteer groups in field and labwork
- Collaborated on a mark and recapture project to track the movement of Jonah crabs
- Supervised University of Maine students in multi-day soft-sediment research projects
- Conducted water sampling projects including SPATT and ocean acidification sampling

**Research Intern**, *Schoodic Institute*, Remote

**January 2021**

- Conducted research with the guidance of Hannah Webber on how the frequency of foggy days has changed through time in the Acadia Region

- Authored a blog post of research results for Schoodic Institute titled “A brief investigation into Acadia’s foggy history” ([link](#))

**Researcher**, *Environmental Science Capstone*, Waterville, ME **Fall 2020**

- Conducted a research project in collaboration with classmates on the distribution of Atlantic sturgeon in the Kennebec River, Maine and compiled research into a full scientific paper
- Collaborated with Dr. Peter Countway of Bigelow Laboratory to confirm, using environmental DNA techniques, the effectiveness of a newly developed Atlantic sturgeon primer in detecting this species in both laboratory and environmental samples

**Research Intern**, *Mook Sea Farm*, Walpole, ME **Summer 2019**

- Conducted research with Dr. Meredith White on the effect of coastal acidification on calcification rates and gene expression of juvenile eastern oysters
- Maintained Mook Sea Farm’s seawater monitoring system
- Assisted in building an experimental upwelling system
- Monitored oyster health and survival rate throughout the experiment
- Presented findings at the SEA Fellows Symposium

**Research Assistant**, *Assistant Professor Loren McClenachan*, Waterville, ME **2018 - 2021**

Conducted research on a variety of projects integrating marine science and history, including:

- Assisted in research for scientific papers on the views of Maine lobster industry members vs members of the local scientific community on lobster population trends
- Researched the population trends and methods for determining these trends of Pacific and Atlantic gray whales
- Collaborated with LookBermuda in the creation of an online database consisting of deepsea fish data from the 1920s and 1930s
- Discovered references to the pre-1769 landscape and ecology of San Francisco using online newspaper and photo databases to assist The San Francisco Estuary Institute
- Compared historical photos, from historical society archives, of locations on the Maine Coast to current photographs and analyzed the change in rockweed abundance

**Technical Skills**

- Proficient experience with Excel
- Proficient experience with R and PAST
- Experienced with ArcMap, ArcPro, ArcGIS Online, and Survey123 Connect
- Wilderness First Aid (DOE: April 2024), CPR and AED (DOE: April 2024) certified

**Work & Volunteer Experience**

**Mentor**, *Colby Cares about Kids*, Waterville, ME **Fall 2017-Spring 2021**

- Mentored a local elementary school student
- Committed to weekly interactions and special events with mentee

**Sailing Instructor and Volunteer**, *Southport Yacht Club*, Southport, ME **2010-2018**

- Taught sailing, navigation, seamanship, and racing skills to children ages 7 to 13
- Received the Summer 2018 Instructor of the Year award

**RIPARIAN LANDOWNER LIST**  
**\*THIS LIST MUST BE CERTIFIED\***

On this list, please show the current landowners' names and mailing addresses as listed in the municipal tax records for all riparian shorefront parcels within 1,000 feet of the proposed lease site along with the map and lot number for each parcel. **It is the applicant's responsibility to assemble the information for the Town Clerk to certify.** The Town Clerk *only* certifies that the information is correct according to the Town's records. Once you have completed the form, ask the Town Clerk to complete the certification section below. If the parcels are within more than one municipality, provide a separate, certified riparian list for each municipality.

**TOWN OF: Beals**

MAP #	LOT #	Landowner name(s) and address(es)
4	5	James and Susan Gallagher P.O. Box 226, Lyndon VT 05849
4	4, 1-2 & 1-1	Downeast Institute P.O. Box 83, Beals ME 04611
4	12-1	Root Estates Inc P.O. Box 456, Oakland, ME 04693
4	2	Joan Beal P.O. Box 38, Beals, ME 04611
4	3	Lisa Dow P.O. Box 42, Beals, ME 04611
5	16	Mario Argentino P.O. Box 101, Hamburg, NJ 07419
5	9-3 & 15	Downeast Institute P.O. Box 83, Beals ME 04611
4	7	Chabot Family Realty Trust 2 Eugley Park East, North Reading, MA 01864
5	2	The Nature Conservancy Fort Andross, 14 Maine St. Suite 401 Brunswick, ME 04011

**Please use additional sheets if necessary and attach hereto.**

**CERTIFICATION**

I, TERRY L. BEAL, Town Clerk for the Town of Beals certify that the names and addresses of the property owners listed above, as well as the map and lot numbers, are those listed in the records of this municipality and are current as of this date.

SIGNED: Terry L. Beal DATE: 2/28/2024

