

RECEIVED

C: APPLICATION COVER SHEET FOR AN EXPERIMENTAL LEASE

Name: Terrell Gray APR 25 2011

Address: 110 West Side Drive

City: Verona Island

County: Hancock

State, zip: Maine, 04416

Telephone: business _____ home (207) 469-3436 cell (207) 460-4165

Email address: cgrayfamily2@msn.com

Location of lease site: town county waterbody
Surry Hancock Blue Hill Bay

Additional description High Head, Southern end of Newbury Neck
(e.g. south of B Island)

Total acreage requested (4-acre maximum): 4 acres

Growing Area # EG Water Quality Classification Conditionally Approved (Area 40B)

Type of culture (circle): Bottom (no gear) Suspended (gear in the water and/or on the bottom) Net Pen (finfish)

Name of species to be cultivated, common and scientific names:

Blue Mussels (Mytilus edulis, L.)

Name and address of the source of seed stock, juveniles, smolts, etc., to be cultivated:

Tight Rope Mussel Farm
460 US Highway 1 Hancock, ME. 04640

Amount of application fee enclosed: \$100.00
(\$100 payable to: Treasurer, State of Maine)

I hereby state that the information included in this application is true and correct and that I have read and understand the requirements of the Department's rules governing aquaculture.

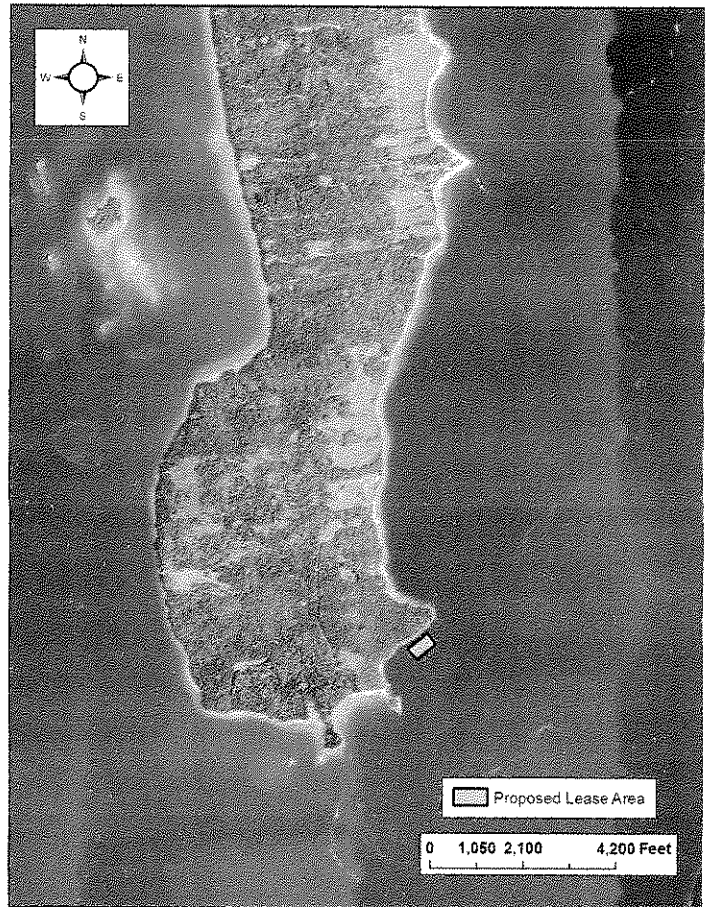
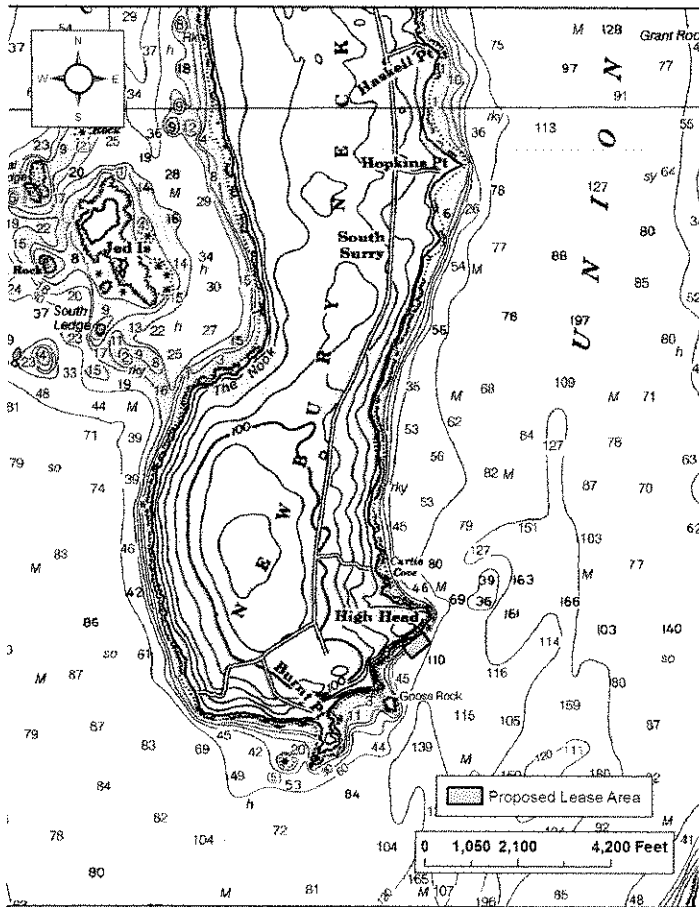
Signature: Terrell Gray Date: 4-21-11

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.

1. Location of Proposed Lease

The proposed lease site is located in the Town of Surry, Hancock County, Maine, on the southeastern end of Newbury Neck between Goose Rock and High Head.

A. Vicinity Map

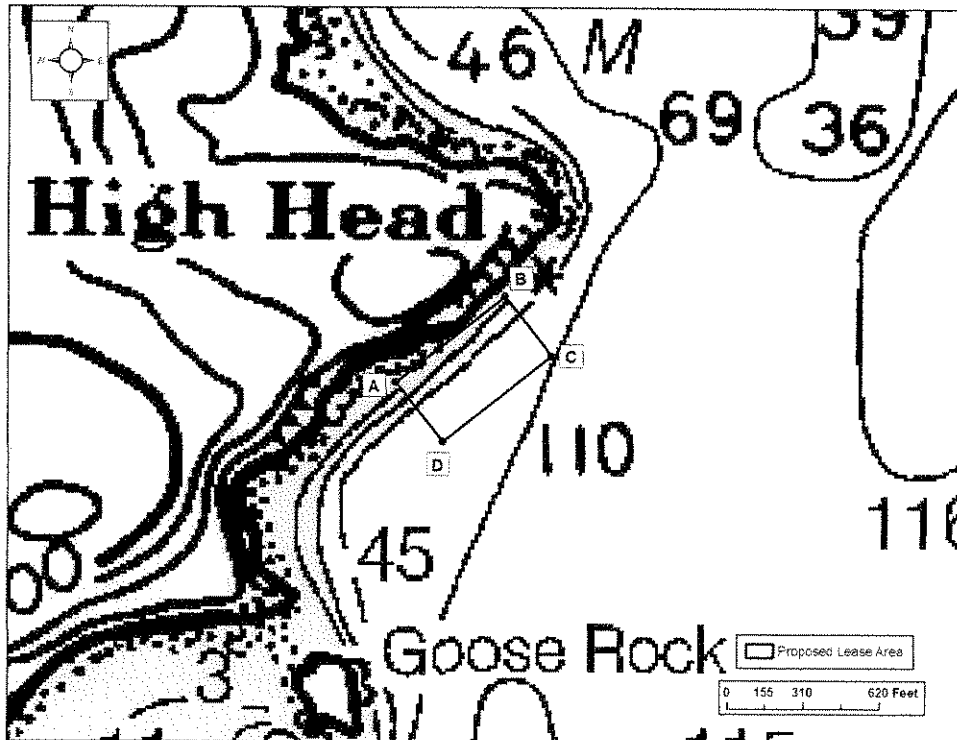


B. Boundary Description

A GPS (DATUM WGS84) was used to determine the coordinates. The proposed lease is rectangular in shape, (563' X 310') oriented in a generally northeast-southwest direction.

- | | | |
|-----------------|------------------------------------|---|
| A: West Corner | 44° 23' 00.02"N
68° 27' 40.85"W | then 563 feet at 52° True to Corner B |
| B: North Corner | 44° 23' 03.45"N
68° 27' 34.74"W | then 310 feet at 142° True to Corner C |
| C: East Corner | 44° 23' 01.04"N
68° 27' 32.12"W | then 563 feet at 232° True to Corner D |
| D: South Corner | 44° 22' 57.61"N
68° 27' 38.22"W | then 310 feet at 322° True back to Corner A |

Total acreage is 4.00 acres.



2. Land Owners

The proposed aquaculture activities will take place in the sub-tidal zone. Hans Huber is the only riparian owner within 1,000 feet. His address is P.O. Box 343, Rumson, NJ. 07760.

Mr. Huber has been notified of my intentions to put an experimental lease site, for the purpose of growing mussels, adjacent to his property. The proposed site will be accessed from South Blue Hill or Pretty Marsh, not from the shore. A certified copy of the tax map is attached at the end of this lease application.

3. Research Program and Operations

- A. The purpose of this experimental lease is to compare the site I have on Long Island with the proposed site with regard to starfish predation, seed set, and growth rates. Mussels will be grown on a raft using rope suspension culture.
- B. Blue mussels (*Mytilus Edulis*, L) will be grown. Seed will be purchased from Tight Rope Mussel Farm along with the possibility of a natural set.
- C. The culture techniques involve seeding and harvesting. Seed mussels are fed through a machine, which wraps them with biodegradable cotton onto a 50 foot long, 1/2 inch diameter rope. On every foot of rope there is a six inch plastic peg to control drop off. The raft will hold approximately 400 ropes. Predator nets will be used around the perimeter of the raft to control duck predation from mid October through early April. The nets will be removed and cleaned off site. Harvesting will occur 12 to 18 months after seeding. When harvesting occurs, individual ropes will be brought aboard the boat using a conveyor belt. The mussels are then taken to Pretty Marsh for processing. The raft will be inspected periodically every month with maintenance occurring as necessary.
- D. This study is expected to take up to three years. If after one cycle the site proves to be productive, then I may apply for a standard lease.
- E. This study is for commercial research and development.

4. Existing Uses

Currently there are no moorings in the area and there is a very limited amount of lobster fishing. With the close proximity to the shore the site poses no threats to navigation, nor impedes ingress or egress to the riparian owner. The area may be used occasionally by kayakers or small boats during the summer months.

5. Exclusive Use

The only requirements are that nobody disturbs the mussels as they grow on the lines and that people don't discharge pollutants in the water near the raft. Commercial and recreational fishing is allowed around the raft, but not from the raft.

6. Description of Proposed Lease Site

A. Environmental Characterization

In early March a dive was made on the proposed site to determine the bottom type flora and fauna, as well as the abundance of animal life.

1. The bottom characteristics from the low tide mark to 45 feet is a sandy, gravel mix with some ledge and large rocks. From 45 feet to 60 feet where the bottom flattens out it is all mud.
2. The deepest area of the lease site is 60 feet at low tide and approximately 70 feet at high tide.
3. The topography is steep from the shore line to a depth of 60 feet where the bottom flattens out.
4. On the steep, gravelly bank to a depth of approximately 20 feet there is a small amount of kelp and brown algae. The remainder of the bank is covered with brown algae. Fifteen sub legal and two harvestable scallops were seen on the gravelly slope. One crab was also observed. Three star fish were seen on the mud.
5. The current runs parallel to shore and changes direction with the tide. The speed is between one and two miles per hour.
6. The shoreline is generally ledgy and steep. The upland is densely wooded and very steep.
7. There is no eel grass in the area.

B. Environmental Impact

Mussels are filter feeders so no feed will be added. Mussel feces will be well dispersed by the tide. Sea urchin seed may settle on the ropes, and some kelp may grow near the surface, attracting fish. When predator nets are used, the mesh is small enough to keep from entangling seals and sea birds, but heavy enough to keep from entangling fish. Mussels falling from the raft will provide feed for crabs, lobsters, and starfish. The structure itself may act as an artificial reef. The shellfish growing area classification is conditionally open. Water quality depends on the operation of the Ellsworth Waste Water Treatment Plant.

7. Structures

The structure to be used is a 40' x 40' Maine Mussel Raft. The raft consists of three sets of pontoons which support four I beams. The I beams are then span by 2' x 3' hemlock timbers that the grow out lines will be suspended from. The raft will be anchored by two 1,100 pound plow anchors off each end. During the winter months predator nets will be used on all four sides to keep the Eider Ducks from eating the mussels. The grow out lines will be approximately 10' off the sea floor at low tide and 20' at high tide.

8. **Discharge**

Not applicable

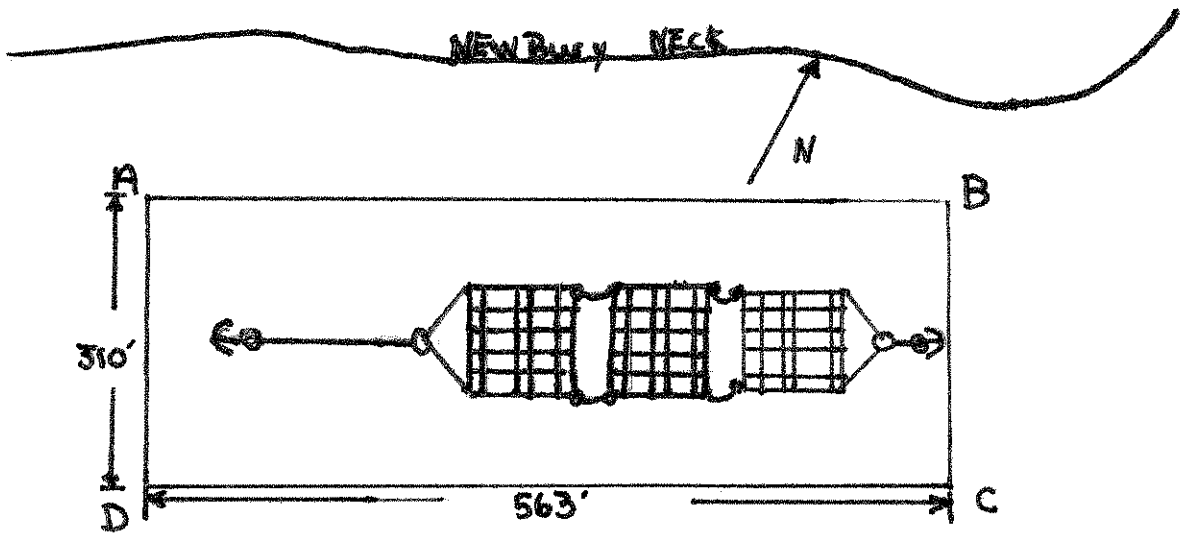
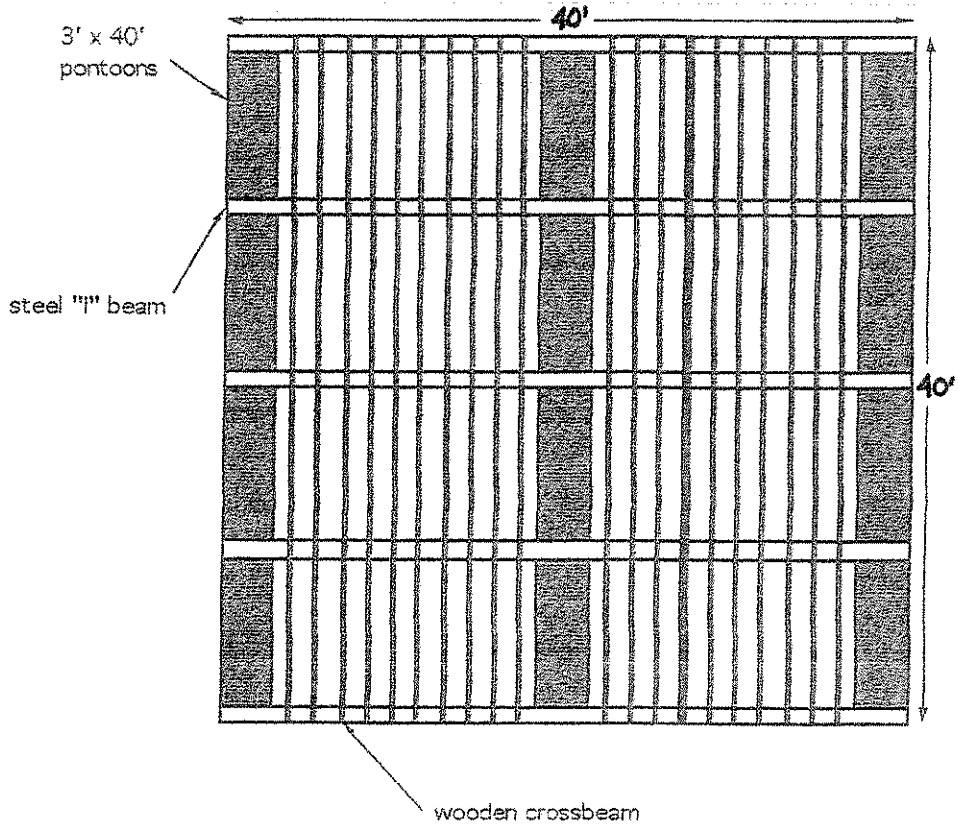
9. **Marking**

The need to mark the outside edges of the lease with Sea Farm buoys isn't necessary due to the close proximity to shore and because there is not any restrictions for use of the unoccupied portion of the lease. The riparian owner is concerned about visual impact of the lease and the goal is to make things as inconspicuous as possible. If the department of Marine Resources Coast Guard and Army Corps of Engineers feel that the markings are necessary then the requirements will be fulfilled.

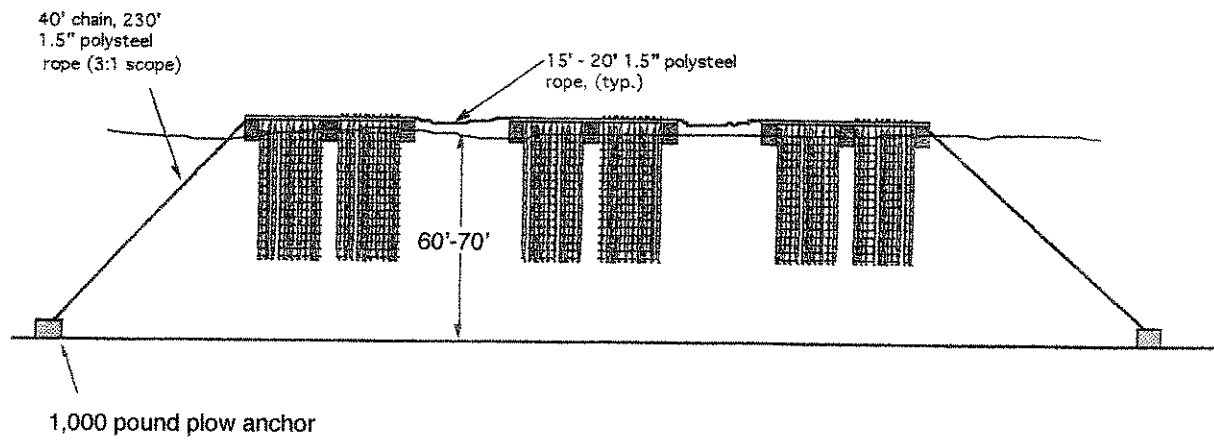
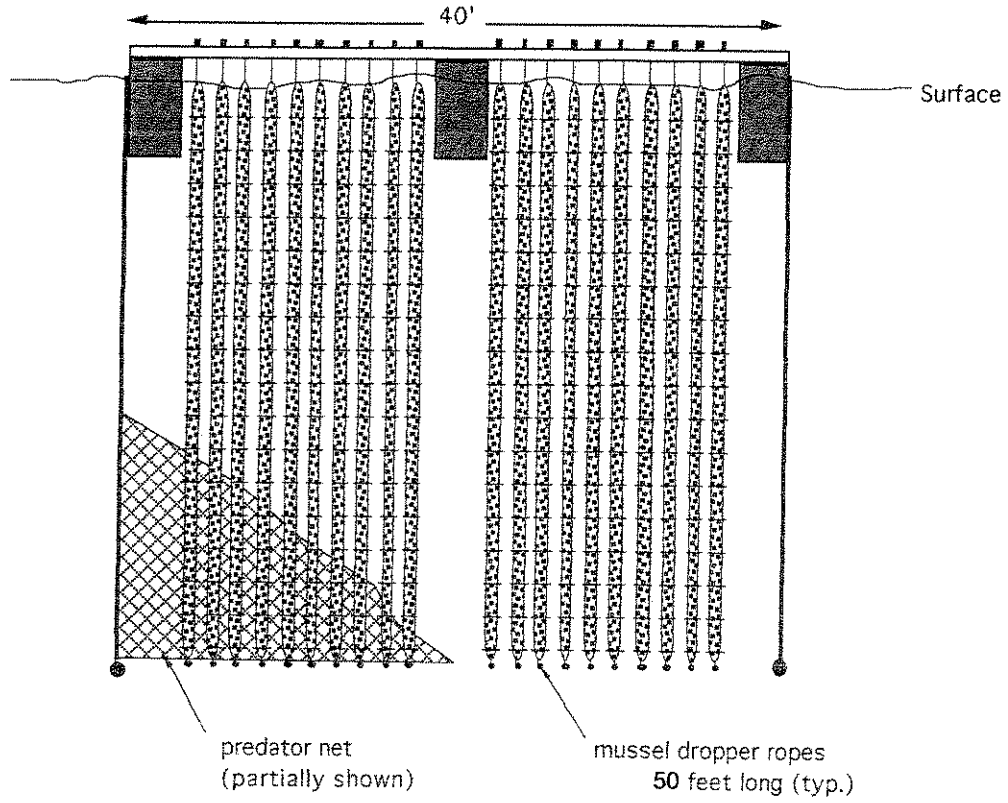
10. **Escrow Account or Performance Bond and Rental Fee**

A performance bond for \$5,000.00 will be acquired. The rental fee of \$100.00 per acre will be paid annually.

A. Plan View



B. Cross Sectional View



- RIPARIAN OWNERS LIST -

THIS LIST MUST BE
CERTIFIED

On this list, please show the current owners' names and mailing addresses for all shorefront parcels within 1,000 ft. of the proposed lease site. Ask the Town Clerk to complete the certification form below. If the parcels are within more than one municipality, provide a separate, certified, riparian list for each municipality.

TOWN OF: Surry, Maine

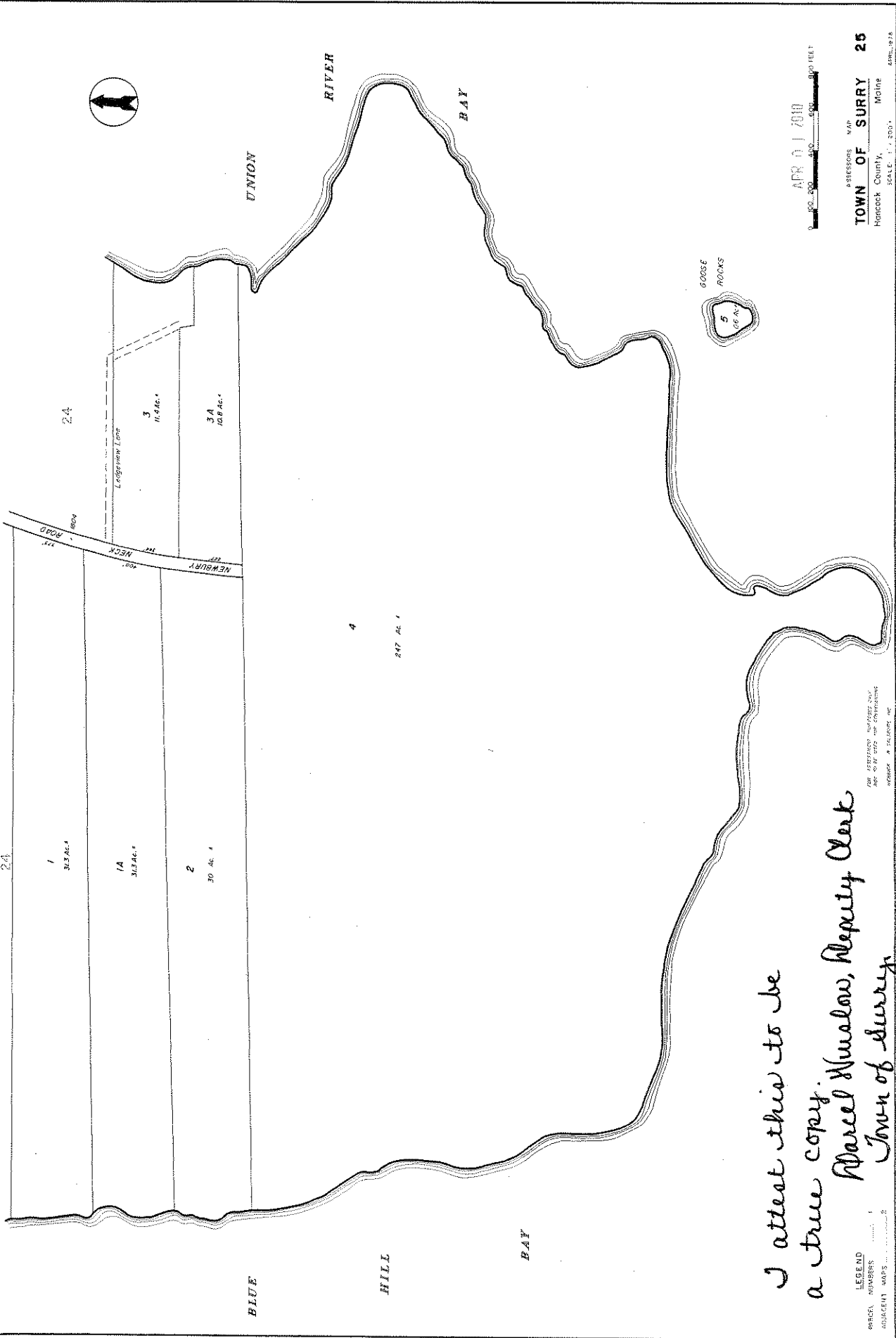
<u>MAP #</u>	<u>LOT #</u>	<u>Landowner name(s) and address(es)</u>
<u>25</u>	<u>4</u>	<u>Hans A. Huber</u> <u>PO Box 343</u> <u>Rumson, NJ 07760</u>

CERTIFICATION

I, Darcel Winslow, Town Clerk of Surry, ME, certify

that the names and addresses of the property owners listed above are those listed by this municipality and are current as of this date.

SIGNED: Darcel Winslow DATE: 4-13-11 SEAL:



I attest this to be
 a true copy.
 Marcel Huslow, Deputy Clerk
 Town of Surry

LEGEND
 PARCEL NUMBERS
 ADJACENT MAPS

FOR ASSESSOR PURPOSES ONLY
 NOT TO BE USED FOR CONVEYANCE
 PREPARED BY: SURRY, ME

ASSESSORS MAP
TOWN OF SURRY 25
 Hancock County, Maine
 SCALE: 1" = 200'