



JANET T. MILLS
GOVERNOR

STATE OF MAINE
DEPARTMENT OF MARINE RESOURCES
21 STATE HOUSE STATION
AUGUSTA, MAINE
04333-0021

PATRICK C. KELIHER
COMMISSIONER

AQUACULTURE LEASE RENEWAL APPLICATION

For renewing a Scientific Experimental Lease

Please send this completed application and a certified tax map and updated list of riparian owners to the DMR Aquaculture Division at the above address. Please contact the Aquaculture Division at (207) 624-6567 or DMRaquaculture@maine.gov with any questions.

1. Name of leaseholder: University of Maine _____

Address: 193 Clark Cove Rd, South Bristol Maine _____

E-mail Address: adam.st@maine.edu _____ Telephone: 207-350-7629

2. Provide the acronym of the scientific lease you request to be renewed:
DAMLW2 _____

3. Describe the type and amount of aquaculture to be conducted during the new term:

The University of Maine utilizes this lease for many types of experimental aquaculture including culture of the following species:

Eastern oyster, *Crassostrea virginica*

Maximum 20,000 oyster standing stock/year. In general the standing population on the farm will fluctuate between 1,000-20,000 animals depending on whether trials are focused on seed, medium, or market sized individuals.

Atlantic sea scallop, *Plactopectin magellanicus*

Maximum 10,000 scallop standing stock/year. In general the standing population on the farm will fluctuate between 1,000-10,000 animals depending on whether trials are focused on seed, medium, or market sized individuals.

Marine macroalgae, *Saccharina latissima*, *Alaria Escuelenta*, *Laminaria digitata*, *Palmaria palmata* Maximum 500' of seeded line/year.

Softshell clams, *Mya arenaria*

Maximum of 2,000 animals depending on whether trials are focused on seed, medium, or market sized individuals.

Hard clams, *Mercenaria mercenaria*

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OFFICES AT 32 BLOSSOM LANE, MARQUARDT BUILDING, AUGUSTA, MAINE
<http://www.Maine.gov/dmr>

Maximum of 2,000 animals depending on whether trials are focused on seed, medium, or market sized individuals.

Razor clams, *Ensis directus*

Maximum of 2,000 animals depending on whether trials are focused on seed, medium, or market sized individuals.

Research Types:

Sentinel Site: During the new term, the site will be used as a sentinel site for survival and performance of genetically selected oyster lines from the University of Maine shellfish hatchery. Additionally, the site will be used as a sentinel site for growth and survival of hatchery reared sea scallops, also from a program with the U Maine hatchery, Downeast Institute, and Mook Seafarm. The site will be used in the winter to assess performance of kelp produced in the U Maine marine macroalgae nursery development laboratory. The site is paired with a Land Ocean Biogeochemical Observing buoy (LOBO) that provides real time oceanographic data.

Physiological and phenotypic research: The site serves as an experimental location for culturing organisms and understanding how differences in culture methods, genetics and their physiology impact growth, survival, performance and phenotype.

Applied research and extension: The site serves as a platform for the university to engage with industry on a wide range of applied, responsive and industry relevant research projects. Additionally, the site serves as a hands-on educational platform in support of multiple education and workforce development efforts not only at UMaine, but with partners across the state.

Climate smart aquaculture: Increasingly research at the site will be focused on understanding the impact of a changing climate and ocean on aquaculture in Maine as well as a site to understand how aquaculture can become more climate resilient as well as more climate friendly.

4. Describe the amount of aquaculture conducted on the lease site during the previous lease term, including but not limited to seeding, cultivation or harvest of organisms:

Over the lease term across various experiments and trials species grown on the site included:

- ***Crassostrea virginica***: Typically 10,000 oysters move through the farm each year.
- ***Saccharina latissima* & *S. latissima forma angustissima***: Maximum grown 1000kg/season
- ***Plactopecten magellanicus***: In general the standing population on the farm will fluctuate between 1,000-10,000 animals depending on whether trials are focused on seed, medium, or market sized individuals.
- ***Mya arenaria***: <2000 at any given time.
- ***Ensis directus***: <2000 at any given time.

Certified tax map *and* updated list of riparian landowners enclosed

\$100.00 application fee enclosed

8/3/23

Date



Signature of Leaseholder



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- RIPARIAN OWNERS 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 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 riparian parcels are located within more than one municipality, provide a separate, tax map and certified riparian list for each municipality.

TOWN OF: South Bristol

MAP #	LOT #	Landowner name(s) and address(es)
<u>28</u>	<u>08</u>	John and Peter Rounds, and Joan McVickar Revocable Trust 7 Orchard Drive Walpole, Maine 04573

Please use additional sheets if necessary and attach hereto.

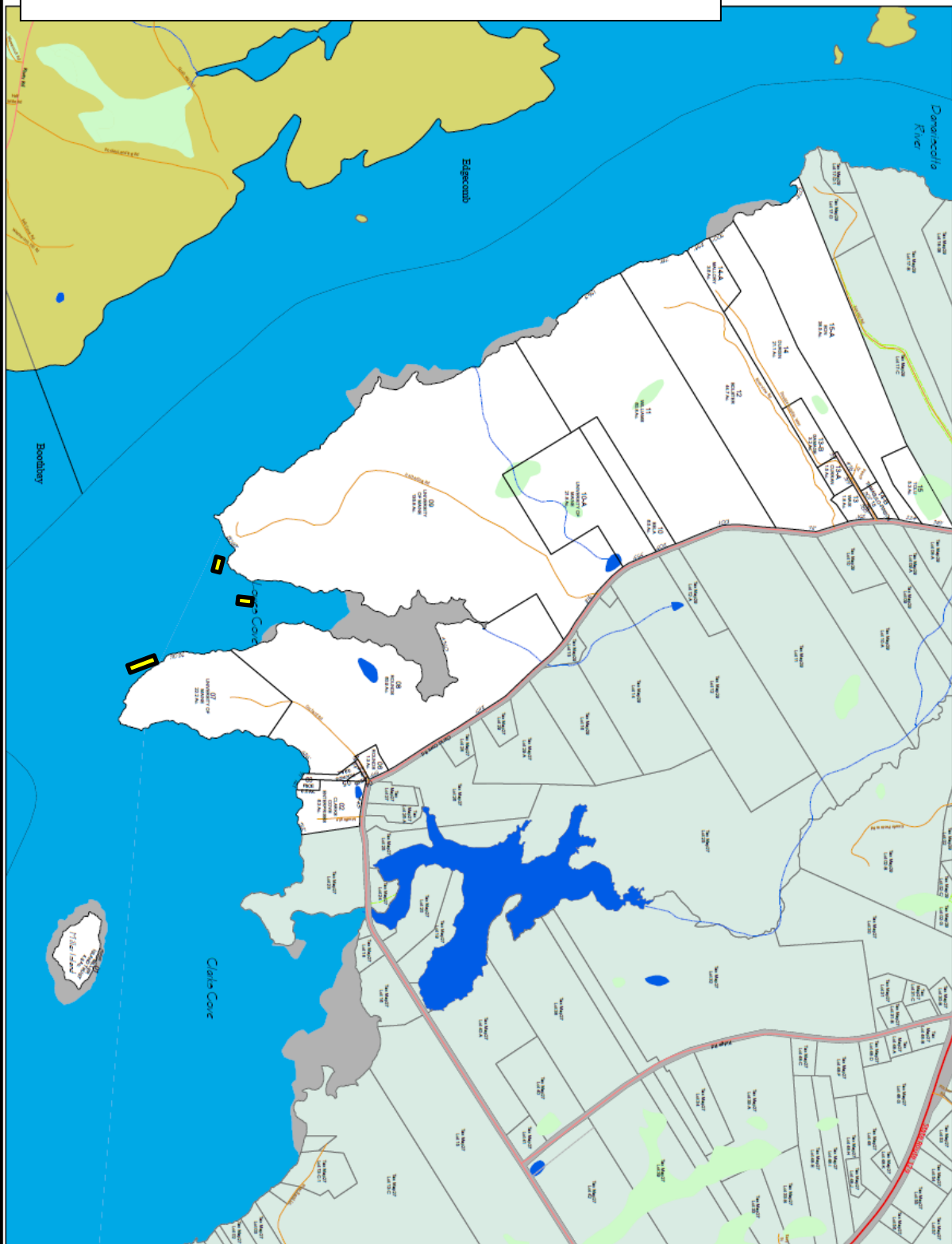
CERTIFICATION

I, Brenda Bartlett Town Clerk for the Town of South Bristol, 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: Brenda Bartlett DATE: 9/12/2023



Lease boundaries estimated via yellow boxes with black border



MAP 28

prepared by
 Rickard Clark
 27 CHESA CROWN ROAD
 WINDSOR, ME 04093

April 1, 2020

**For Assessment Purposes Only
 Not a Boundary Survey
 Not to Be Used for Conveyances**

Legend

- Current Parcels
- Adjacent Maps
- Ponds
- sub parcel lines
- Easements
- Private Roads
- Public Roads
- Road Class
 - Secondary
 - Local
 - Private
- Wetlands (NMU)
- Streams
- Tidal Waters
- Intertidal rocks and flats

1 inch = 400 feet
 0 200 400 600 Feet



**Property Map
 South Bristol
 Maine**

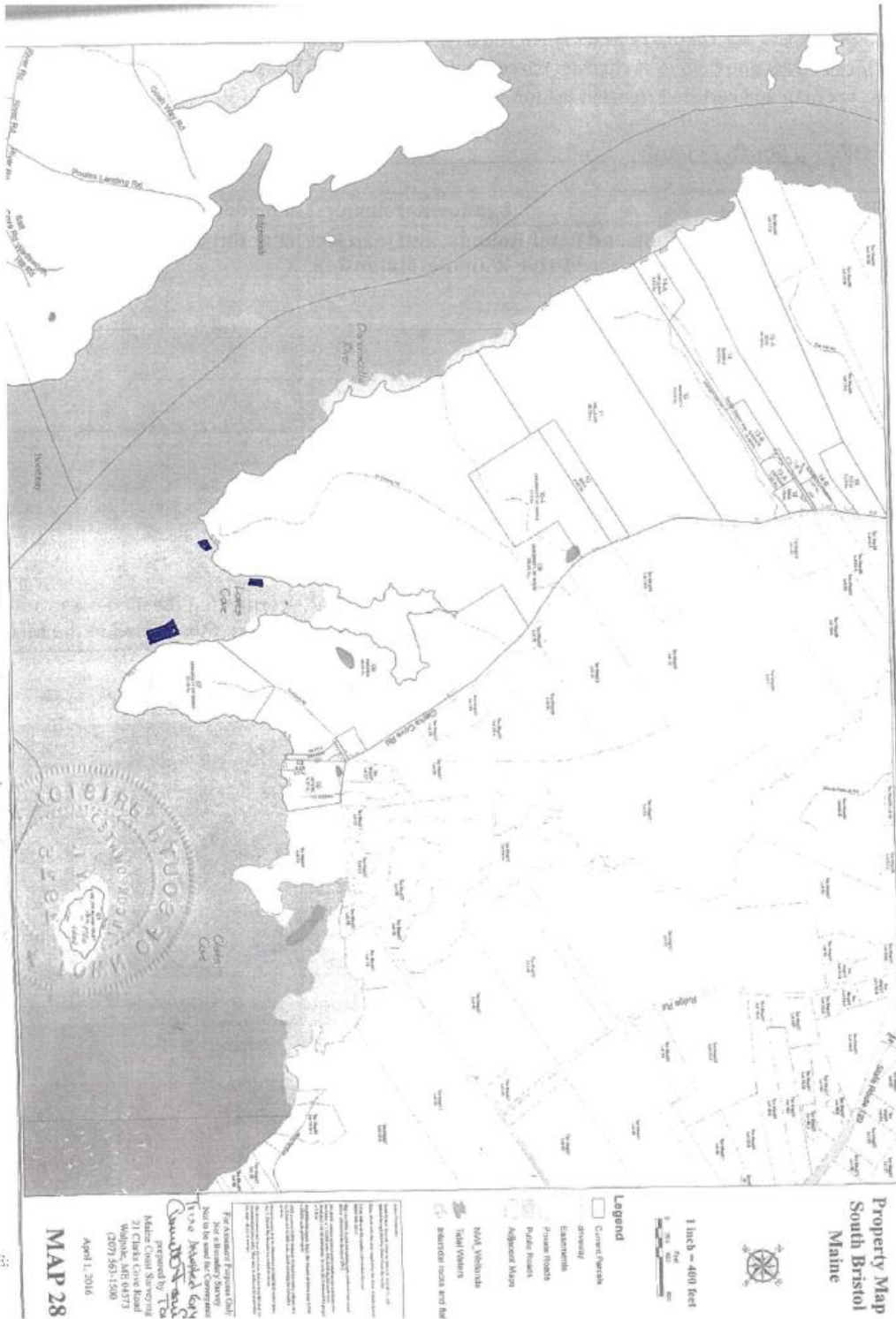


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Leane Boundaries Appendix



PHONE: