EXPERIMENTAL LEASE APPLICATION

1. APPLICANT CONTACT INFORMATION

Applicant	Jason Brewer			
Contact Person	Jason Brewer			
Address	18 Split rock rd			
City	Walpole			
State, Zip	ME, 04573			
County	Lincoln			
Telephone	207-380-7085			
Email	christinabrewer315@gmail.com			
Payment Type	☐ Check (included)			

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

2. PROPOSED LEASE SITE INFORMATION

Location of Proposed Lease Site				
Town	Boothbay			
Waterbody	Damariscotta river			
General Description (e.g. south of B Island)	Northwest of Carlisle island			
	Lease Information			
Total acreage (4-acre maximum) and lease term (3-year maximum) requested	2.5 acres for 3 years			
Type of culture (check all that apply)	☐ Bottom (no gear) ☐ Suspended (gear in the water and/or on the bottom) ☐ Net Pen (finfish)			
How many pending experimental lease applications (including this one) do you have pending?	One (1) Two (2) Note: An applicant may have no more than two pending experimental leases at any time.			
Do you have a legal interest in any entity that has a pending experimental application?	☐ Yes ☒ No If "Yes" provide the name of the applicant(s):			

	☐ Yes ☒ No		
	Note: If you selected "Yes", you need to complete the steps outlined in the section titled: "17. Landowner/Municipal Permission Requirements".		
	ine section titled. 17. Landowner/Municipal Fermission 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"):	WQ
Growing Area Section (e.g. "A1"):	A

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

4. GENERAL LEASE 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
Eastern/ American	Muscongus bay	
Crassostrea Virginica	Aquaculture Bremen, ME	500,000
3		
4.		
5,		
R. Do you intend to possess	s transport or sell whole or a	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

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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: <a href="maintained-number-plan-number-pl

5. VICINITY MAP

Note: You may embed the maps within the document, or attach the maps to the end of your application. If you attach the maps, please label them according to the instructions provided below. If you attach the map, please label it: '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 scalebar
- The approximate lease boundaries

6. BOUNDARY DRAWING

Note: If you attach a drawing, please label it '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.

Coordinates on boundary drawing Datum WGS84

7. RESEARCH PROGRAM AND OPERATIONS Directions: If you are cultivating more than one species, you will need to provide the below information for each species. Please attach a separate page if needed.
A. Type of study (check one): Scientific Research Commercial Research Please note: a) Product grown on experimental leases for scientific research cannot be sold. Results of scientific research are not kept confidential. b) Experimental leases for commercial research are not renewable. Results of commercial research are kept confidential.
B. What is the purpose of the study? If scientific, please include a detailed study design.
To determine the viability of Oysters in the proposed site.
C. Describe the general culture process for each species proposed.
Surface culture of American oysters in aquaculture cages.
The section of the se
D. What months will the proposed activities (i.e. seeding, tending, and harvesting) occur?
Seeding would occur 1-3 days per week, from May 15 - August 15 Tending would occur 1- 3 days per week, from april 1- December 1. Harvesting would eventually occur 1-3 days per week year round.

E. How often will you be at the site during seeding and harvesting periods?			
1-3 days per week.			

- F. How frequently will you visit/tend the site for routine maintenance (i.e. flipping cages, etc.)?
- 1-3 days per week.

I would also visit the site occasionally on days that I am lobstering nearby.

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

Harvesting would consist of removing mesh bags from cages.

H. 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 moved from the site.

Gear would remain onsite all year.

During a mild winter all gear would remain on the surface.

The exception would be a severe storm. In this case gear would be Sunk for 1-7 days.

During a severe winter all gear would be sunk from January - April.

I. What type of machinery (e.g. generator, drag, grading equipment, etc.) will you be using on the site? When and how often will the machinery be used?

Electric and hydraulic pot haulers would be used 1-3 days per week from April through December For 1-3 hours per day. In a rare instance haulers may be used during winter months for gear retrieval. Gas powered power washer may be used 1 day per week or less for 1-6 hours per use from April - December. All gasoline and power washer would be removed from the site after each use.

Sorter/ tumbler powered by gasoline generator may be mounted to work float.

Generator and all gasoline would be removed from the site after each use.

This equipment would be operated 1-2 days per week for 1-6 hours per day from April through Dec.

J. Please provide details on any predator control techniques you plan to employ.
Nana
None

K. 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)

Plastic bird spikes would be attached to floats using zip ties. Pictures included in gear plan.

8. EXISTING USES

Directions: Describe the existing uses of the proposed area. Please include the amount of activity, the time of year the activity occurs, frequency, and proximity to the lease site.

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 c) frequency, and d) proximity to the lease site for each existing use.

1. Commercial Fishing

Lobstering From May-Jan. Usually 6-14 traps are fished within 600'. (Including my own traps). None within site boundaries. Moderate to heavy lobstering occurs 800' to east and 1500' to the northeast. Pogy seineing occurs from June-oct. I have never observed a pogy seiner "set out" near the site.

2. Recreational Fishing

Recreational fishing is rare in this part of the river. I have observed Striped bass fisherman a couple of times over the years on Carlisle point. Approximately 600' to north.

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

95 percent of all boats travel either 800' to east or 2300' to East. Occasionally boats travel between Tarlisle and shore passing near site. Occasional boats travel to and from pleasant cove 600'+ to North.

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.)

There are no docks or access points within 1000'

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

I have never observed kayaking within site boundaries, but I have observed kayaks on Carlisle island many times. Kayaking may occur near site at some point. 25' between lines should be plenty of room, also paddling around the site would cause minimal inconvenience.

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.

No docks, moorings, or other access points within 1000'.

C. Are there public beaches, parks, or docking facilities within 1,000 feet of the proposed lease site. If yes, please describe and include approximate distances from proposed lease.
No.
*
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
There are 4 LPAs between 860' and 985' of the far south end of the proposed site. MRIT120, MRIT220, MRIT330, MRIT420
WINT 120, WINT 1220, WINT 1330, WINT 123
9. 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.
4 LPAs: JABR123, JABR223, JABR323, JABR423.
B. What are your plans for any existing leases and/or Limited Purposed Aquaculture (LPA) licenses if the lease is granted? Will any existing leases and/or Limited Purpose Aquaculture (LPA) licenses be relinquished if the lease is granted? If so, please indicate which ones.
LPAs would remain as is.

10. 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.

No activities would be excluded from occuring within site boundaries .

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?

NW corner- 9', SW corner-11', middle west- 15' east middle- 27' SE corner- 24' NE corner- 31'

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

NW-19', SW-21'- middle west -25', east middle-37' SE-34', NE 41'

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

South/north-ebb/flow approximately 1-3 mph. Ebb on north end runs from NW towards SE.

- 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.)?

Mud bottom.

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

Gradual drop-off from west to east. Slightly steeper on north end.

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?

Lobsters, rare in the site, but common nearby.

Green crabs, Rock crabs and Jonah crabs are common.

Horseshoe crabs are common.

Many types of fish are common including: striped bass, Mackerel, black sea bass, pogies, britt, cunner, and Pollock.

4. Are there shellfish beds or fish migration routes in the surrounding area? If so, please describe.
No
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.
No Eelgrass grows near site boundaries.
Seaweed grows on and near shore on rocks.
 Describe the general shoreline and upland characteristics (rocky shoreline, forested, residential, etc.)
Forested shoreline upland with no houses or structures of any kind.
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/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, phone: 207-287-5254) prior to application submission.

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F.	Will your operations discharge anything into the water such as feed (pellets, kelp, etc.) or chemical additives (therapeutants, chemical treatments, etc.)?
	Yes 🛮 No

Note: If you answered yes, you must submit a video of the bottom using a method prescribed by the Department. The video must be filmed between April 1 and November 15. If a discharge is proposed you will also need to obtain a Maine Department of Environmental Protection (DEP) discharge permit. For information on this permit please contact DEP's Wastewater Licensing Program (Gregg.wood@maine.gov, 207-287-7693). Further sampling may be required by DMR, or DEP, depending on the characteristics of the site or the proposed activities.

12. STRUCTURES (if applicable)

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 an **Overhead View** and **Cross-Section View** of your gear plans. It is important to note that, unlike Limited Purpose Aquaculture (LPA) Licenses, experimental and standard leases require that all gear, including moorings, must be located within the proposed lease boundaries.

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

A) Overhead View (please label this "Overhead View"):

Directions: All dimensions need to labeled with the appropriate units (i.e. 10ft, 10in)

- Show maximum layout of gear including moorings.
- Show dimensions of entire gear layout
- Show approximate spacing between gear.
- Show lease boundaries and the location of proposed markers on all drawings.

B) Cross-Section View (please label this "Cross Section View"):

Directions: The cross-section view must show the following:

- 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
- Water depth at mean high and mean low water

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) Gear Description

Directions: List and describe each individual gear type that you will use in the table below.

Specific Gear Type (e.g. soft mesh bag)	Dimensions (e.g. 16"x20"x2")	Time of year gear will be deployed (e.g. Spring, Winter, etc.)	Maximum amount of this gear type that will be deployed on the site (i.e. 200 cages, 100 lantern nets, etc.)	Species that will be grown using this gear type
4- bag oyster ranch Cages	36"x 42" X 24"	All year	300	Crassostrea Virginica
Mesh bags (inside cages)	33"x 19"x 3.75"	All year	1,200	Crassostrea Virginica
Polyform-LD (yellow) (black)	11.5 x 24"	All year	6 yellow and 20 black	Crassostrea Virginica
Galvanized Chain	3/8"	All year	Approximately 1,500'	Crassostrea Virginica
Helix anchors 1/2" Pot warp	9" helix 39.36" shaft approximat	All year	30 anchors	Crassostrea Virginica

D) Gear Drawing (please label this "Gear Drawing").

Directions: Include a drawing of an individual piece of gear for each of the gear type(s) you plan to use. The drawing(s) needs to depict the length, width, and height of each gear type with appropriate units referenced (i.e., 10in, 10ft, etc.).

13. 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 must be yellow and host reflective material.
⊠ Yes □ 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: 1st Coast Guard District, Aids to Navigation Office.

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, according to NOAA charts), the following supporting documents are required:
 - 1. A <u>labeled</u> 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 use the <u>Riparian Landowner List</u> (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

<u>Note:</u> 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 <u>DMRAquaculture@maine.gov</u> 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 "17. 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 "17. Landowner/Municipal Permission Requirements" of this application.
C. How will you access the proposed site?
I would access the site by boat from my moorings directly across the river. Boats would be: 32' lobster boat, 20' Carolina skiff and 19' lobster skiff. Outboards both 4 stroke.

RIPARIAN LANDOWNER LIST

THIS LIST MUST BE CERTIFIED BY THE TOWN CLERK

On this list, please include the map number, lot number, and the current owners' names and mailing addresses for all shorefront parcels within 1,000 feet of the lease site. It is the applicant's responsibility to assemble the information for the Town Clerk to certify. The Town Clerk <u>only</u> certifies that the information is correct according to the Town's records. Once you have completed the form, <u>ask the Town Clerk to complete the certification section below.</u> If riparian parcels are located within more than one municipality, provide a separate, tax map and certified riparian list for each municipality.

TOWN OF: Boothbay

MAP#	LOT#	Landowner name(s) and address(es)
R-6	72	Carlisle Homestead LLC. c/o Sally Kent , manager 142 Deer run road, Bowdoin, ME 04287
R-6	75	Damariscotta river association PO Box 333 Damariscotta, ME 04543-0333
R-6	74-3	Peters, Stacy Hatley 1999 McKinney avenue #1805 Dallas, TX 75201
R6	74-2	Danyow, Brian j Danyow, Catherine 1 Danyow rd, Enosburg falls, VT 05450

Please use additional sheets if necessary and attach hereto.

CERTIF	ICA T	<u> 101 </u>	٧
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I. Andrea D. Lowery	,Town Clerk for the Town of	Boothbay	certify that the names
and addresses of the proper	ty owners listed above, as well a	is the map and lot	numbers, are those listed in
the records of this municipa	lity and are current as of this dat	e.	

SIGNED: DATE: 12/22/23

15. 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 rease the bond/escrow requirements for leases with mo	\$25,000.00
<u> </u>	int or obtain a performance bond, depending	on the category of lease.
nolicant Si	1 m	on the category of lease.
pplicant Since: Add title	gnature	Date on this section indicating that they see the space below for additional
pplicant Since: Add title DDITION pen an escre ersons listed (printed na	gnature e if signing on behalf of a corporate applicant. AL APPLICANTS: Each applicant must signwaccount or obtain a performance bond. Us	Date In this section indicating that they see the space below for additional hal pages, if necessary. have read DMR Aquaculture ted by DMR I will either open an

16. APPLICANT SIGNATURE PAGE

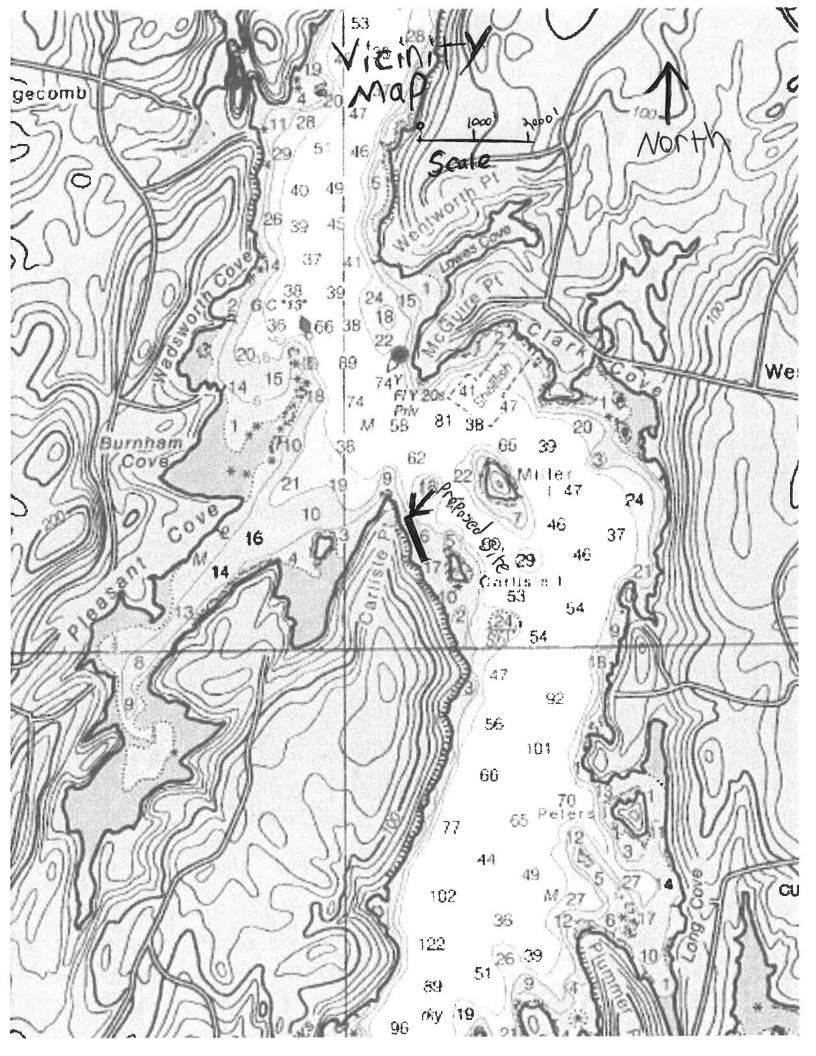
I hereby state that the information included in this application is true and correct. I have also read and understand the requirements of the Department's rules governing aquaculture and the application instructions pertaining to the experimental lease process.

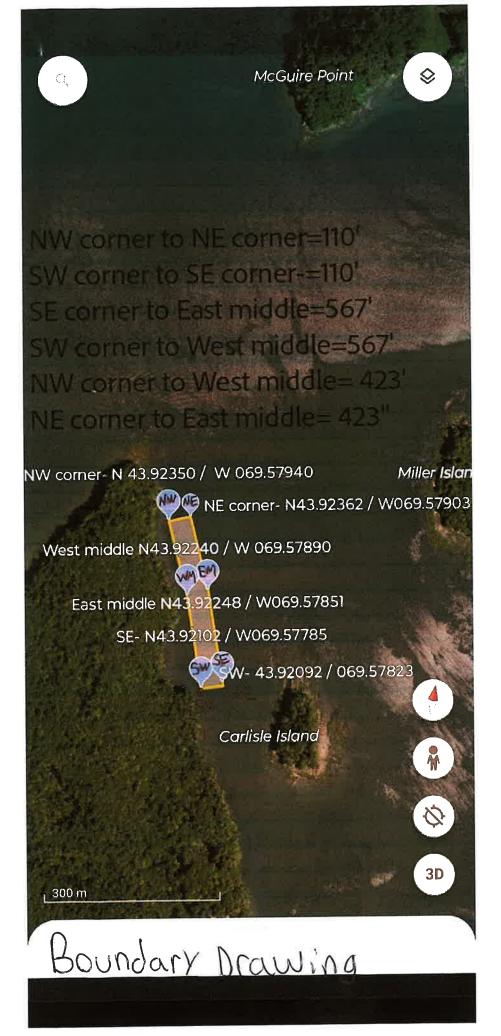
Printed name: <u>Jason Brewer</u>	
Title (if corporate applicant):	
Signature: Jun un	Date: 12/21/23

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.

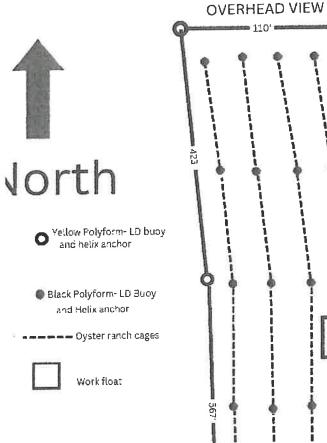
Note:

- 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 (i.e. President, Treasurer, etc.) of the individual(s) signing on the company's behalf.





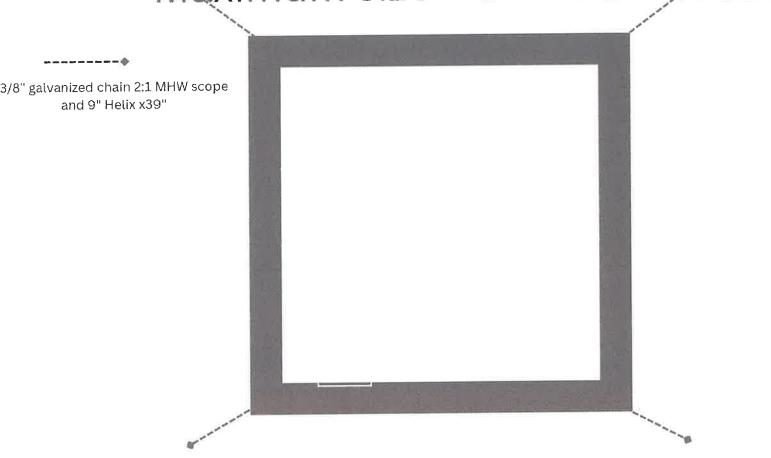




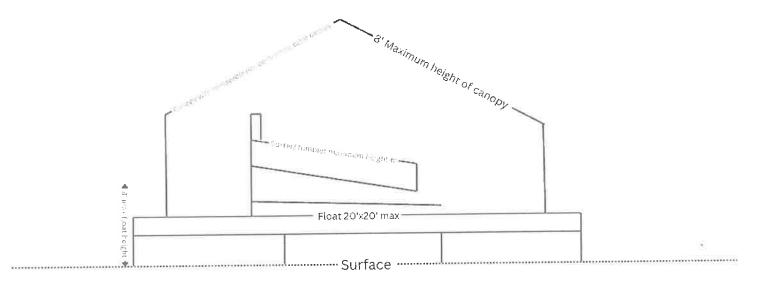
Maximum 20 oyster ranch cages per line spaced 7' apart . 15 lines spaced 25' wide . 2:1 chain scope at MHW on all anchors. Maximum 300 cages total.

Work float overhead view

Maximum size: 20'l X 20'w X

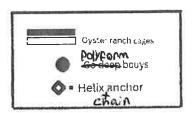


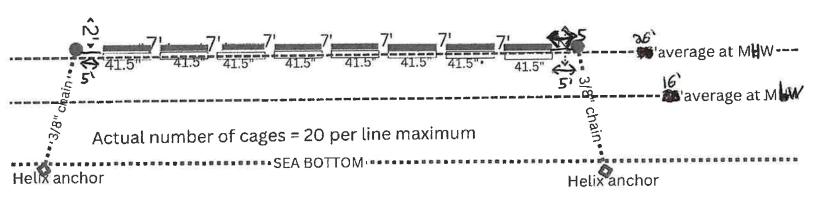
Work float side view



Maximum combined height of float and canopy 12' above sea level

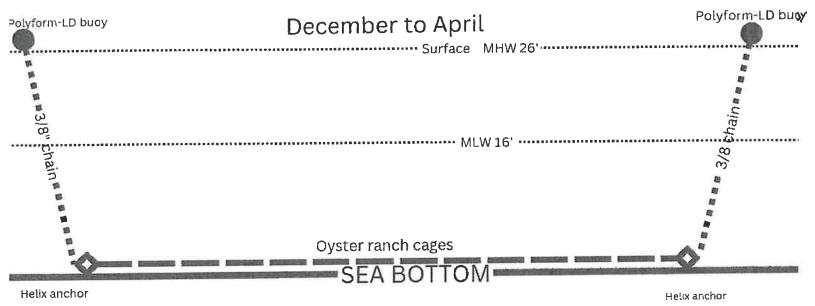
Cross Sectional view --- April through December---





3/8" galvanized chain 2:1 ratio at MHW on all anchors

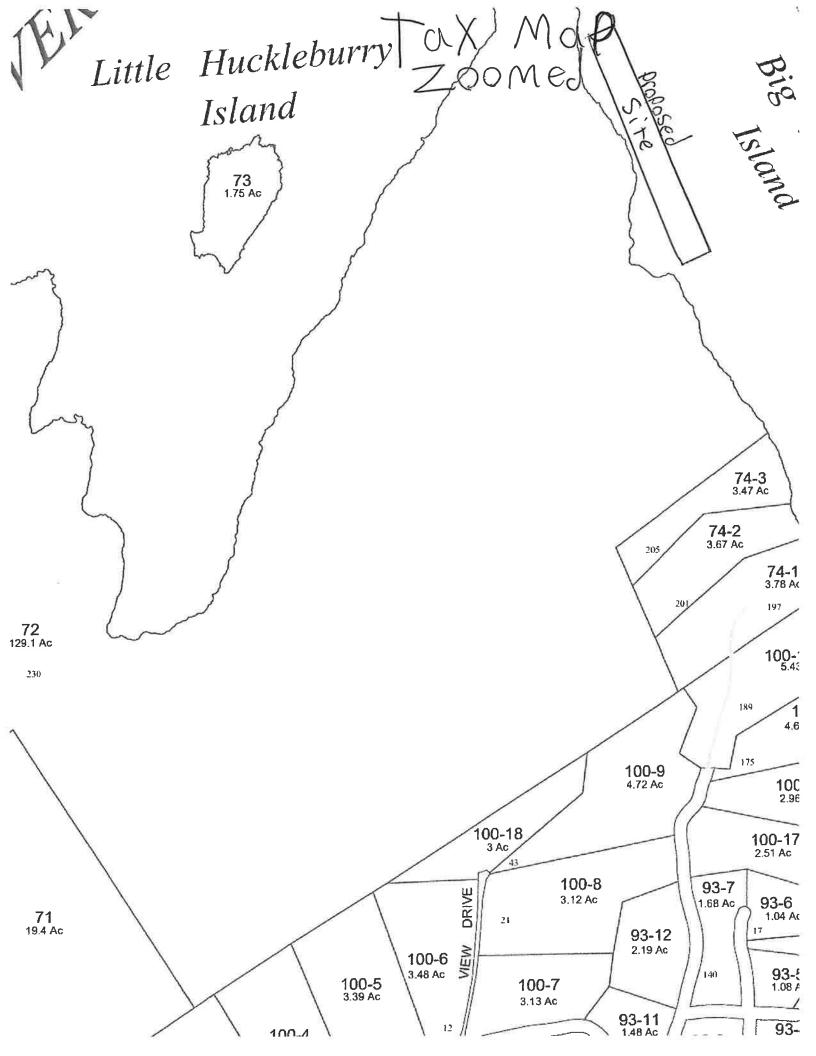
Cross-Sectition overwintering

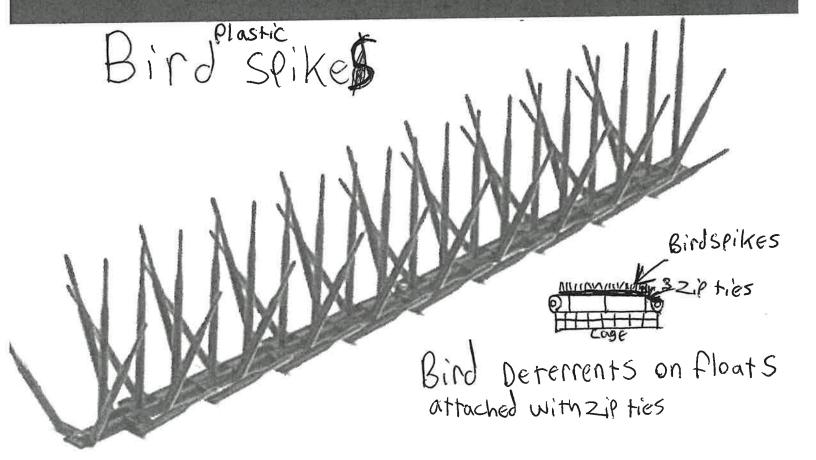


Maximum 20 cages per line

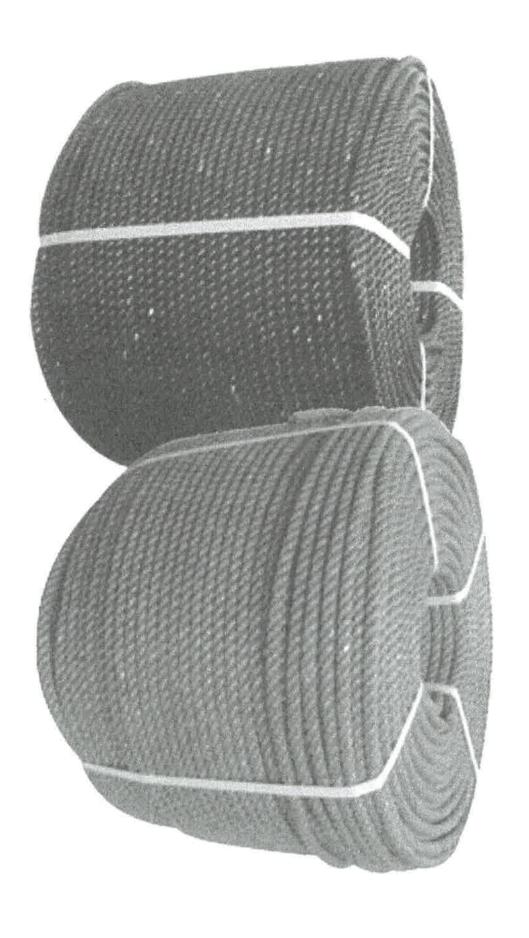
Same Polyform-LD buoys

ax M PROPERTY MAP BOOTHBAY M MAINE TOISING HINOS RIVER ETTO JETAKINKO Proposed Site 0 Stated Lihousaking A Christian Control R-3 RIVER CROSS -r06.pdf R-3 R-2 Lanod SKVar





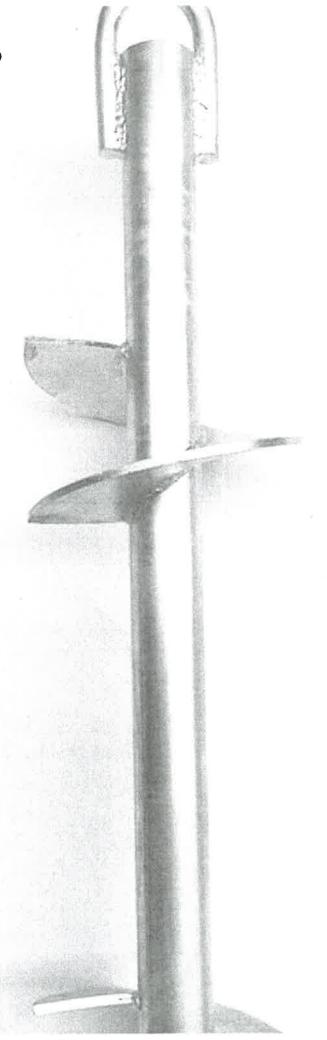
GREAN Plan



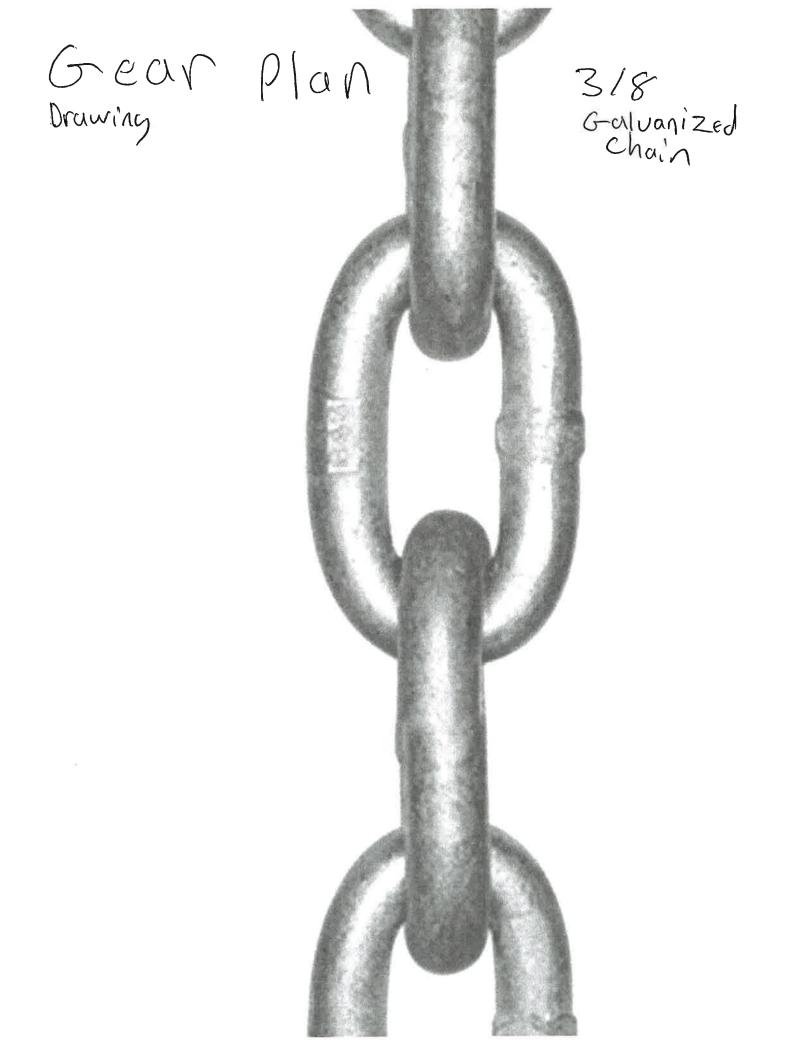
l

OT WARP STEEL LINER SINK 1/2" (SOLD BY T

Geal Drawing Plan



Helix Anchor 9" Helix 39.36" Lang



Gear Plan Drawing bolxtorm-TD Buor 11.5"X24"

1 44 5

33×19"x3.75" Mesh bags

Gear Plan

