

## STANDARD LEASE APPLICATION: NON-DISCHARGE

### 1. APPLICANT CONTACT INFORMATION

Applicant	Maine Island Aquaculture, LLC		
Contact Person	Hannah Twombly		
Address	P.O. Box 346		
City	North Haven		
State, Zip	ME, 04853		
County	Knox		
Telephone	(207) 272-3209		
Email	<a href="mailto:hannahetwombly@gmail.com">hannahetwombly@gmail.com</a>		
Type of Application	Draft Application [submitted before scoping session session]		<input checked="" type="checkbox"/> Final Application [submitted after scoping session]
Dates	Pre-Application Meeting: 5/28/19	Scoping Session: 8/2/20	Draft Application Submitted: 9/26/2019

**Note:** If applicant is a corporation or a partnership, the “Corporate Applicant Information Document” available at: <http://www.maine.gov/dmr/aquaculture/forms/standard.html> must also be completed.

**Please find Corporate Application Form attached on pages 41-44. The Certificate of Formation can be found immediately following, on pages 45-46.**

### 2. PROPOSED LEASE SITE INFORMATION

Location of Proposed Lease Site	
Town	North Haven
Waterbody	Marsh Cove
General Description (e.g. south of B Island)	Southwest of Hog Island
Lease Information	
Total acreage requested (100-acre maximum)	15 acres
Lease term requested (20-year maximum)	20 years

Type of culture (check all that apply)	<input 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No

**Note:** If you selected yes, you need to complete the steps outlined in the section titled: “19. Landowner/Municipal Permission Requirements”.

### 3. WATER QUALITY

*Directions:* Water Quality Information can be found here: <http://www.maine.gov/dmr/shellfish-sanitation-management/closures/pollution.html>

Pollution Area (e.g. “19-A”):	30-I
Pollution Area Section (e.g. “B.2”. or “none”):	None
Water Quality Classification (e.g approved, restricted, etc.):	Approved

**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 you 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, juveniles, and/or smolts	Maximum number (or biomass) of organisms you anticipate on the site at any given time
1. Atlantic Sea Scallops ( <i>Placopecten magelanicus</i> )	Seed collected by various individuals in Penobscot Bay with spat collector licenses 1. Connor O’Neil P.O. Box 346 North Haven, ME 04853 2. Marsden Brewer 88 N. Stonington Rd. Stonington, ME 04681 3. Bobby Beckman Vinalhaven, ME 04863	300,000 individuals
2. Sugar Kelp ( <i>Saccharina latissima</i> )	1. Atlantic Sea Farms 89 Industrial Park Rd. Saco, ME 04072 2. Springtide Seaweed 14 Factory Rd Gouldsboro, ME 04607	200,000 lbs

3. Dulse ( <i>Palmaria palmata</i> )	1. Springtide Seaweed 14 Factory Rd Gouldsboro, ME 04607	200,000 lbs
4. Alaria ( <i>Alaria esculenta</i> )	1. Springtide Seaweed 14 Factory Rd Gouldsboro, ME 04607	200,000 lbs
5. Skinny Kelp ( <i>Saccharina angustissima</i> )	1. Atlantic Sea Farms 89 Industrial Park Rd. Saco, ME 04072	200,000 lbs

**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 you plans at the following email: [DMRPublicHealthDiv@maine.gov](mailto:DMRPublicHealthDiv@maine.gov)

**\*We have contacted Kohl Kanwit in regards to the requirements to sell whole or roe-on scallops, and will work with DMR BPH to ensure compliance (e.g. a Memorandum of Understanding) before possessing, transporting, or selling scallops in these formats.**

**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)

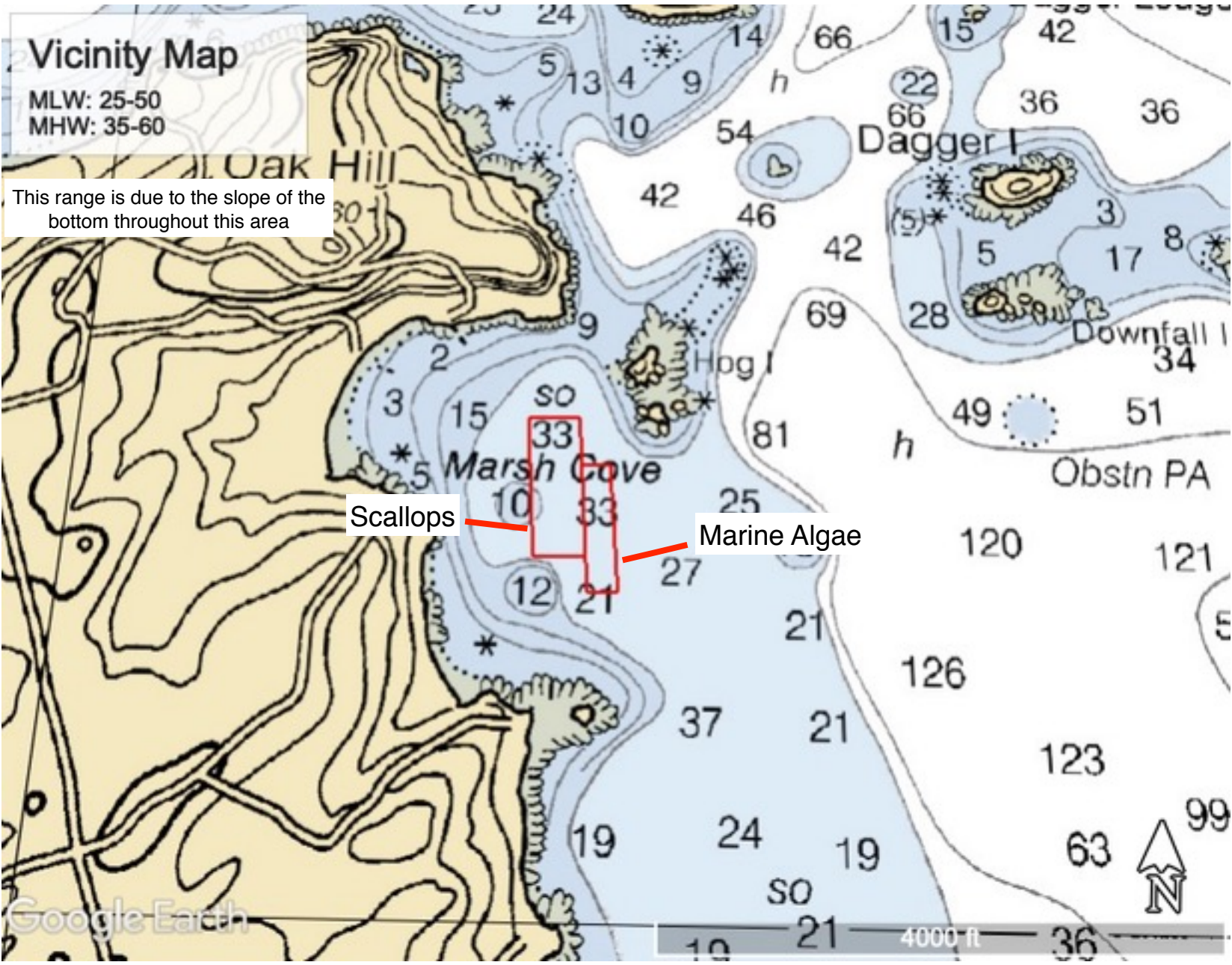
**5. VICINITY MAP**

**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



## 6. BOUNDARY DRAWING

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

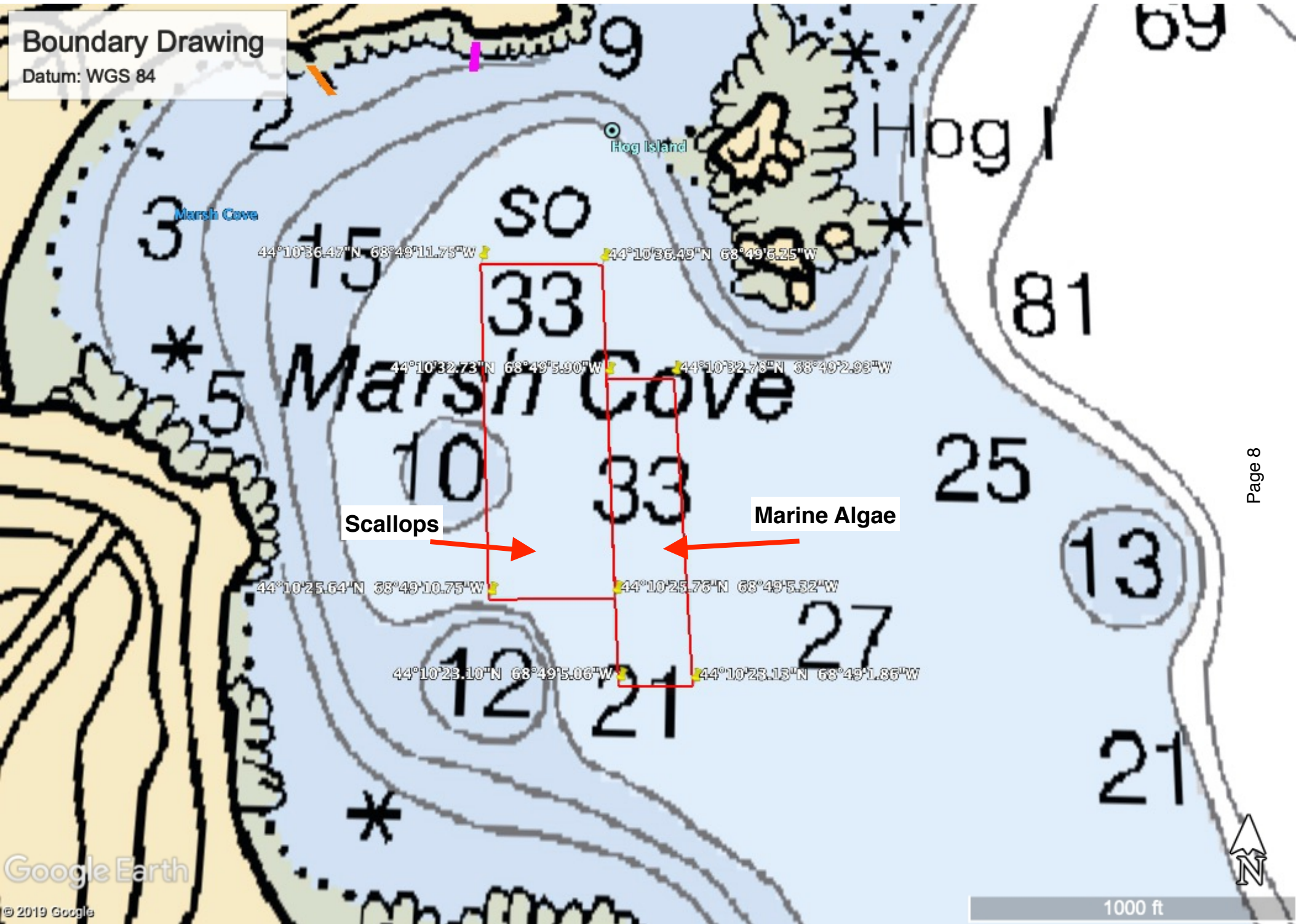
**Directions:** Depict the boundaries of the proposed lease site. Provide a drawing with all corners, directions, and distances labeled. Provide coordinates for each corner as follows:

- Coordinate Description

Provide geographic coordinates for each corner of the lease site in latitude and longitude as accurately as possible (e.g., to the nearest second or fraction of a second). 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.

# Boundary Drawing

Datum: WGS 84



## 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.).

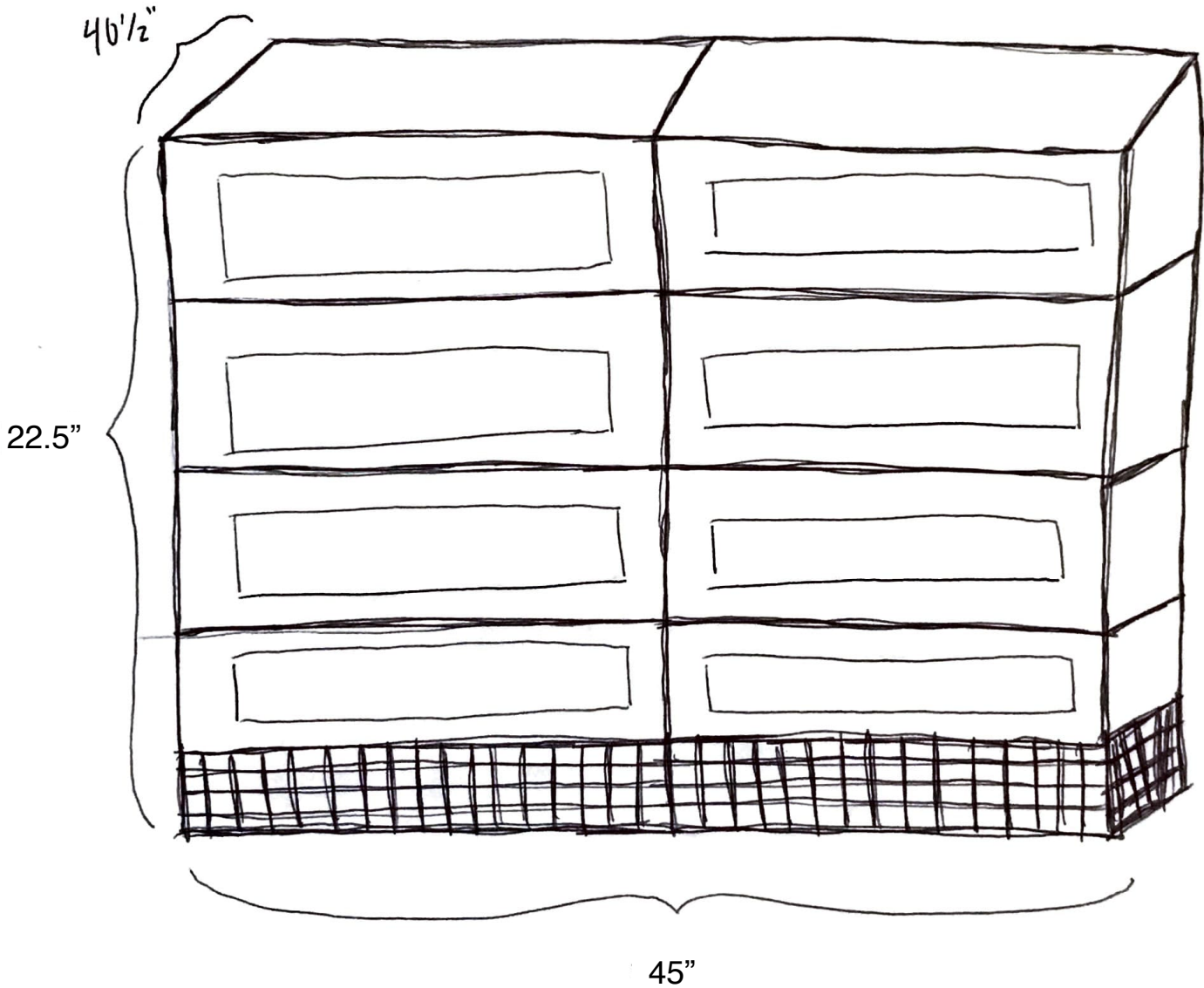
1. Gear Drawing: Please include the following for each gear type that will hold organisms to be cultured (e.g. Polar circles, marine algae longlines, oyster cages) and label as “Gear Drawing”. This view must show the following:
  - Length, width, and height of each gear type.

# Gear Drawing: 7A1-1

8-bag Oyster Condo  
w/ squared bags

## Legend

-  = vinyl coated black wire that forms the cage
-  = squared mesh oyster bags that go into open slots in condo \*see drawing 7A1-3 for detailed drawing of bags
-  = bottom section of cage. More vinyl coated black wire that lifts cage off of mud






# Gear Drawing: 7A1-2

Lantern Net  
(10 floors)

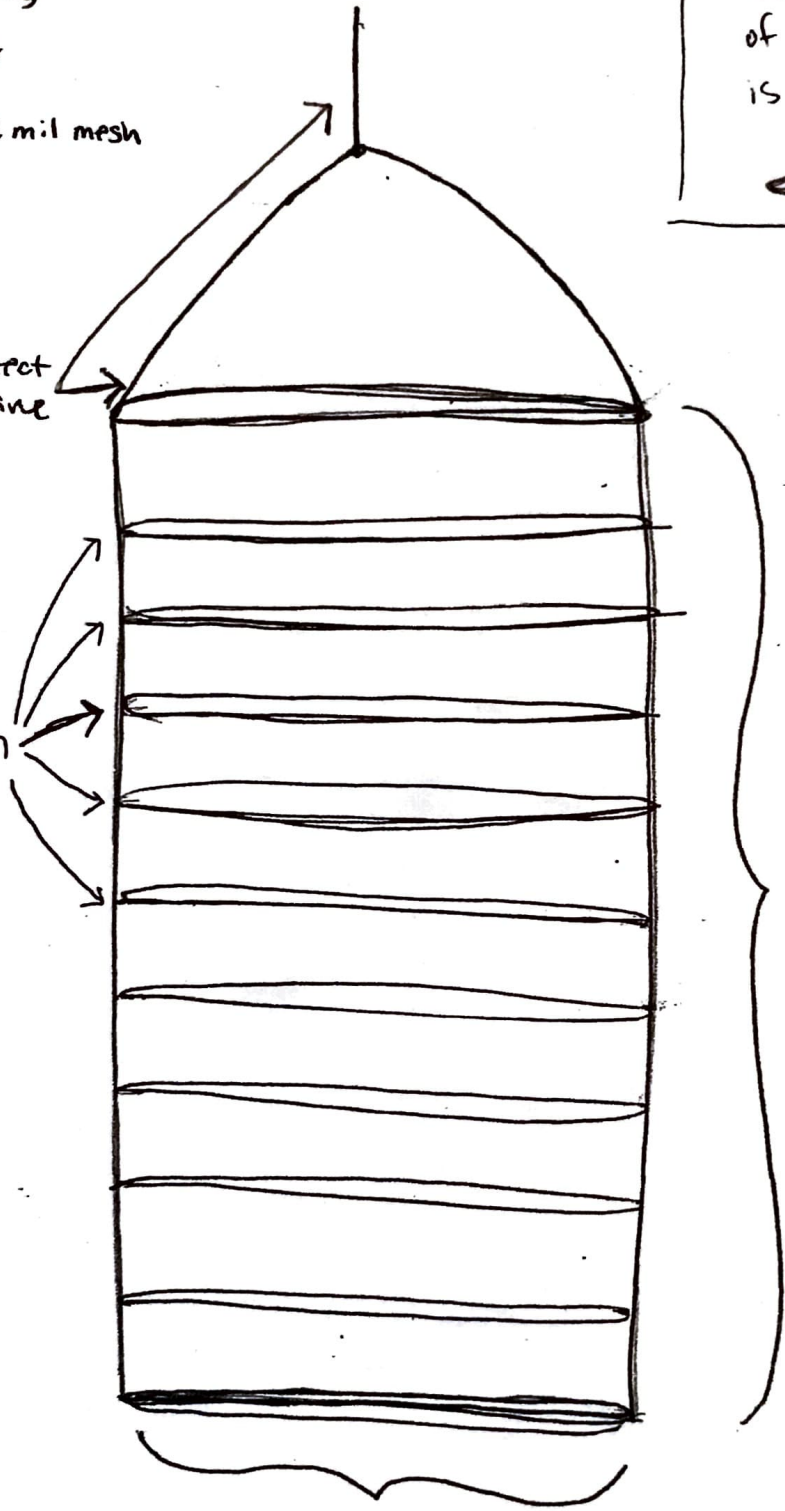
6 mil, 9 mil, and 12 mil mesh

The cylindrical net is made of mesh, and each floor is also made of mesh

 = floor separation

rope to connect gear to long line

Indicates separation of each floor



6'ft

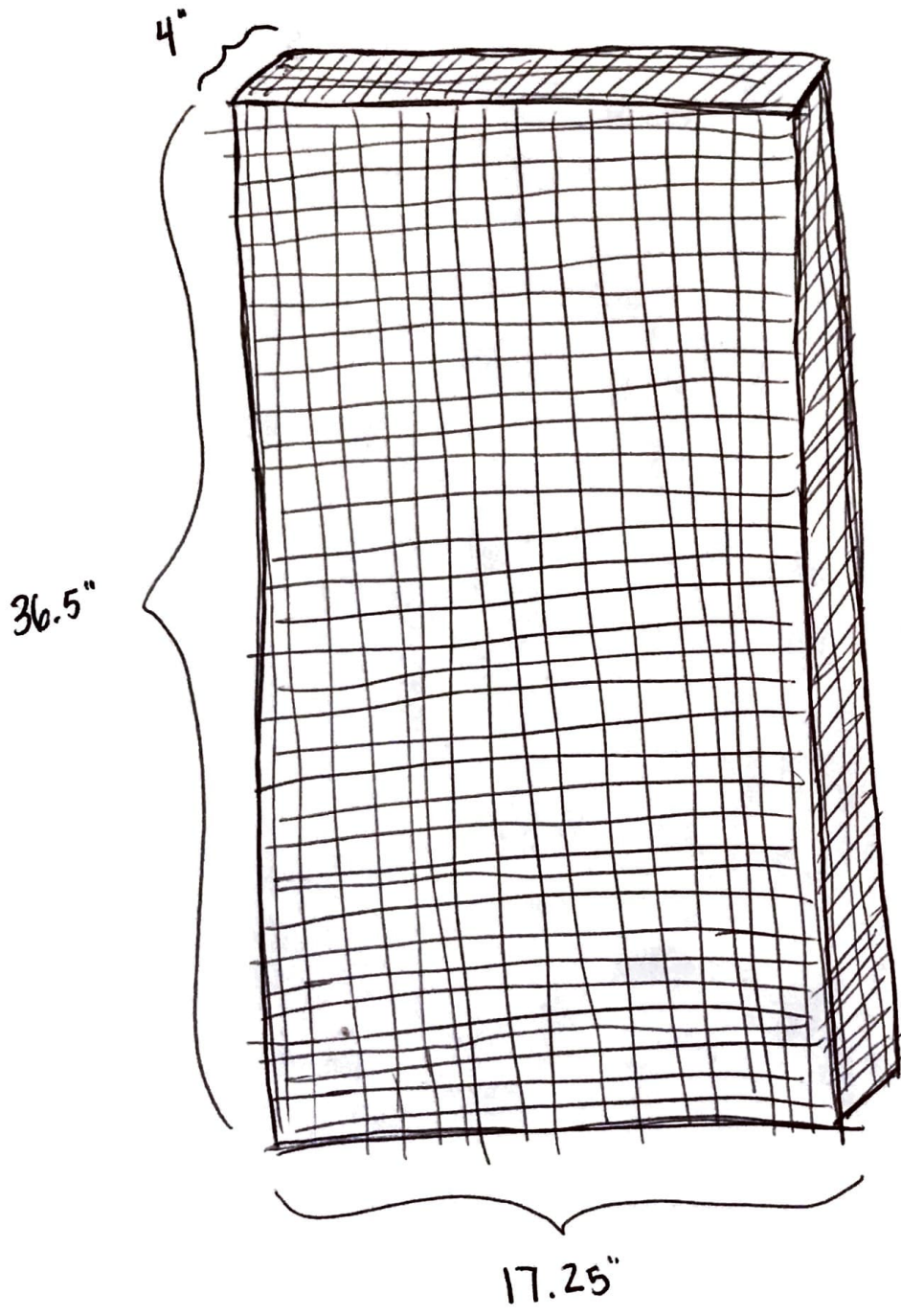
18" x 18"

Gen Drawing: 7A1-3

Squared Oyster Bags

Hard mesh

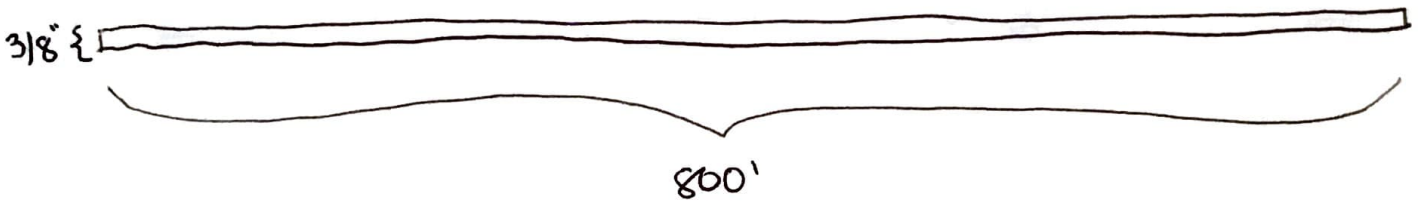
- Grid lines indicate hard mesh
- Oyster bag slides into oyster condo to contain scallops that will be grown on bottom



Gear Drawing: 7A1-4

Fishing line

- Fishing line that will be seeded with kelp
- Long lines will be 800' long



## Gear Drawing- 7A1-5

### Spat bag

Bags are made of a fine exterior mesh (32"x15") with a larger mesh netting placed inside where the scallops settle

\*Spat bags will be deployed off site in the fall using a spat collecting license and are brought onto the site in the winter to then be sorted in the spring



2. Gear Table: List and describe each individual gear type that you will use in the table below. Only include gear that will hold organisms to be cultured (e.g. Polar circles, marine algae longline, oyster cages).

<b>Specific Gear Type</b> (e.g. soft mesh bag)	<b>Dimensions</b> (e.g. 16"x20"x2")	<b>Time of year gear will be deployed</b> (e.g. Spring, Winter, etc.)	<b>Maximum amount of this gear type that will be deployed on the site</b> (i.e. 200 cages, 100 lantern nets, etc.)	<b>Species that will be grown using this gear type</b>
8-bag Oyster Condo	45"x40.5"x22.5"	year round	100	scallops
Lantern nets	6'x18"x18"	year round	1,000	scallops
Hard mesh Oyster bags	17.25"x 36.5"x 4"	year round	800	scallops
Fishing Line	3/8"- 1/2" x 800'	Nov-June	16,000ft	marine algae
Spat bags	32"x15"	~Dec-June	200	scallops

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

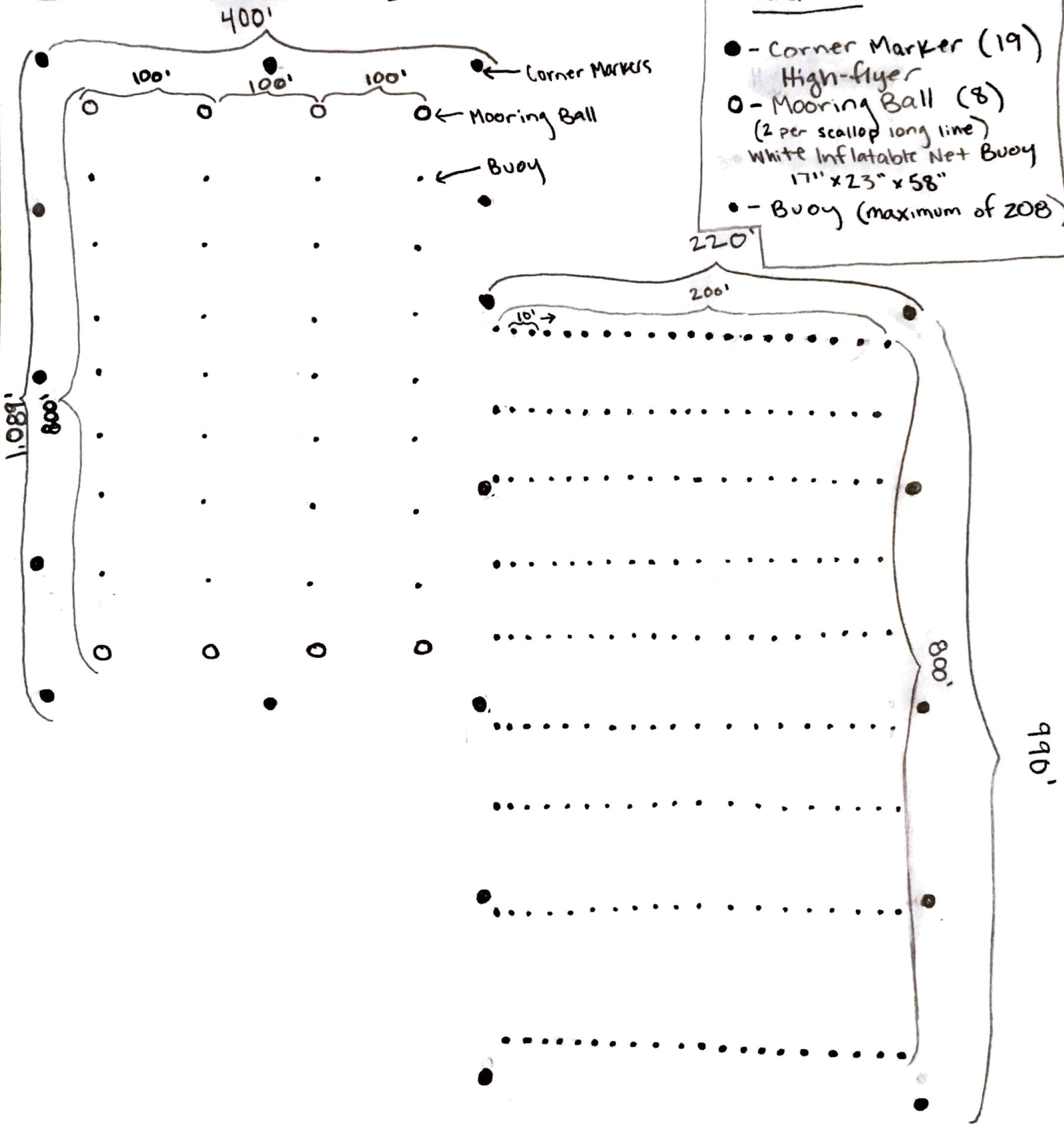
*Directions:* Include drawings of your maximum gear layout. Include units referenced (i.e. 10in, 10ft, etc.).

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.

# Overhead View: 7B1

## LEGEND:

- - Corner Marker (19)
- High-flyer
- - Mooring Ball (8)  
(2 per scallop long line)
- White Inflatable Net Buoy  
17" x 23" x 58"
- - Buoy (maximum of 208)



2. Cross-Section View. Please include the following and label as “Cross-Section View”:

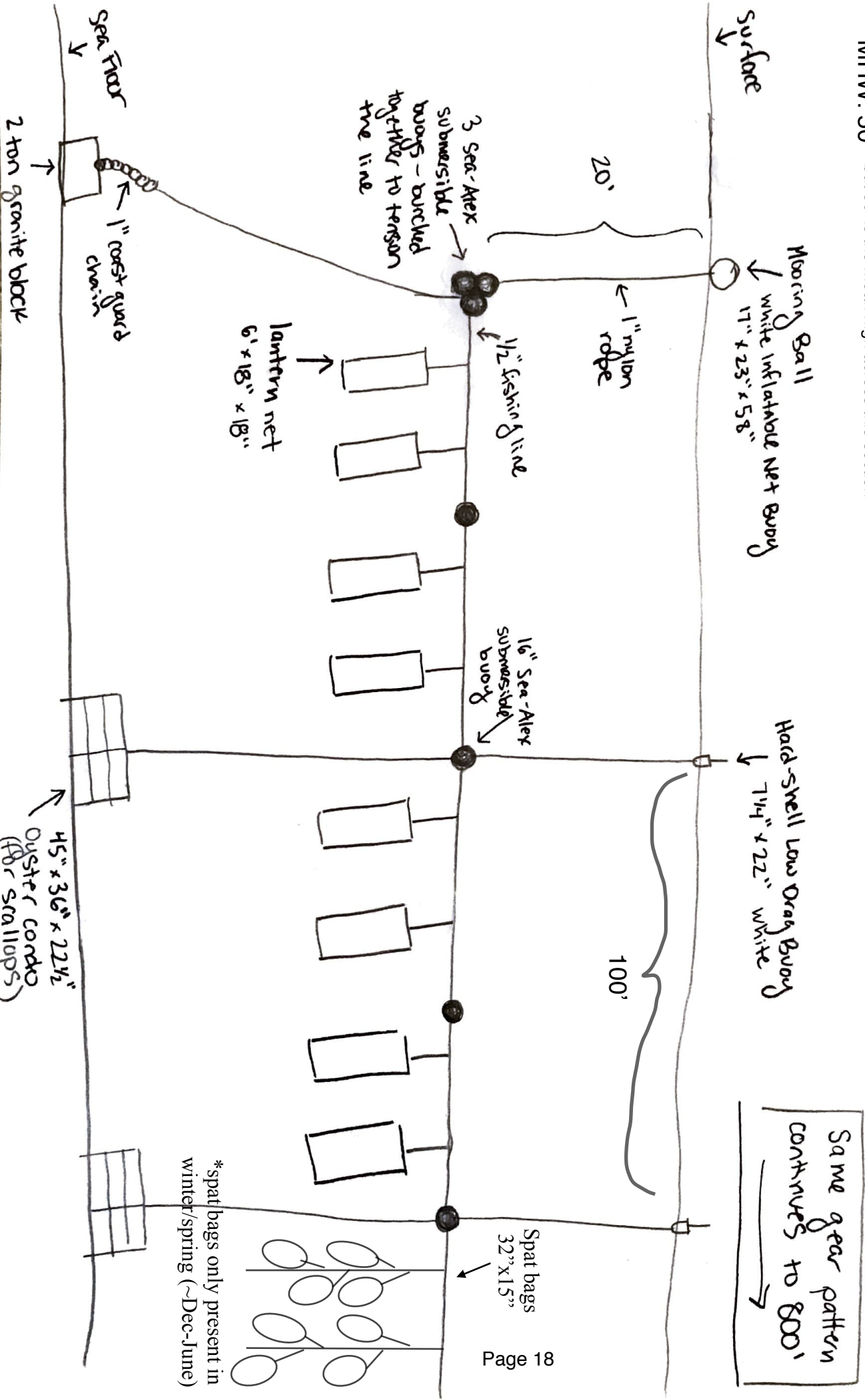
- The sea bottom.
- Profile of gear in cross-section as it will be deployed.
- Label gear with dimensions and materials.
- Show mooring gear with mooring type, scope, hardware, and line type and size.
- Depth of gear in relation to the water’s surface at mean low water and mean high water (if applicable).

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

# Cross-Section View: TBL-1

## Scallop Long Line (year-round)

MLW: 40  
 MHW: 50  
 \*The deepest area shows depths up to 60', but 50' is the mean high across this section



Same gear pattern continues to 800'

\*spat bags only present in winter/spring (~Dec-June)

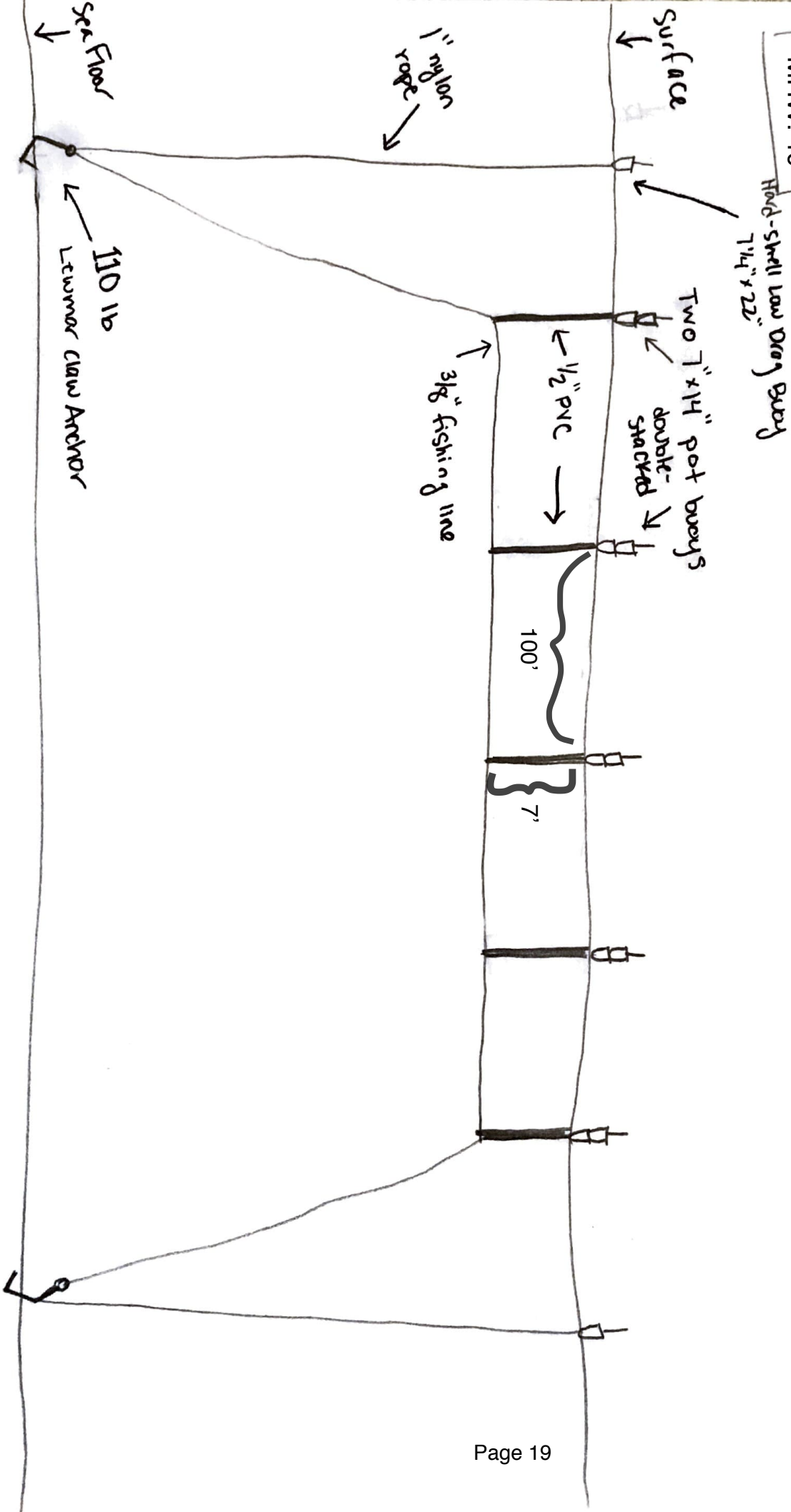


Cross-Section View: TBL-2A

Marine Algae Long Line  
(In-season: Dec-June)

MLW: 30  
MHW: 40

Length of longline is 800'



Cross - Section View: 7B2 - 2B

Marine Algae Long Line

(offseason: mid June - Nov)

all gear removed

surface



Sea Floor



**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 will utilize a 30'x14' barge that we will take to and from the site while working, pushing it from a nearby mooring with our boat. Connor built the barge in 2019, and we have attached a schematic and photo of the structure, which includes a 96" x 48" x 84" shed. We currently utilize this barge while working on our LPA's. We currently moor the barge in Marsh Cove.

2. Describe the storage and use of oil, gasoline or other hazardous materials on this facility. If petroleum products are to be stored on site, provide a spill prevention plan.

The boat we currently use is powered by a gasoline outboard engine. In the future we may upgrade to a diesel powered boat. The shed on the barge houses a gas-powered generator (Honda EU3000iS). We hope to install solar panels in 2021, which will reduce the need for the generator. We have a small hot tank powered by propane. No petroleum products will be stored on site. We plan to bring any extra gas or oil out with us on our boat, which will be moored at Brown's Boatyard.

**D. Gear Color**

Provide the color of the gear and structures proposed to be used at the lease site.

The gear that will be visible from the surface includes mooring balls, pot buoys, and the required boundary markers (high-flyers). In the past on our LPA's we have used black Sea-Alex buoys (18" diameter) and orange trawl balls (8" diameter) as our pot buoys to delineate where the long line is under the surface. For this application, we are proposing to use white mooring balls, white pot buoys, and white high-flyers. We are flexible about the color and size of the buoys we use, as we want to have the least possible visual impact while also being visible enough for easy navigation.

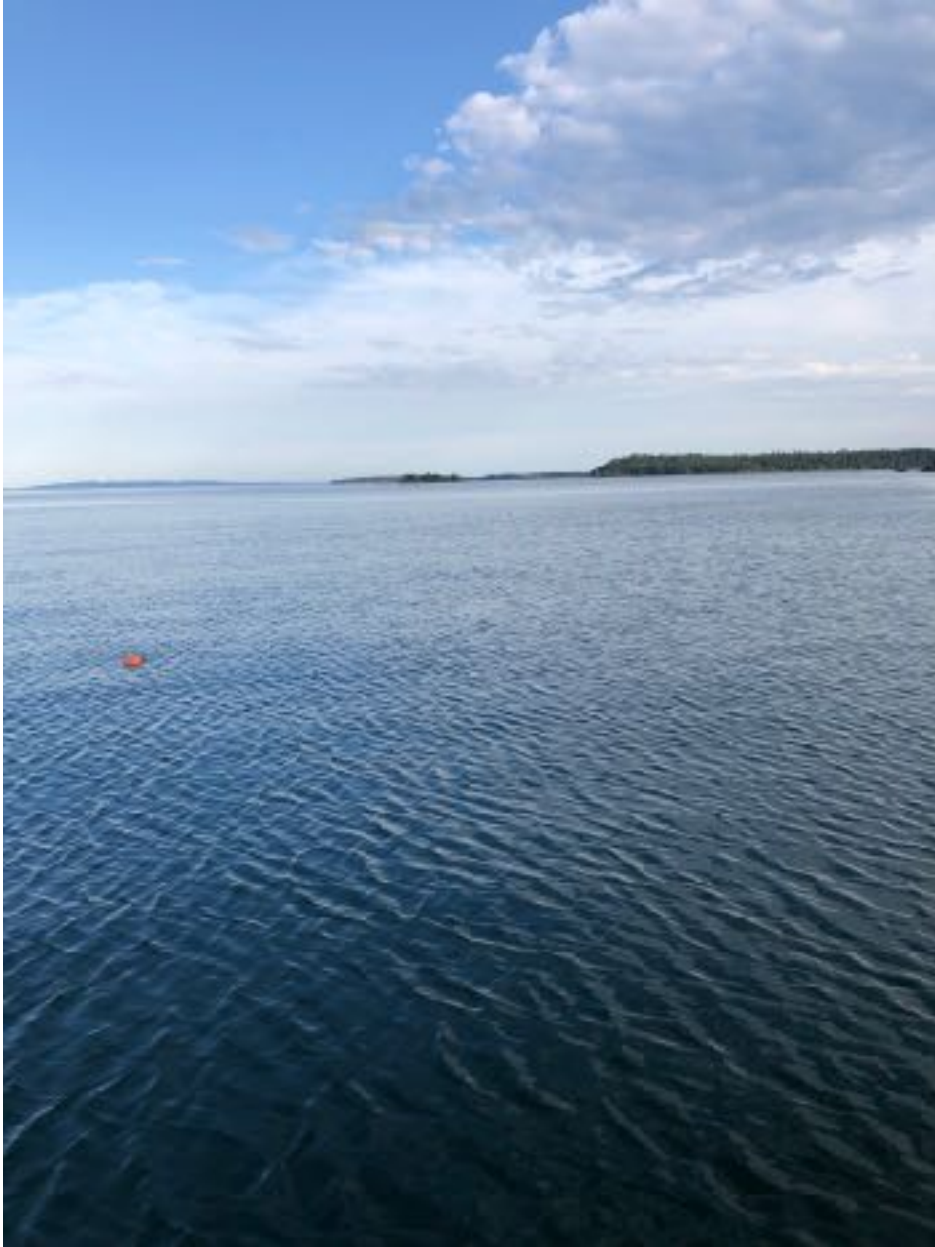
**E. Equipment Layout**

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.

Equipment Layout: 7E



Vantage Point looking North across the entire length of our current 800' long line, marked at each end by a white mooring ball and 7 surface buoys in between.



Vantage point looking South down our current 800' longline. This image contains 5 of our surface buoys and a white mooring ball pictured at the far end.

## F. Marking

Will you be able to mark your site in accordance with DMR regulations, Chapter 2.80?

Yes     No

If you answered no, explain why and suggest alternate markings.

Yes, we are happy to comply with the regulations requiring all corners to be marked, in addition to providing markings every 300'. However, we do want to be good neighbors and would like to provide the least impact to navigation. An extra 19 buoys to mark the boundary doesn't feel entirely necessary.

**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 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.

Scallops: Seed will be collected by setting spat bags using a spat collector license during the months of September and October (off site). Spat bags will be brought into the cove during the months of November and December where they will remain untouched until May and June. We will be onsite for 1-2 days at this time to overwinter the spat. Seed will be sorted out of the spat bags and into lantern nets and bottom cages during the spring, summer, and/or fall depending on growth rates. We estimate that we will be on site sorting spat for 1-2 weeks during these times, five days a week, for an estimated total of 5-10 days sorting spat in the spring, summer, and/or fall, depending on environmental conditions and growth.

Marine algae: Long lines will be seeded in the month of December. We will be on site for 1-2 days at this time, less than a week. We will play with a few different types of kelp (sugar kelp, dulse, alaria), and will likely not have more than 200,000 lbs total at a time, but the amount of each individual species year to year may change.

B. Please explain your proposed tending/maintenance activities.

Scallops: Maintenance includes cleaning and sorting the lantern nets. Cleaning will be done by dipping the lantern nets in a hot tank to remove any biofouling on the nets. The sorting will be done with an electric sorter, which is a shared piece of equipment with the Maine Aquaculture Co-op. We will also be using a wash down/pressure pump to aid in the cleaning process. Down the road we may also have a net washer. We will be using noise generating equipment while working, and we will be mitigating that noise via the use of a shed, sound mitigating boxes, and solar panels. We estimate that we will be using this equipment roughly five days a week, for 1-4 weeks in the spring, summer, and fall, depending on our size and how much product we have growing. Specific timeframes depend on environmental conditions and whether or not we have assistance with labor.

Marine algae: There is minimal maintenance. We will check on the gear periodically (~ every 2 weeks) to ensure there's no entanglement, especially after storms, and to add flotation as needed .

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

Scallops: Maintenance will take place ~3 times a year (spring, summer, fall). Likely during the months of March/April, July, and October. The specific dates depend on environmental conditions and growth rates. We estimate we will be sorting/cleaning for one week per 800' long line (we are beginning with one long line, and at maximum working up to four) during each of these times. Thus, we will spend 1-4 weeks (five days a week) maintaining the gear in the spring, summer, and fall. In addition, during times when we aren't tending our gear or harvesting, we may visit the site weekly to inspect our gear and be sure the long lines are tending well. All maintenance will be done during daylight hours.

Marine algae: We will regularly check on the lines every two weeks or so, as well as after strong tides and storms.

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

Scallops: To harvest, we will use a hauler and either a jib crane (currently) or a mast and boom (in the future) to pull up our submerged long line. With our current set up, we then untie whichever lantern nets we are harvesting from, open them up on our sorting table, and empty the lantern net into fish totes. With a fully charged solar panel system, we shouldn't have any need to use the generator while harvesting.

Marine algae: We will work our way down the long line cutting the kelp off of the line and securing it in the boat.

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

Scallops: At most, we plan to be harvesting weekly from December-May when quantities allow. During the summer and fall our harvesting frequency will vary depending on the results of biotoxin testing, demand, and how much product we have. During June-November, we estimate that we will be harvesting 1-3 times a week, with a maximum of 5 times a week, during daylight hours.

Marine algae: We plan to harvest for one week in early June. The exact timing depends on environmental conditions (water temperature, etc.)

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



G. If no, please 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.

Scallops: This gear is in the water year round. Our “off season” plans are for the marine algae.

Marine Algae: After we harvest, we will remove our gear for the summer and fall. Thus, June-November we will not have any gear in the water in the marine algae section of the site. Buoys, long lines, and anchors will be removed from the water and stored either on a float off-site or on land.

## 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 site?

Our vessels include a 22’ Sisu outboard and and a 30’x14’ barge that we push with the outboard. These vessels will be on the site anytime we are working there. We plan to moor our boat at Brown’s Boatyard and our barge in Marsh Cove. Down the road we may invest in a larger boat to allow for easier transport in rough weather.

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?

Our powered equipment includes: 30’x14’ barge pushed by our boat, a propane-fueled hot tank, and a gas powered generator (Honda EU3000iS) to supplement the solar panels we plan to install. The solar panels with a back-up generator will power: a co-op owned electric sorting machine, an electric hauler, a wash down/pressure pump, a mast and boom (we currently use a small jib crane), and potentially a net washer down the road.

We will use the sorting machine, wash down pump, and solar panels/generator periodically when we are sorting and cleaning (for 1-4 weeks every spring, summer, and fall depending on our stock). We will use the hauler and mast and boom when we need to retrieve our long line each time we visit the site for maintenance and harvesting (roughly weekly in the winter, and a maximum of 5 days a week in the spring/summer). The harvesting process requires minimal usage of power (solar or gas).

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

We have invested in a solar panel on the house of our outboard so that we can turn the engine off while running any equipment on our boat. We have invested in electric equipment whenever possible on the barge in an attempt to reduce noise levels. The generator (rated at 50-57db) is located inside the shed on our barge. We plan to install solar panels on the shed in Spring of 2021 so that the generator becomes a last resort source of power. The wash down pump is also located in the shed to help reduce noise levels. Additionally, we plan to keep music, if any, to a low volume. Thus far while operating on our LPA's, we have not listened to music while working.

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.

Only in an emergency to check on the status of the long line if needed.

## 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.

We have four LPA’s under the ownership of Connor O’Neil (Previously CONE118, 219, 319, and 419; Currently: CONE118, 520, 620, and 720). These four LPA’s are strung together to create one 800’ long line.

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 plan to relinquish each of our LPA’s if the lease is granted: CONE 118, 520, 620, and 720.

## 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?

25-50ft [the variance is due to the variance in depth at the deepest (where the scallop section is) and shallowest (where the seaweed section is) locations on the site]

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

35-60ft

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

Current speed: 0.49 ft/sec  
Current direction: Southeast - Northwest

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.

1. What are the bottom characteristics (mud, sand, gravel, rock, ledge or some mix, etc.)?

Gravel/mud/mixed

2. Describe the bottom topography (flat, steep rough, etc.).

Relatively flat, sloping into a trench

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?

Sea squirts- abundant  
Sea stars- abundant  
Scallops- common  
Green Crab- common  
Rock Crab- abundant  
Sand Crab- abundant  
Lobster- common  
Sea cucumber- common

4. Are there shellfish beds or fish migration routes in the surrounding area? If so, please describe.

We had a diver take video footage of the bottom where the proposed lease is and there was no sign of shellfish beds, although some wild scallops were present. When the area is open during scallop season, we do see dragger boats in the area outside of Marsh Cove. We have seen schools of mackerel, pogies, etc. in Marsh Cove, but have no knowledge of migration routes coming into the cove.

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.

There are no signs of eelgrass within the proposed lease. We have observed in general that sugar kelp is present within the proposed lease area.

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

Forested, a segment of sandy/rocky beach, steep ledge, and residential.

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.

## 12. EXISTING USES

A. 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 the activity occurs; c) frequency; and d) proximity to the lease site.

### 1. Commercial Fishing

Minimal lobster fishing occurs in the proposed area. We chose this location through speaking to various North Haven lobstermen to determine an area that would have the least possible impact on our local fishermen's income. Several lobstermen who have historically set gear there claim that it is not a location of significance to them. One Stonington lobsterman set a single string of traps through the proposed site from July-August in 2019, and on and off throughout July-September 2020.

### 2. Recreational Fishing

Recreational fishing does occur in the cove. Landowners have mentioned fishing for mackerel, among other species.

### 3. Boating Activities (please also include the distance to any navigable channel(s) from your proposed site at low water).

Marsh Cove residents utilize the cove for boating and sailing activities. We have watched motor boats and a 40+ ft sailboat cruise over our current LPA's without any issues. Our seaweed gear will be out of the water by early June, before (if not right around when) the floats, moorings, and boats tend to return to the cove. Thus, the scallop section of our lease will be the only section present when boating activities occur.

Some cruising boats do anchor in the cove overnight. To our knowledge, the common location to anchor is closer to the shore, where there is more protection, shallower water, and the bottom is more conducive to anchoring. The bottom in the deep hole where we are is rockier and not as conducive to anchoring.

The cove is removed from the navigable channel, well over 1,000 ft.

### 4. Riparian Ingress/Egress

There are several privately owned motor and sailing boats that are moored in Marsh Cove in the summer months. The closest mooring is 370 ft from the site.

### 5. Other uses (kayaking, swimming, etc.):

We have observed kayaking and water skiing occurring in the cove in the summer months. Residents also report swimming, canoeing, and snorkeling. All of these activities can occur within the boundaries of the lease, although we would recommend that water skiing take place outside of the boundaries of the lease due to the presence of surface buoys.

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 proposed lease.

The closest mooring is 370 ft away, and the closest fixed pier is 670ft away.

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.

According to the North Haven Tax Maps, all of the beaches are privately owned by the landowners in Marsh Cove, including Hog Island.

### 13. EXCLUSIVE USE

If your lease is granted, what activities would you request be excluded from occurring within the boundaries of the lease site? In your answer please address applicable commercial and recreational fishing, boating activities, and other activities you listed in the 'Existing Uses' section of this application.

Boating activity is welcome within the boundaries of our proposed lease.

We would request that commercial and recreational fishing does not take place within the boundaries of the lease. This is to ensure that our gear doesn't get tangled with anyone else's fishing gear. One exception to that would be that we will allow some fishing in the Southeastern section (the 5 acres for marine algae) of our lease site from July-October, once we have removed our lines. This fishing will be limited to a) commercial lobster fishing and b) recreational fishing. We will delineate this section and be in contact with the commercial fishermen that we have seen fishing in this area.

#### 14. 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), 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

**Please find the labeled Tax Map on page 47.**

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.

3. If any portion of the site is intertidal, you need to complete the steps outlined in the section titled: “19. Landowner/Municipal Permission Requirements”.

Not applicable

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 “19. Landowner/Municipal Permission Requirements” of this application.

C. How will you access the proposed site?

By boat.

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

Our activities will minimally impact ingress and egress. Boats can come and go over our site as they wish. Only the small section we are working on in any given moment will be above water. If one would prefer to go around our site, there is space around the perimeter to do so (430ft in the narrowest section between the site boundary and Hog Island). The largest impact to ingress and egress will be the buoys on the kelp section of the farm, which are present from Dec-early June. Based on our observations, the majority of the moorings and boats return to the cove in June and July. Thus, the majority of boat activity in July and August will not be impacted by the marine algae section of the farm.



**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: North Haven

MAP #	LOT #	Landowner name(s) and address(es)
22	9	Lucinda Watson - 161 Harrison Ave, Sausalito, CA 94965
28	3 + Hog Island	Norfam Corporation - 30 Long Creek Dr, Portland ME 04106
22	12	Helen Cook - 178 Parsonage Rd, Greenwich, CT 06830
22	2 + 8A	Charles Beveridge - 1204 Russel Rd, Alexandria, VA 22301
22	7 + B	Norma Merolla - 133 Gilbert Stuart Dr, Warwick RI 02818
22	6	Alan Howe, Richard Howe, Marjorie Brown - 189 Sycamore St, Somerville, MA 02145
22	4 + 4A	Cynthia Kelley - 2625 North 58th St, Scottsdale, AZ 85257
22	3	Rose Christiansen - PO Box 205, Rogers, ND 58479
22	2D	Elena Baylis + Donald Munro - 3914 Huntington St NW, Washington DC 20015
13	4F	Thomas Duff - 39 County Rd, Essex, MA 01929
13	4E	Katherine Beveridge-Titterton - 952 Bar Harbor Rd, Trenton, ME 04605
13	4D	Lynford Beverage, Albion Beverage, Grace Ball - 1916 Myrtle Ave, Punta Gorda, FL 33950
13	4C	Marion L. Mann - 266 Beechwood Dr, Rosemont, PA 19010

Please use additional sheets if necessary and attach hereto.

**CERTIFICATION**

I, Kathleen S. Macy, Town Clerk for the Town of North Haven 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: Kathleen Stone Macy DATE: 1/23/2020  
 Recertified by Kathleen Stone Macy 1/17/2021

## 15. TECHNICAL CAPABILITY

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

Aquaculture- and business-related education:

- Top Gun Program, Maine Center for Entrepreneurs (won \$2,500 prize for placing in the top two in the Aquaculture cohort regional pitch-off)
- Aquaculture Business Development Program, Island Institute
- Maine Aquaculture Co-op, Members since 2017
- National Seaweed Symposium, NOAA Sea Grant

Other relevant resume items:

Hannah Twombly

- Colby College '16 Bachelor of Arts Environmental Policy; Minor in Managerial Economics
- Gulf of Maine Research Institute, Intern '14, Compiled shellfish data to determine sustainability of the Gulf of Maine's various shellfish fisheries.
- Sternman f/v Craig & Avery (1 year)

Connor O'Neil

- Colby College '15 Bachelor of Arts Environmental Policy
- Sternman f/v Craig & Avery (3 years)
- Work experience at Browns Boatyard (North Haven, ME)
- Experience commercially digging clams in Freeport, ME
- Worked with DEI and Dr. Brian Beal to conduct research on the impact of invasive green crabs on soft shell clam populations in Freeport, ME

**Please find full resume's attached if more detailed information is desired; pages 49-52 .**

## 16. FINANCIAL CAPABILITY

### A. Financial Capability

Please provide documentation to demonstrate you have the financial resources to implement the proposal. For example, you may submit a letter from a financial institution or funding agency indicating that you have an account in good standing, or their willingness to commit funds.

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

**Please find letters attached on pages 53-54**

**B. Cost Estimates**

Please provide cost estimates of the proposed aquaculture activities.

Scallops: Roughly \$13,000 per long line, total cost being \$53,000.

Kelp: Roughly \$1,270 per kelp long line (800'). Total cost for the maximum number of kelp long lines we would have (20 lines) is \$25,400.

Total cost comes to \$69,400.

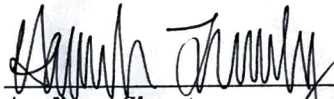
**17. ESCROW ACCOUNT OR PERFORMANCE BOND**

Check the category that describes your operation:

Check Here	Lease Category	Amount of Required Escrow or Performance Bond
	No gear/structure, no discharge	None
	No gear/structure, discharge	\$500.00
	≤ 400 square feet of gear/structure, no discharge	\$1,500.00
X	>400 square feet of gear/structure, no discharge	\$5,000.00*
	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) Hannah Twombly 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.

  
 \_\_\_\_\_  
**Applicant Signature**  
*Note: Add title if signing on behalf of a corporate applicant.*

1/14/21

\_\_\_\_\_  
**Date**

**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) Connor O'Neil 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.

  
 \_\_\_\_\_  
**Applicant Signature**  
*Note: Add title if signing on behalf of a corporate applicant.*

1/14/21

\_\_\_\_\_  
**Date**

**18. 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: Hannah Twombly

Title (if corporate applicant): Manager / Member

Signature:  Date: 1/14/21


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: Connor O'Neil

Title (if corporate applicant): Manager / Member

Signature:  Date: 1/14/21

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

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

Not Applicable

**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? <input type="checkbox"/> Yes <input type="checkbox"/> No
--

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

## APPLICATION SUBMISSION CHECKLIST

**Please note:** This checklist is provided for the applicant's reference and does not need to be returned with the application.

### I. Content

Check for non-refundable application fee (\$500 for Draft Applications and \$1,000 for Final Applications), payable to *Treasurer State of Maine*.

N/A Newspaper Tearsheet showing notification of scoping session (Draft Applications only)

One (1) Vicinity map with required items shown

One (1) Boundary drawing with required items shown

One (1) Gear drawing for each type of gear proposed

One (1) Overhead view depicting layout of gear from overhead

One (1) Cross section view depicting gear & moorings from the side for each gear configuration

Tax map(s)

Riparian list, certified (*if applicable*)

Corporate applicant information document and articles of incorporation or documentation of partnership (*if applicable*)

**If any portion of the proposed lease site is above mean low water:**

N/A Written permission from all riparian landowners of the intertidal land on which the lease is proposed.

N/A Written consent from the municipal officers (only required if the municipality has a shellfish conservation program).

### II. Formatting

All pages (including attachments) are numbered sequentially

All attachments are clearly labeled and legible

Drawings and maps are legible, labeled properly, and include all required elements

All questions have been answered and signature pages signed

Please do not staple applications



**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: Maine Island Aquaculture, LLC

2. Date of incorporation: 5/17/18 State of incorporation: Maine

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

<b>Name</b>	<b>Address</b>	<b>Title</b>
Hannah Twombly	P.O. Box 346, North Haven, ME 04853	Manager/Member
Connor O’Neil	P.O. Box 346, North Haven, ME 04853	Manager/Member

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

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

<b>Name</b>	<b>Address</b>
Hannah Twombly	P.O. Box 346, North Haven, ME 04853
Connor O’Neil	P.O. Box 346, North Haven, ME 04853




**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.

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.

<b>Name</b>	<b>Address</b>	<b>Percentage of Owned Stock</b>
Hannah Twombly	P.O. Box 346, North Haven, ME 04853	50%
Connor O’Neil	P.O. Box 346, North Haven, ME 04853	50%

**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. If none, write, “None.”

<b>Name</b>	<b>Address</b>	<b>Lease Acronym</b>	<b>Acreage</b>
N/A			


**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:

<b>Name</b>	<b>Address</b>	<b>Ownership Shares</b>

**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.

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 or marine resources or environmental protection law, whether State or Federal?

Yes  No

If you selected “yes”, please provide details.

MAINE  
LIMITED LIABILITY COMPANY

STATE OF MAINE

CERTIFICATE OF FORMATION

Filing Fee \$175.00

File No. 20186488DC Pages 2  
Fee Paid \$ 175  
DCN 2181382260023 DLLC  
—FILED—  
05/17/2018

*Julie L. Flynn*  
Deputy Secretary of State

A True Copy When Attested By Signature

Deputy Secretary of State

Pursuant to 31 MRSA §1531, the undersigned executes and delivers the following Certificate of Formation:

**FIRST:** The name of the limited liability company is:

Maine Island Aquaculture, LLC

(A limited liability company name must contain the words "limited liability company" or "limited company" or the abbreviation "L.L.C.," "LLC," "L.C." or "LC" or, in the case of a low-profit limited liability company, "L3C" or "l3c" – see 31 MRSA 1508.)

**SECOND:** Filing Date: (select one)

- Date of this filing; or  
 Later effective date (specified here): \_\_\_\_\_

**THIRD:** Designation as a low profit LLC (Check only if applicable):

- This is a low-profit limited liability company pursuant to 31 MRSA §1611 meeting all qualifications set forth here:
- A. The company intends to qualify as a low-profit limited liability company;
  - B. The company must at all times significantly further the accomplishment of one or more of the charitable or educational purposes within the meaning of Section 170(c)(2)(B) of the Internal Revenue Code of 1986, as it may be amended, revised or succeeded, and must list the specific charitable or educational purposes the company will further;
  - C. No significant purpose of the company is the production of income or the appreciation of property. The fact that a person produces significant income or capital appreciation is not, in the absence of other factors, conclusive evidence of a significant purpose involving the production of income or the appreciation of property; and
  - D. No purpose of the company is to accomplish one or more political or legislative purpose within the meaning of Section 170(c)(2)(D) of the Internal Revenue Code of 1986, or its successor.

**FOURTH:** Designation as a professional LLC (Check only if applicable):

- This is a professional limited liability company\* formed pursuant to 13 MRSA Chapter 22-A to provide the following professional services:

\_\_\_\_\_  
(Type of professional services)

**FIFTH:** The Registered Agent is a: (select either a Commercial or Noncommercial Registered Agent)

Commercial Registered Agent CRA Public Number: \_\_\_\_\_

\_\_\_\_\_  
(Name of commercial registered agent)

Noncommercial Registered Agent

**Christopher R. Smith**  
\_\_\_\_\_  
(Name of noncommercial registered agent)

**One Portland Square, Portland, ME 04101**  
\_\_\_\_\_  
(physical location, not P.O. Box – street, city, state and zip code)

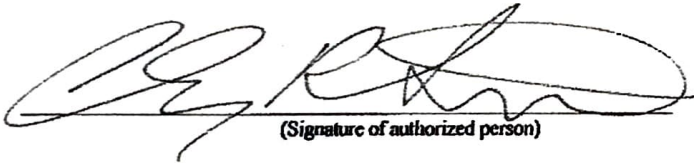
**P.O. Box 586, Portland, ME 04112-0586**  
\_\_\_\_\_  
(mailing address if different from above)

**SIXTH:** Pursuant to 5 MRSA §105.2, the registered agent listed above has consented to serve as the registered agent for this limited liability company.

**SEVENTH:** Other matters the members determine to include are set forth in the attached Exhibit \_\_\_\_\_, and made a part hereof.

**\*\*Authorized person(s)**

Dated May 15, 2018

  
(Signature of authorized person)

**Christopher R. Smith**  
\_\_\_\_\_  
(Type or print name of authorized person)

\_\_\_\_\_  
(Signature of authorized person)

\_\_\_\_\_  
(Type or print name of authorized person)

**\*Examples of professional service limited liability companies are accountants, attorneys, chiropractors, dentists, registered nurses and veterinarians. (This is not an inclusive list – see 13 MRSA §723.7)**

**\*\*Pursuant to 31 MRSA §1676.1.A, Certificate of Formation MUST be signed by at least one authorized person.**

The execution of this certificate constitutes an oath or affirmation under the penalties of false swearing under 17-A MRSA §453.

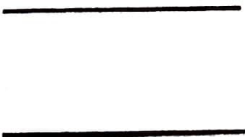
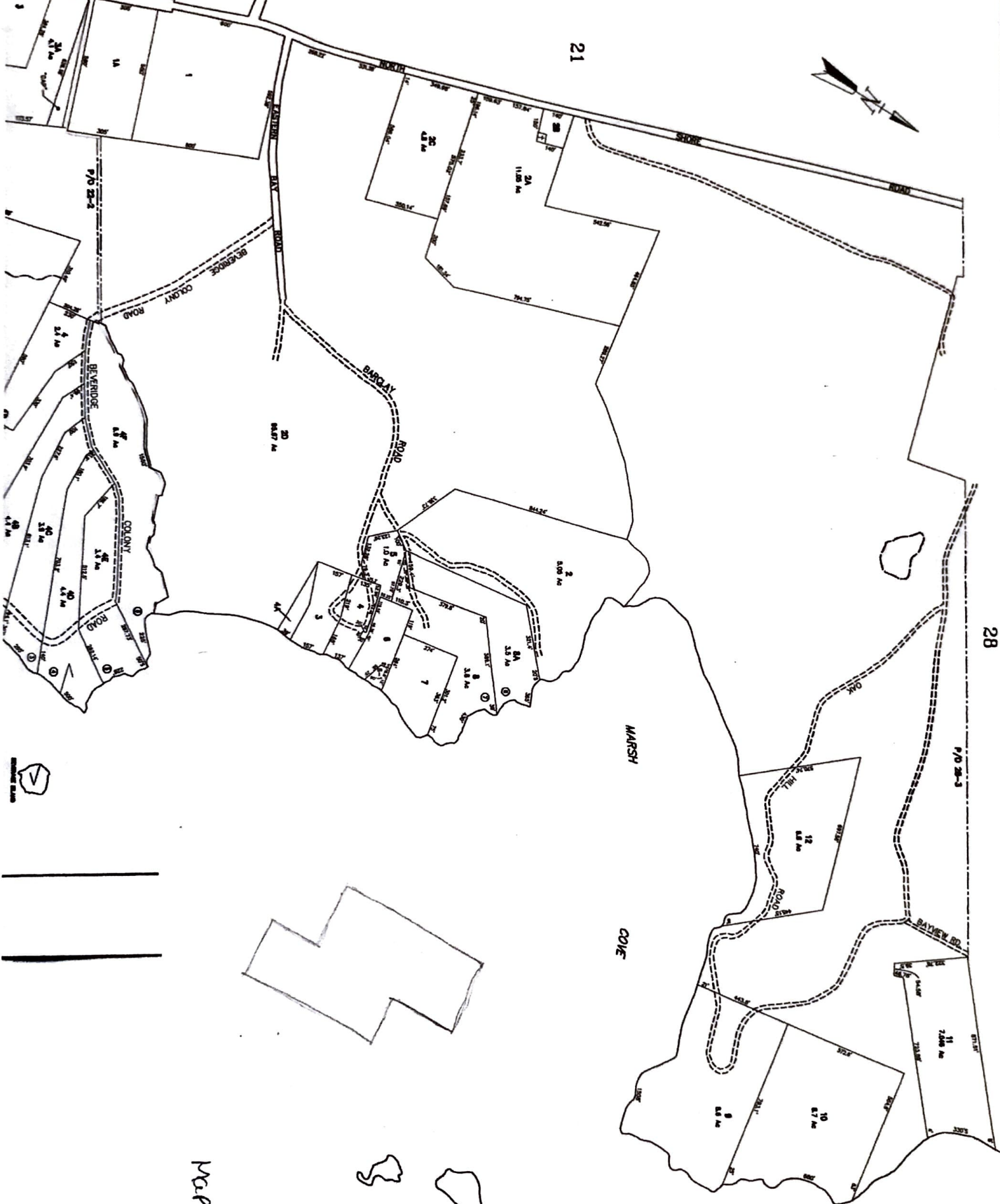
Please remit your payment made payable to the Maine Secretary of State.

Submit completed form to:

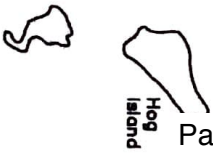
**Secretary of State  
Division of Corporations, UCC and Commissions  
101 State House Station  
Augusta, ME 04333-0101  
Telephone Inquiries: (207) 624-7752**

Email Inquiries: [CEC.Corporations@Maine.gov](mailto:CEC.Corporations@Maine.gov)

TAX MAP: Town of North Haven



MAP 22



Hog Island

## HANNAH E. TWOMBLY

hannahetwombly@gmail.com • (207) 272-3209 • P.O. Box 346, North Haven, ME 04853

### EDUCATION

<b>Colby College</b> , Waterville, ME, <i>Bachelor of Arts Environmental Policy; Minor in Economics</i>	<b>May 2016</b>
<b>University of Salamanca</b> , Spain	<b>Fall 2012</b>
<b>The Island School</b> , Cape Eleuthera, Bahamas	<b>Spring 2011</b>
<b>North Yarmouth Academy</b> , Yarmouth, ME	<b>Fall 2008-Spring 2012</b>

### EMPLOYMENT EXPERIENCE (location: North Haven, ME unless otherwise specified)

<b>Interior/Exterior Painting</b>	<b>Spring 2020-Present</b>
<b>Landscaping</b> , North Shore Garden & Design	<b>Summer 2020-Present</b>
<b>Sternman</b> , f/v Craig & Avery	<b>Summer 2019-Winter 2019</b>
<b>Administrative Assistant</b> , North Haven Sustainable Housing	<b>January 2019-Present</b>
<b>Bartender/Bar Manager</b> , Calderwood Hall	<b>June 2017- Present</b>
<b>Yoga Instructor</b>	<b>March 2018- Present</b>
<b>Farmhand</b> , Cider Hill Farm	<b>Fall 2017- Spring 2019</b>
<b>Market Cashier</b> , Calderwood Hall Market	<b>Summer/Fall 2017</b>
<b>Taproom Bartender</b> , North Haven Brewing Co.	<b>Summer 2017</b>
<b>Ski Instructor</b> , Squaw Valley/Alpine Meadows, CA	<b>Winter 2016/17</b>
<b>Hostess</b> , PlumpJack Cafe, Olympic Valley, CA	<b>Winter 2016/17</b>
<b>Waitress</b> , The Dockside Grill, Falmouth, ME	<b>Summer 2015- 2016</b>
<b>Intern</b> , Natural Resources Council of Maine, Augusta, ME	<b>January 2016</b>
<ul style="list-style-type: none"><li>• Compiled data and created GIS maps using ArcGIS 10.1</li><li>• Conducted research for testimonies to be presented in committee hearings at the State House</li></ul>	
<b>Spanish Tutor</b> , Colby College, Waterville, ME	<b>Fall 2014- 2015</b>
<b>Intern</b> , Gulf of Maine Research Institute, Portland, ME	<b>Summer 2014</b>
<ul style="list-style-type: none"><li>• Determined the viability of including shellfish in the GMRI Gulf of Maine Responsibly Harvested Branding Program; developed a final report and presented findings to scientists and staff</li></ul>	
<b>Dockhand</b> , Brewer's South Freeport Marine, South Freeport, ME	<b>Summer 2010- 2013</b>

### AQUACULTURE-RELATED EDUCATION

<b>Top Gun Program</b> , Maine Center for Entrepreneurs	<b>Spring 2020</b>
<b>Aquaculture Business Development Program</b> , Island Institute	<b>Spring-Fall 2018</b>
<b>Maine Aquaculture Co-op</b> , Member since 2017	
<b>National Seaweed Symposium</b> , NOAA Sea Grant	<b>March 2020</b>
<b>Maine Fisherman's Forum</b> , attended in 2018, 2019, 2020	

### LEADERSHIP

<b>Co-president</b> , Environmental Coalition, Colby College	<b>Fall 2015- Spring 2016</b>
<ul style="list-style-type: none"><li>• Responsible for running meetings, creating the agenda, and being the spokesperson for the club</li><li>• Worked with the Environmental Advisory Group to create a college sustainability action plan</li></ul>	
<b>Earth Week Coordinator</b> , Environmental Coalition, Colby College	<b>Fall 2013- Spring 2016</b>
<ul style="list-style-type: none"><li>• Organized educational/social events relating to sustainability during the week of Earth Day</li></ul>	
<b>Iced COOT Leader</b> , Colby College	<b>Winter 2015</b>
<ul style="list-style-type: none"><li>• Leader for an ice climbing orientation trip for incoming first semester abroad freshmen</li></ul>	

### AWARDS

<b>Top Gun Pitch-off</b>	
<ul style="list-style-type: none"><li>• Won \$2,500 prize for executing one of the top two pitches among the aquaculture cohort of the 2020 Top Gun program</li></ul>	<b>2020</b>
<b>Coaches Award</b> , Colby Women's Varsity Soccer Team	<b>Fall 2015</b>
<b>Captain's Award</b> , Colby Women's Varsity Soccer Team	<b>Fall 2014</b>

**COMMUNITY SERVICE**

---

**Board Member**, North Haven Conservation Partners

**Fall 2018- Present**

**Food Recovery Network**, Colby College

**Fall 2015- Spring 2016**

- Recovered leftover dining hall food and brought to local soup kitchen

**Colby Cares about Kids (CCAK) Mentor**, Colby College

**Fall 2014- Fall 2015**

- Mentor for a fourth grade student at the Albert Hall School in Waterville



# CONNOR O'NEIL

oneilconnor@gmail.com ♦ (207) 347-1022 ♦ P.O. Box 346, North Haven, ME 04853

## EDUCATION

**Colby College**, Waterville, ME **Bachelor of Arts, May, 2015**  
*Major:* Environmental Policy  
**Cheverus High School**, Portland, ME **Diploma, June 2011**

## ENVIRONMENT-RELATED WORK EXPERIENCE

**Insource Renewables**, Pittsfield, ME **March 2016 – April 2016**

- Assisted with administrative/sales work pertaining to solar and heat pump installations

**Assured Solar Energy**, North Yarmouth, ME **October 2015 – February 2016**

- Installed roof-top and ground-mounted PV systems

**Downeast Institute for Applied Marine Research (DEI)**, Beals Island, ME **May 2014 – August 2014**  
Internship

- Conducted research in Freeport, ME focused on understanding the impacts of invasive green crab predation on local shellfish populations

## OTHER WORK EXPERIENCE

**Sternman**, f/v Craig & Avery, North Haven, ME **Summer/Fall 2018-Present**  
**LaBelle Building**, North Haven, ME **Winter 2017-18, 2018-19, 2019-20**

- Carpentry and construction

**Brown's Boatyard**, North Haven, ME **April-Aug 2016 , June- Sept 2017**

- Everything from fiber glassing and repairing boats/outboards to selling fuel and miscellaneous items in the store

**Ski Instructor**, Squaw Valley/Alpine Meadows, CA **December 2016 - April 2017**  
**Busser**, PlumpJack Cafe **December 2016 - April 2017**  
**Ski Instructor**, Sugarloaf Mountain Resort, Carrabassett Valley, ME **December 2015 – March 2016**  
**Warren Construction Group**, Freeport, ME **June 2015 – September 2015**

- Used environmentally sound practices along with manual labor and craftsmanship to assist in building, finishing, and deconstructing homes/other commercial buildings

**Self-employed Commercial Shellfish Harvester**, Freeport, ME **2012 – 2014**

- Hand dug soft-shell clams and quahogs to help pay for college
- Personally hauled over 5,000 lbs of invasive green crabs out of the Harraseeket River as part of a town funded project

**S&S Seafood**, Freeport, ME **2012**

- Assisted in the purchasing and selling of shellfish
- Recorded and maintained organization of transactions

**Gritty McDuff's**, Freeport, ME **2011**

- Bussed tables at the restaurant and continued to work off-site lobster bakes

**Lobstering**, Freeport, ME **2009 – 2010**

- Fished 10-15 lobster traps from a 20-foot skiff to help pay for high school
- Worked off-site lobster bakes for the restaurant Gritty McDuff's

## AQUACULTURE-RELATED EDUCATION

**Top Gun Program**, Maine Center for Entrepreneurs **Spring 2020**  
**Aquaculture Business Development Program**, Island Institute **Spring-Fall 2018**  
**Maine Aquaculture Co-op**, Member since 2017  
**National Seaweed Symposium**, NOAA Sea Grant **March 2020**  
**Maine Fisherman's Forum**, attended in 2018, 2019, 2020

## LEADERSHIP

**Colby Men's Basketball Team Captain** **2013-2015**

- Named team captain three years in a row

## AWARDS

**Top Gun Pitch-off** **2020**

- Won \$2,500 prize for executing one of the top two pitches among the aquaculture cohort of the 2020 Top Gun program

**Green Crab Mitigation Competition** **2015**

- Earned \$1,000 prize for ideas on how to mitigate invasive green crabs

**On Court Leadership Award** **2013 – 2015**

- Awarded by the Colby Men's Basketball coaching staff

**COMMUNITY SERVICE**

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**Board Member, North Haven Golf Club**  
**Freeport Middle School Girl's Basketball**

**August 2019- Present**  
**Summer 2014**

- Volunteer coach for 5<sup>th</sup> through 8<sup>th</sup> grade girls

September 13, 2019

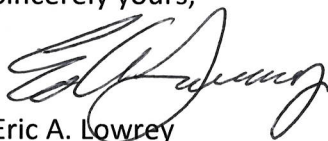
State of Maine  
Department of Marine Resources  
21 State House Station  
Augusta, ME 04333-0021

To Whom It May Concern –

Hannah Twombly maintains a banking relationship with Bank of America and her accounts are in good standing.


Please do not hesitate to contact me for any further information if you have any questions.

Sincerely yours,



Eric A. Lowrey  
Managing Director

Bank of America  
1 Monument Square  
Portland, ME 04101  
(800) 882-1174

<sup>1</sup>Credit and collateral subject to approval. Terms and conditions apply. Programs, rates, terms and conditions subject to change without notice. Equal Housing Lender. 

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October 11, 2019

To Whom It May Concern;

Connor W O'Neil has an account with TD Bank and it is in good standing.

Sonja Neiman

A handwritten signature in black ink that reads "Sonja Neiman".

Customer Service Representative

TD Bank, America's Most Convenient Bank

