STATE OF ALASKA DEPARTMENT OF NATURAL RESOURCES
DIVISION OF MINING, LAND AND WATER
SOUTHCENTRAL REGIONAL LAND OFFICE

RENEWAL DECISION

ADL 106835 Meta Mesdag
dba Salty Lady Seafoods Co.
Aquatic Farm Lease Renewal
AS 38.05.070(e), AS 38.05.083

Proposed Action:

The Department of Natural Resources (DNR), Division of Mining, Land and Water (DMLW), Southcentral Regional Land Office (SCRO) has received a request from Meta Mesdag dba Salty Lady Seafoods Co. (SLSC) to renew a current lease for 1 acre of state-owned tide and submerged lands, more or less, for 20 years for the purpose of commercial cultivation and harvest of Pacific oysters (*Magallana gigas*) and Kumamoto oysters (*Crassostrea sikamea*) located within Bridget Cove, near Mab Island, approximately 23 miles northwest of Juneau, Alaska. The location of the project area is further described as being within SE1/4 of Section 23, NW1/4 of Section 25, and NE1/4 of Section 26, Township 37 South, Range 63 East, Copper River Meridian, Alaska.

History:

On January 1, 2003, DNR issued the original lease for ADL 106835 to Thomas Manning, which had an expiration date of December 31, 2013. A Land Use Permit was issued on December 27, 2013, to allot more time for the lease reissuance application to be adjudicated. A 10-year reissuance for the lease was issued on March 16, 2016. The lease was assigned from Thomas Manning to Meta Mesdag on April 10, 2019. A renewal application was received from SLSC on March 30, 2023. After review by SCRO and the Alaska Department of Fish & Game, the application was found to be incomplete and a request for additional information was sent on May 16, 2023. On November 8, 2023, the lease was extended with an expiration date of December 31, 2025, to allow for additional time to adjudicate the renewal application. The renewal application was found to be complete on November 26, 2024. There have not been amendments or compliance issues since the lease was assigned in 2019. The current lessee has made all the annual fee payments.

Existing Infrastructure:

Although six parcels have been authorized for use for multiple species and many types of gear, the lessee currently only has gear and structures on Parcel 6. The lessee has plans to use the other five parcels for oyster cultivation in the near future but would like to complete the renewal process

before submitting an amendment application to alter the gear and parcel locations within Bridget Cove.

Currently, Parcel 6 contains subtidal floating and suspended culture grow-out gear for oyster cultivation. The floating culture system includes floating plastic mesh grow-out bags (6-millimeter, 9-millimeter, 14-millimeter, and 23-millimeter mesh) with two plastic torpedo floats attached on one side with zip ties and tuna leader at each end tying stainless steel halibut snaps for clipping to longline arrays. The floating bag culture system arrays are comprised of three arrays, each using three 7/16-inch poly longlines run in double arrays held in order with 2-inch by 4-inch wooden spreader bars placed every 15 feet. At peak production, each double array can hold up to 300 floating bags, with 900 bags total on the three floating arrays. The anchoring system for each of the floating longline arrays is made up of two 700-pound steel blocks, set 200 feet apart, each with 25 feet of 7/16-inch proof chain shackled to a 24-inch mooring buoy. The mooring buoy is attached via a shackle running to a steel thimble attached to a 7/16-inch poly bridle at each end of each double array.

The suspended culture system consists of four 14-foot by 22-foot grow out rafts attached to two 24-foot by 24-foot work rafts, and two 10-foot by 25-foot gear storage/drying docks. There are four to ten stacked Aqua Pacific wire mesh trays (5 inch by 2 feet by 2 feet), suspended 4 feet to 6 feet below the surface. Each grow out raft can hold up to 24 stacks of trays.

The support facility mooring system has mooring buoys on each end and is made up of two Danforth anchors. The northern anchor is 2,000 pounds, and the southern anchor is 1,500 pounds. The anchors are set 200 feet apart with two 5,000-pound concrete blocks set 25 feet from the Danforth anchors with 20 feet of 1-inch proof link ground chain. Danforth anchors are attached with 1-inch proof link chain to a large mooring buoy at the surface with farm info written it. A floating cruise ship mooring line runs between the large mooring buoys providing a line to attach work rafts, grow out rafts, and gear docks.

Lease Renewal Authority:

In 2003 the original lease had been adjudicated pursuant to AS 38.05.035(b)(1) Delegation of the Powers and Duties of the Director; AS 38.05.035(e) Written Findings; AS 38.05.070(a) Generally; AS 38.05.083 Aquatic Farm and Hatchery Site Leases; and AS 38.05.945 Public Notice. Upon lease expiration, subsection AS 38.05.070(e) allows the Director to renew a lease previously issued under section AS 38.05.083 if the lease is in good standing and the lease renewal is determined to be in the best interest of the State.

Lease Renewal Qualifications:

In order to qualify for a renewal, a lessee must be in "good standing". Good standing refers to the fact that the lessee's accounts are current, that there are no outstanding compliance issues, and that the lessee maintains a healthy business relationship with the lessor. A review of the case file has shown that the lessee is in good standing.

Renewing the lease under AS 38.05.070(e) will allow the lessee and the lessor to reenter into a lease contract with minimal delays or disruptions. This lease renewal is in the best interest of the State as lease will continue to create a direct economic benefit to the State, indirect economic benefit to the State, and encouragement of the development of the State's resources. The renewal is consistent with the State's Constitution as the lease provides for the utilization, development, or conservation of the natural resources belonging to the State for the maximum benefit of its people.

Lease Renewal Discussion:

Annual reports have been submitted for the duration of the authorized lease. All annual fees have been paid and the lease is considered to be in good standing with the department. ADL 106835 has met the Commercial Use Requirements (CUR) per 11 AAC 63.030(b) since the lease was assigned to SLSC on April 10, 2019.

Administrative Record:

The administrative record for the proposed action consists of the Constitution of the State of Alaska, the Alaska Land Act as amended, applicable statutes and regulations reference herein, the 1993 Juneau State Land Plan, and the casefile for the application serialized by DNR as ADL 106835.

Legal Description:

The state land where this leasehold is located is described as follows:

- **Site reference name:** Bridget Cove
- **Legal description:** SE1/4 of Section 23, NW1/4 of Section 25, and NE1/4 of Section 26, Township 37 South, Range 63 East, Copper River Meridian
- **Geographical location:** Within Bridget Cove, near Mab Island, approximately 23 miles northwest of Juneau, Alaska
- **Approximate Lat/Longs:**

Parcel 1: Intertidal growing area, 100 feet by 200 feet, 0.46 acres, more or less

NE Corner	58° 38.188' N	134° 56.981' W
SE Corner	58° 38.175' N	134° 56.999' W

SW Corner	58° 38.191’ N	134° 57.053’ W
NW Corner	58° 38.204’ N	134° 57.035’ W

Parcel 2: Intertidal growing area, 26 feet by 50 feet, 0.03 acres, more or less

NE Corner	58° 38.189’ N	134° 57.046’ W
SE Corner	58° 38.182’ N	134° 57.054’ W
SW Corner	58° 38.185’ N	134° 57.062’ W
NW Corner	58° 38.191’ N	134° 57.053’ W

Parcel 3: Nursery facility, 12 feet by 24 feet, 0.01 acres, more or less

NE Corner	58° 38.290’ N	134° 57.184’ W
SE Corner	58° 38.286’ N	134° 57.191’ W
SW Corner	58° 38.291’ N	134° 57.202’ W
NW Corner	58° 38.295’ N	134° 57.196’ W

Parcel 4: Hardening beach, 32 feet by 50 feet, 0.04 acres, more or less

NE Corner	58° 38.299’ N	134° 57.182’ W
SE Corner	58° 38.297’ N	134° 57.184’ W
SW Corner	58° 38.299’ N	134° 57.191’ W
NW Corner	58° 38.301’ N	134° 57.188’ W

Parcel 5: Vessel moorage

Mooring Point	58° 38.465’ N	134° 57.300’ W

Parcel 6: Suspended grow-out area, 100 feet by 200 feet, 0.46 acres, more or less

NE Corner	58° 38.120’ N	134° 57.207’ W
SE Corner	58° 38.088’ N	134° 57.210’ W
SW Corner	58° 38.088’ N	134° 57.243’ W
NW Corner	58° 38.120’ N	134° 57.242’ W

Title:

The DNR Title Report #7656, dated March 26, 2015, issued from DNR’s Realty Services states that the State of Alaska holds title to the subject tidelands under the Equal Footing Doctrine, and the Tide and Submerged Lands Act of 1953. An updated DNR Title Report (RPT-23800) was requested on December 3, 2024, but was not available at the time of issuance of this Renewal Decision. SCRO reserves the right to modify the lease based upon information contained within the updated Title Report.

Planning and Classification:
The project area is subject to the Juneau State Land Plan (1993), Region 1: Echo Cove/Eagle River, Unit 1b: Bridget Cove, Subunits: 1b4, 1b6, 1b7, and 1b8. The designations for this site are Habitat (Ha), Recreation-Dispersed (Rd), and Harvest (Hv) which convert to the classifications of Wildlife Habitat Land and Public Recreation Land. In accordance with the area plan, aquatic farming is an allowable use for this site.

Access:
Access to the aquatic farm is by boat from Yankee Cove, 3 miles south of Bridget Cove.

Access To and Along Navigable and Public Waters:
AS 38.05.127 and 11 AAC 51.045 require that before leasing land, we determine if a body of water is navigable and if it is, that we provide for easements or reservations as necessary to ensure free access to and along the waterbody. The waters of Bridget Cove are tidally influenced and thus navigable. However, the lease is entirely within these waters and located further than 50 feet from Mean High Water, thus a .127 easement is not necessary.

Public Trust Doctrine:
Pursuant to AS 38.05.126 all authorizations for this site will be subject to the principles of the Public Trust Doctrine; specifically, the right of the public to use navigable waterways and the land beneath them for: navigation, commerce, fishing, hunting, protection of areas for ecological studies, and other purposes. These rights must be protected to the maximum extent practicable while allowing for the development of this project. As such, SCRO is reserving the right to grant other authorizations to the subject area consistent with the Public Trust Doctrine.

Term:
Pursuant to AS 38.05.070(e) and AS 38.05.083(n), an aquatic farmsite lease may be renewed for a term of up to 20 years. As such, this renewal lease will be issued for a 20-year term. Unless an appeal is received, the lease term will begin upon the expiration of the original lease.

Compensation and Appraisal:
DMLW has approved an administrative lease fee schedule for aquatic farmsites that meet the conditions listed within the schedule. The most current lease fee schedule will be used to establish the fair market rental each lessee must pay. Fees are subject to adjustment per AS 38.05.083(c). The current annual rate for a 1-acre aquatic farm lease is a base fee of $450.00 for the first acre or portion thereof, and $125.00 for each additional acre. In accordance with the Aquatic Farmsite Fee Schedule, Report No. 2522-16, a breakdown of the lease fee will be as follows:

1 acre (1 acre at $450.00) = **$450.00 per year**

If the applicant does not agree with the fee schedule amount of $450.00, a fair market value determination can be obtained by the applicant. Fair market value is determined by obtaining a DNR approved appraisal of the lease site. If an appraisal is conducted to determine fair market value of the lease site, the applicant will be required to pay the appraised amount and the $450.00 annual fee will no longer be an option. The appraisal cost will be borne by the applicant. The parcel may need to have an approved Alaska Tidelands Survey to accomplish the appraisal. If a survey is required, the cost will be incurred by the applicant.

Bonding:

In accordance with the terms of the original lease, the existing performance bond of $2,500.00 will be sufficient to satisfy AS 38.05.083(e) and 11 AAC 63.080. This bond will remain in place for the life of the proposed lease. The bond amount is based upon the level of development, amounts of hazardous material/substances on site, and the perceived liability to the State. This bond will be used to ensure the applicant's compliance with the terms and conditions of the lease issued for their project. This bond amount will be subject to periodic adjustments and may be adjusted upon approval of any amendments, assignments, reappraisals, changes in the DP, changes in the activities conducted, or changes in the performance of operations conducted on the authorized premises, and as a result of any violations to one or more of the authorizations associated with this project.

Reclamation Bond:

SCRO is reserving the right to require a reclamation bond due to noncompliance issues during the term of the lease or near the end of the life of the project.

Insurance:

In accordance with the terms of the original lease, SLSC will be required to submit proof of liability insurance to SCRO, with the State of Alaska listed as a "NAMED" insured party. SLSC will be responsible for maintaining such insurance throughout the term of the renewed lease.

Signature page follows

Recommendation:

DMLW has completed a review of the information provided by the applicant, examined the relevant land management documents, and has found that this project is consistent with all applicable statutes and regulations. This decision considers the applicant's history and experience with aquatic farming, their proposed Development Plan, the existing uses in the area, and the overall benefit to the state's aquatic farm industry. I recommend the issuance of a 20-year aquatic farm lease renewal to Meta Mesdag dba Salty Lady Seafoods Co. Failure of the lessee to comply with all stipulated terms of the lease, including the CUR, will constitute a violation of the lease terms and steps may be taken to terminate the lease authorization.

1/17/2025

Jen Kopnicky — Date

Natural Resource Specialist

Decision:

The findings presented above have been reviewed and considered. The case file has been found to be complete and the requirements of all applicable statutes and regulations have been satisfied. I find that it is in the best interests of the State to renew this lease as described under the authority of AS 38.05.070(e). Meta Mesdag dba Salty Lady Seafoods Co. will be required to provide insurance, bonding, annual fees, the submission of the Annual Reports, and compliance with the CUR. If the applicant does not submit the required deliverables within 90 days from the date of this decision, DMLW may choose to rescind this decision.

pp 1/17/2025

Joni Sweetman, Regional Manager — Date

Division of Mining, Land & Water

Southcentral Regional Land Office

Attachments

Attachment A – Development Plan

Appeal:

An eligible person affected by this decision, and who provided timely written comment or public hearing testimony to the department, may appeal the decision to the DNR Commissioner per AS 44.37.011 and 11 AAC 02. Any appeal must be received within twenty (20) calendar days after issuance of this decision under 11 AAC 02.040. An eligible person must first appeal a decision to the Commissioner before seeking relief in superior court. The Alaska Court System establishes its own rules for timely appealing final administrative orders and decisions of the department.

Appeals may be mailed or hand-delivered to the DNR Commissioner's Office, 550 W. 7th Avenue, Suite 1400, Anchorage, Alaska, 99501; or faxed to (907)-269-8918; or sent by electronic mail to dnr.appeals@alaska.gov. Appeals must be accompanied by the fee established in 11 AAC 05.160(d)(1)(F), which has been set at $200 under the provisions of 11 AAC 05.160 (a)-(b). A copy of 11 AAC 02 is available on the department's website at https://dnr.alaska.gov/mlw/pdf/DNR-11-AAC-02.pdf.

Attachment A
Development Plan

PROJECT DESCRIPTION

DATE SUBMITTED: 10-29-24

Company Name

Salty Lady Seafood Co

Site Location [*Include water body, distance from nearest community, any landmarks, general region of Alaska, and whether on state tidal and/or submerged lands or private. Provide enough information to understand where it is located.*]

Bridget Cove near the community of Juneau in Southeast Alaska, inside Mab Island, approximately 23 nautical miles NW of Juneau, Alaska, on state owned tide and submerged lands. Located within Township 37S, Range 63E Copper River meridian in sections 23, 25 and 26.

Site Dimensions, Acres for Each Parcel

Parcel 1: Future intertidal growing area for Pacific oysters (100' X 200' .46 acres)
Parcel 2: Future intertidal growing area for oysters (26' x 50' .03 acres)
Parcel 3: Future Nursery Facility for unspecified species (12' x 24', .01 acres)
Parcel 4: Future Hardening Beach for oysters (32' x 50', .04 acres)
Parcel 5: Future Vessel Moorage
Parcel 6: Suspended Culture Grow our area (100' x 200', .46 acres)

Total Acres of All Parcels

1

Species You Intend to Farm [*Include scientific and common species name*]

Pacific Oyster - Magallana gigas
Kumamoto Oysters - Crassostrea sikamea (future species)

Attachment A
Development Plan

Culture Method [*Describe operation activities to be done onsite such as outplanting of seedstock, husbandry techniques to be used (culling, sorting, washing, etc.), maintenance and monitoring activities, management of fouling organisms and incidental species, predator control measures, and schedule of activities such as timing of outplanting seeded lines or adding seedstock into trays, etc. Describe what methods you plan to use based on the definition in* ***5 AAC 41.400(6)****. "Culture" means to use or the use of methods to manipulate the biology and the physical habitat of a desired species to optimize survival, density, growth rates, uniformity of size, and use of the available habitat, and to efficiently produce a product suitable for a commercial market.*]

Oysters: Pacific and Kumamoto

Oysters (9mm-35mm juvenile spat) will be grown on long lines and floating vexer bags for the first season. Bags will be flipped out of the water for 2 days per week to allow oysters and gear to air dry, killing biofouling. Oysters will be divided, graded, and restocked every 4-6 weeks from April-October by hand (for smaller oysters) or with a tumbler/grader.

Once the oysters are 1''-1.5'' in width, they will be moved to wire mesh trays with liners that will be suspended from grow-out rafts 4'-6' below the surface. Market size oysters will be moved from stacks back to bags to harden for 2-3 weeks before harvesting for market.

Gear with excessive fouling will be pressure washed but the majority of the gear that we pull when harvesting or handling will be air dried on the 10' x 25' docks.

Culture Gear and Equipment (Type, Size, Number, Configuration, Material, and Anchoring System) [*If more than one parcel, indicate what parcel specific gear will be located on. If more than one species, indicate gear to be used for each. Gear includes any structure that holds or protects the organism like trays, tiers of lantern nets, Vexar bags, OysterGro system, grow-out submerged longlines, predator netting, longlines, buoys, depth control systems, etc. Include approximate installation schedule, or if and what gear will remain installed year-round etc.*]

Parcel 1: Future Intertidal growing area for oysters - No Gear
Parcel 2: Future intertidal growing area for oysters - No Gear
Parcel 3: Future Nursery Facility for unspecified species - No Gear
Parcel 4: Future Hardening Beach for oysters - No Gear
Parcel 5: Future Vessel Moorage - No Vessel
Parcel 6: Sub-tidal Floating and Suspended Culture Grow our area for Oysters includes:

Floating Culture System

-Floating plastic mesh grow-out bags (6mm, 9mm, 14mm and 23mm mesh) with 2 plastic torpedo floats attached on one side with zip ties and tuna leader at each end tying stainless steel halibut snaps for clipping to long line arrays.
-The floating bag culture system arrays are comprised 3 arrays, each using 3 - 7/16'' poly long lines run in double arrays held in order by 2''x4'' wooden spreader bars every ~15' to prevent tangling and allow for easy repair.
-At peak production, each double array can hold up to 300 floating bags, 900 bags total on the 3 floating arrays.
-The anchoring system for each of the floating longline arrays is made up of 2-700# steel blocks 200' apart, each with 25' of 7/16'' proof chain shackled to a 24'' mooring bouy that is attached via a shackle running to a steel thimble attached to a 7/16'' poly bridle at each end of each double array.

Suspended Culture System

-Aqua pacific wire mesh trays (5''x2'x2') will be stacked 4-10 trays high suspended 4'-6' below the surface. Each grow out raft can hold up to 24 stacks of trays. Each tray holding up to 150-200 market sized oysters.
-4 - 14'x22' grow out rafts will be attached to the 2 work rafts and mooring bouys on each end of the support facility mooring system.
-The support facility mooring system is made up of 2 danforth anchors (the north anchor is 2,000 lbs, the south anchor is 1,500 lbs) 200' apart with 2-5,000 lbs concrete blocks 25' from the Danforth anchors with 20' of 1'' proof link ground chain.
-Danforth anchors are attached with 1'' proof link chain to a large mooring bouy at the surface with farm info written on bouy.
-A floating cruise ship mooring line runs between the large mooring buoys providing a line to attach work rafts, grow out rafts, and gear docks.

Attachment A
Development Plan

Seed Acquisition Plan (Commercially produced and/or wildstock) [*Commercially produced juveniles or seed stock must be obtained from an approved seed source. Do you intend to collect wildstock juveniles or natural set organisms for direct culture on your proposed site? Yes/No. If yes, describe collection methods (applicable for indigenous species: i.e. mussels, scallops, abalone, natural set aquatic plants, etc. This does not refer to broodstock collection on behalf of hatcheries for propagation. If increasing number of acquisitions per year, indicate projected amounts per year. Aquatic plant species can be combined into total feet of line per year.]*

Seed source is Blue Starr, Jamestown, Hump Island, Hawaiian Shellfish and any other certified seed sources that may become available.

Seed volume will vary depending on availability and viability. 200,000-600,000/year varying in size from 9mm-23mm.

Harvest Equipment and Method [*Describe harvest equipment and methods to be used, activities to be done onsite, and schedule of harvest of aquatic farm product. If more than one species, include harvest information for each species or group of species like macroalgae if the harvest information is the same.*]

-Harvest will be done from a skiff, paddle board, or kayak depending on weather and availability of crew. Harvest days are dependent on weather but generally Monday-Wednesday during peak season.
-Bags with market oysters will be dumped onto wire mesh trays, washed, then sorted at our sorting table on our uncovered work raft. Sorted oysters are put into bins with flake ice and taken back to our processing facility in town.

Equipment used for handling and harvesting includes:
-Crane on covered work raft
-Water pump
-Tumbler/grader to sort, wash, and help harden oysters for a deeper cup and increased quality
-Generater to power crane, water pump, tumbler and pressure washer
-26' Skiff with winch to pull stacks suspended from grow out rafts. Skiff is also used for hand pulling bags on floating arrays.
-Small Lund for flipping bags

Support Facilities (Type, Size, Number, Configuration, Material, and Anchoring) [*Support facilities include caretaker facility, storage rafts, work rafts, processing rafts, etc.*]

2- 24'x24' wood work rafts(one covered) to house tumbler, generator, water pump, fuel, safety equipment, shrimp baskets, gear for bag repair, tools, sorting table, and pressure washer.
4-14'x22' wood grow out rafts
2-10'x25' wood docks for air drying gear and gear storage

Each of the support facilities is tied off to the large cruise ship mooring line running from anchor to anchor. The work rafts have cleats at each end and center for tying off to braided lines or spectra lines attaching to grow out rafts, work rafts, and gear docks.

Attachment A
Development Plan

Access to and from Site [*Include nearest community, transportation type used and how many times traversing back and forth*]

-26' skiff moored at Yankee Cove, 3 nautical miles south of Bridget Cove
-Trail access from the road system allows for access to parcel 6 via kayak and paddleboard as well as walk-up access to parcels 1-4

Storage Location of Equipment and Gear When Not in Use [*Include whether on private lands and nearest community*]

Gear is either stored on the 10'x25' dock at parcel 6 or private residence at 16400 Beardsley Way, Juneau 99801

C. PROJECT OPERATION PLAN

1. How will support facilities, culture gear and anchoring systems be maintained?

a. How often, in days per month, do you intend to monitor your site for things such as adequate anchoring, disease, exotic species settlement, fouling, gear drift, snow load, wind damage, vandalism, etc.?

Growing season 16-20 (days/month) **Off months** 1-2 (days/month)

b. How will you keep the gear and shellfish free of fouling organisms (hot-dip, air dry, pressure washing, etc.)?

Air drying and pressure washing

c. How will you manage reduction of competing species over the course of operations (relocate sea stars, grow-out cages, or other possible protection from competing species)?

Competing species such as starfish will be thrown off of gear into the water and gear will be kept off bottom to reduce starfish predation. Mussels and barnacles will be managed by air drying gear and pulling and washing.

d. If you intend to use predator netting, how long will you keep netting over your product?

NA (months)

e. If using predator netting, how will you minimize impacts on non-target species, including seabirds, seals, sealions, walrus and whales?

NA

2. Projected Harvest Rotation Consistent with Life History

a. How often do you intend to harvest your product by species?

2 days per week from May through October, and 1-2 times per month from October through April.

b. Do you plan on utilizing density manipulation by culling or redistribution?

Bags and trays will be washed and restocked every 4-6 weeks to manage stocking density as needed.

Attachment A
Development Plan

Project Location
ADL 106835-Salty Lady Seafood Co
N Bridget Cove, Juneau SE Alaska
11-21-22

Parcel 1: Intertidal Growing are for ~~Geoduck and Oysters~~ ~~Hardening~~ 100'x200' =20,000/43,560=.46 acres

NE Corner	58° 38.188' N	134° 56.981' W
SE Corner	58° 38.175' N	134° 56.999' W
SW Corner	58° 38.191' N	134° 57.053' W
NW Corner	58° 38.204' N	134° 57.035 'W

future site

Parcel 2: Intertidal growing are for ~~Geoduck and Oysters~~ ~~Hardening~~ 26'x50'=1,300/43,560=.03 acres

NE Corner	58° 38.189' N	134° 57.046' W
SE Corner	58° 38.182' N	134° 57.054' W
SW Corner	58° 38.185' N	134° 57.062' W
NW Corner	58° 38.191" N	134° 57.053' W

future site

Parcel 3: Intertidal area for Nursery 12'x24'=288/43,560=.01 acres

NE Corner	58° 38.290' N	134° 57.184' W
SE Corner	58° 38.286' N	134° 57.191' W
SW Corner	58° 38.291' N	134° 57.202' W
NW Corner	58° 38.295" N	134° 57.196' W

future site

Parcel 4: Intertidal are for Nursery 32'x50'=1,600/43,560=.04 acres

NE Corner	58° 38.299' N	134° 57.182' W
SE Corner	58° 38.297' N	134° 57.184' W
SW Corner	58° 38.299' N	134° 57.191' W
NW Corner	58° 38.301' N	134° 57.188' W

future site

Parcel 5: Vessel Moorage

NE Corner	58° 38.465' N	134° 57.300' W

Parcel 6: Suspended Culture System for Oysters, ~~Kelp, Mussels~~ 100'x200'=20,000/43560=.46 acres

NE Corner	58° 38.120' N	134° 57.207' W
SE Corner	58° 38.088' N	134° 57.210' W
SW Corner	58° 38.088' N	134° 57.243' W
NW Corner	58° 38.120' N	134° 57.242' W

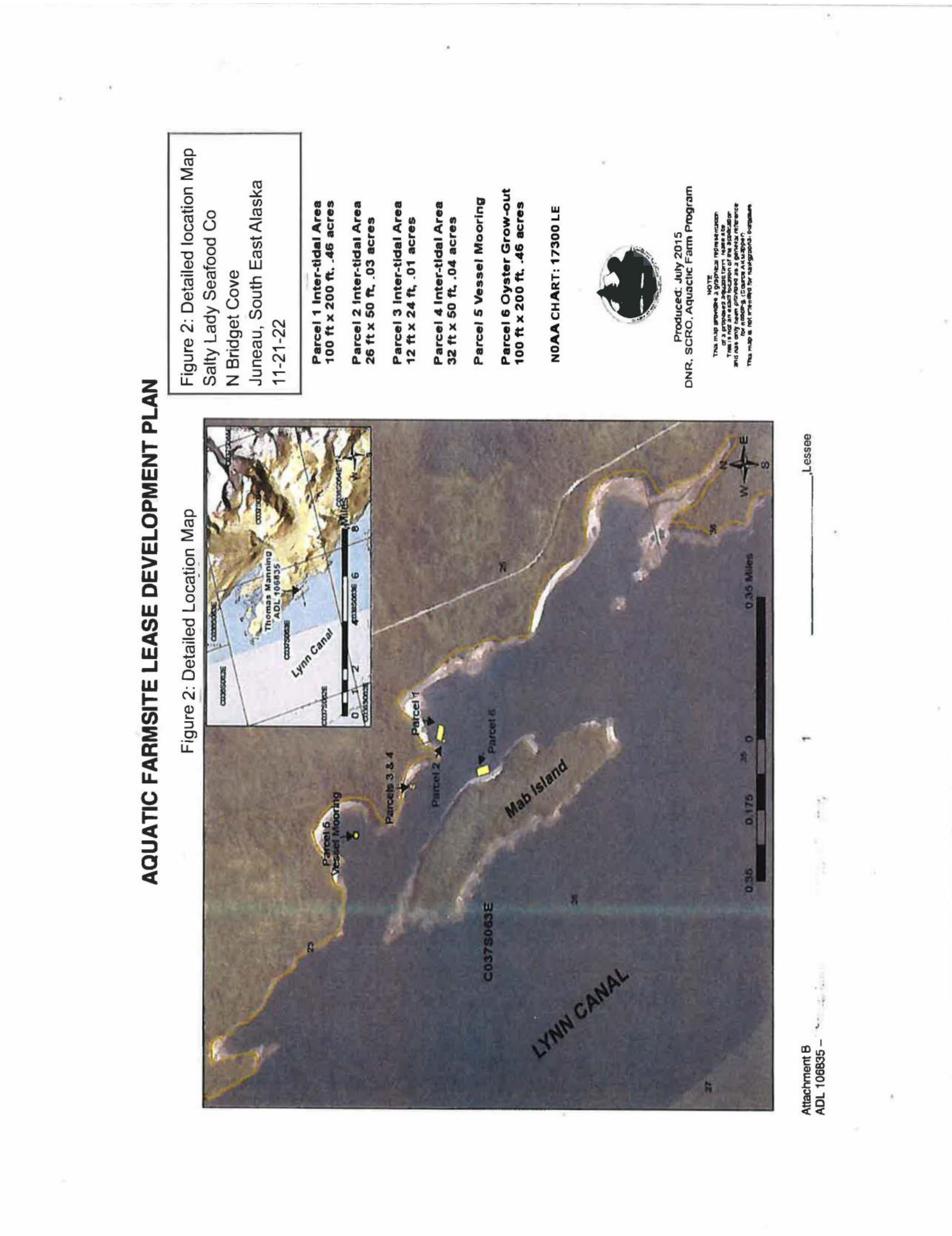
Total Farm Size: .46+.03+.01+.04+.46=1 acre

Figure 1: General Location Map

USGS Quad Juneau C-3

Alaska Dept. of Fish & Game
Aquatic Farm Operation Permit No. DFG-2000-10-AF-SC
ATTACHMENT NO.: 1

Attachment A
Development Plan



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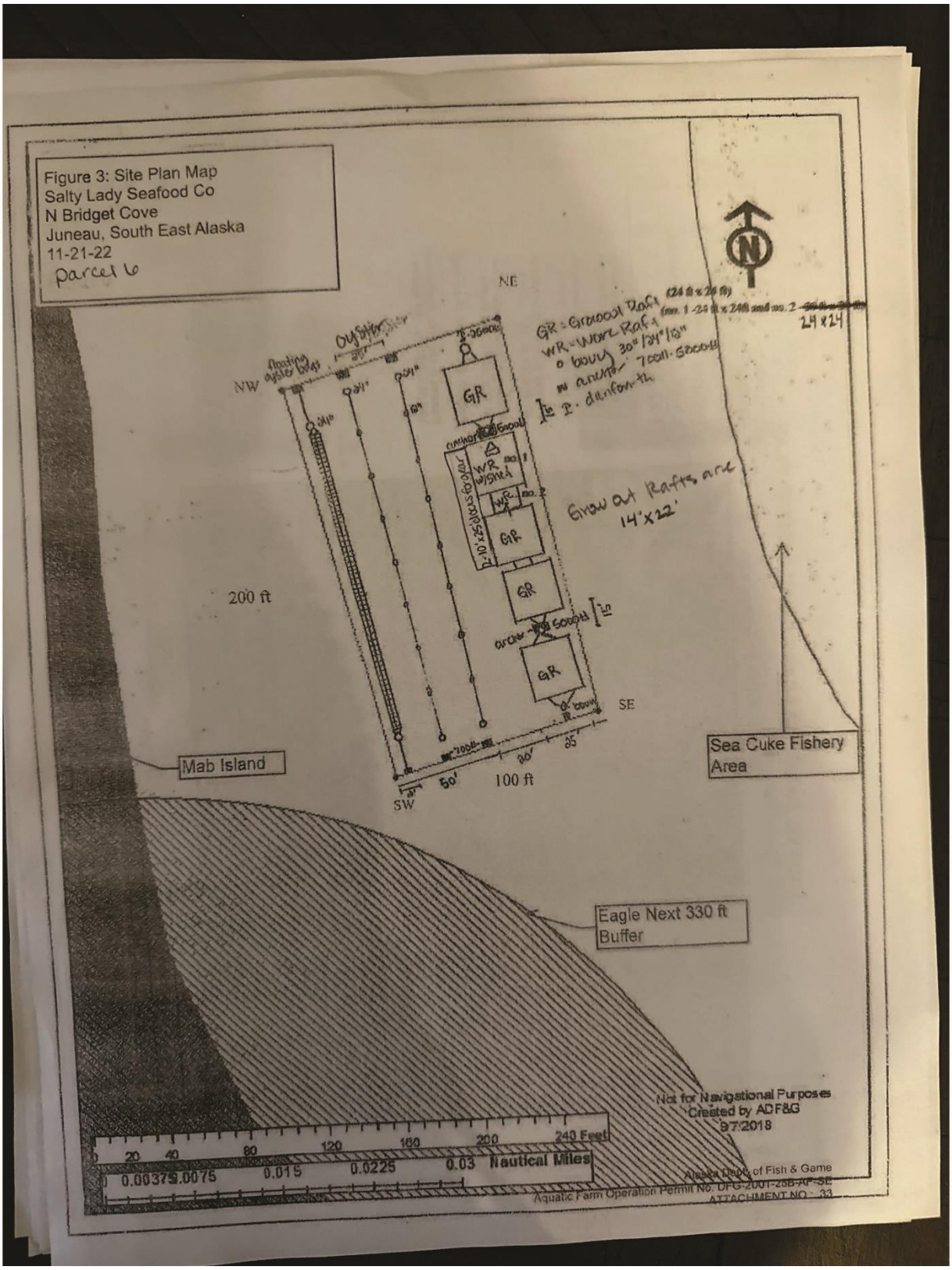
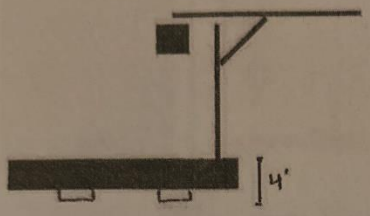


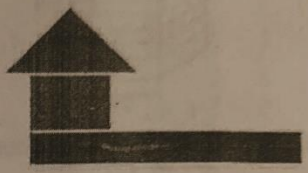
Figure 4 Cross-sectional Diagrams and Drawings of Work Rafts · Parcel 6

4a Cross-Sectional Detail Drawings

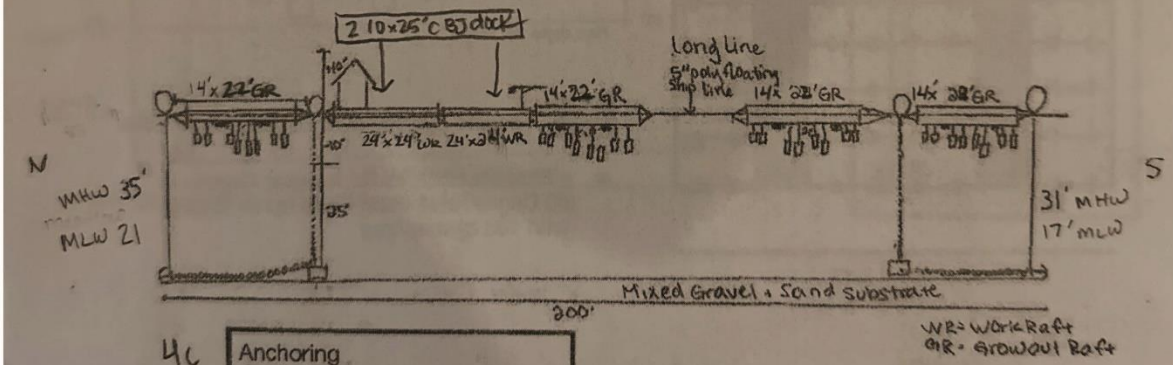
~~20'x20'~~ 24x24' Work Raft with Crane



24'x24' Work Raft with shed



4b Cross Sectional View Showing Work Rafts and Grow out Rafts in Convoy Parcel 6



4c Anchoring
5000# Block with
3/4" Proof Link Chain
2500# Steel Danfourth

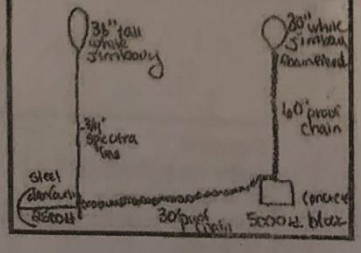
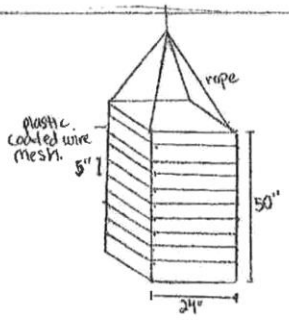


Figure 4:
Salty Lady Seafood Co
N Bridget Cove
Juneau, South East Alaska
11-21-22

Aquatic

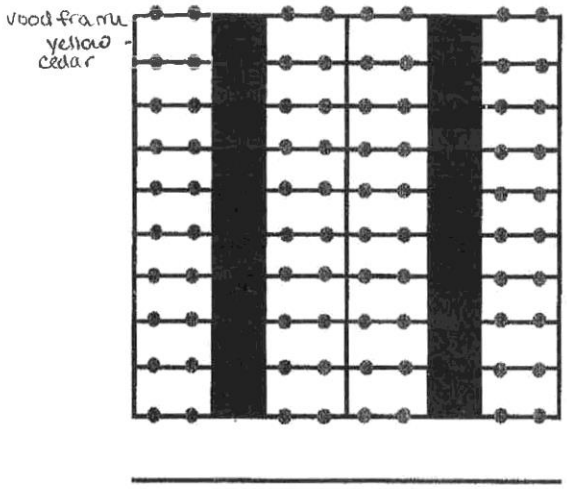
Figure 5. Cross-Sectional Diagrams and Drawings For Grow out Rafts not to scale

Detail Drawing of Hanging Trays for use in Oyster Grow out Rafts

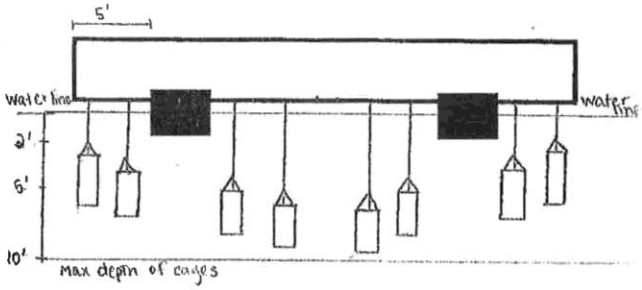


Detail Drawing of 14'x22' Grow out Rafts

Overhead



Cross-Sectional of Grow out Raft



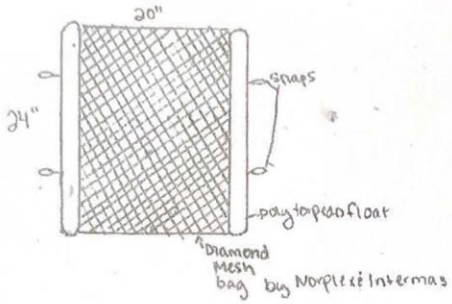
=Floats 3'x2'x8' (6 Total) Foam filled LDPE

● = Suspension point for hanging Cages (80 Cages Total) Each holds up to 10 trays with 100 oysters/tray

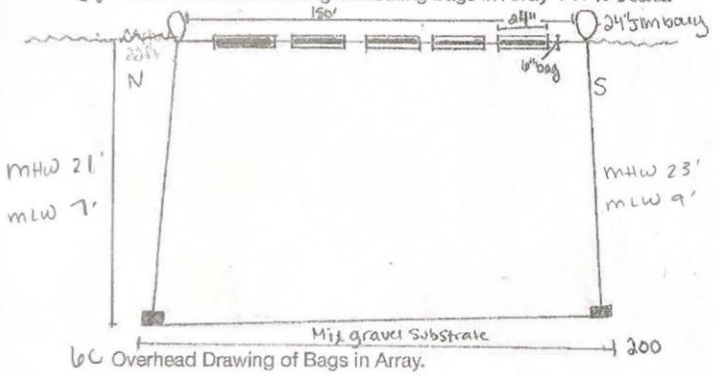
Figure 5:
Salty Lady Seafood Co
N Bridget Cove
Juneau, South East Alaska
11-21-22

Figure 6. Cross sectional Diagrams and Drawings of Long Line with Floating Bags parcel e

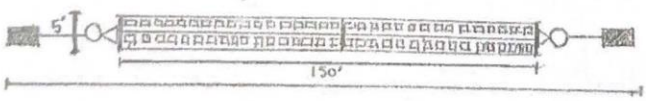
6a Detail Drawing of Grow out Bags with floats



6b Cross Sectional Drawing Of floating bags in Array not to scale



6c Overhead Drawing of Bags in Array.



- Vexar bags
- bouy
- 1 spreader bar (wood 2x3" ~~PVC pipe~~)
- steel anchor

6d Anchoring

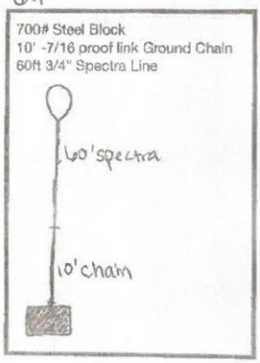


Figure 6:
Salty Lady Seafood Co
N Bridget Cove
Juneau, South East Alaska
11-21-22

Attachment A
Development Plan

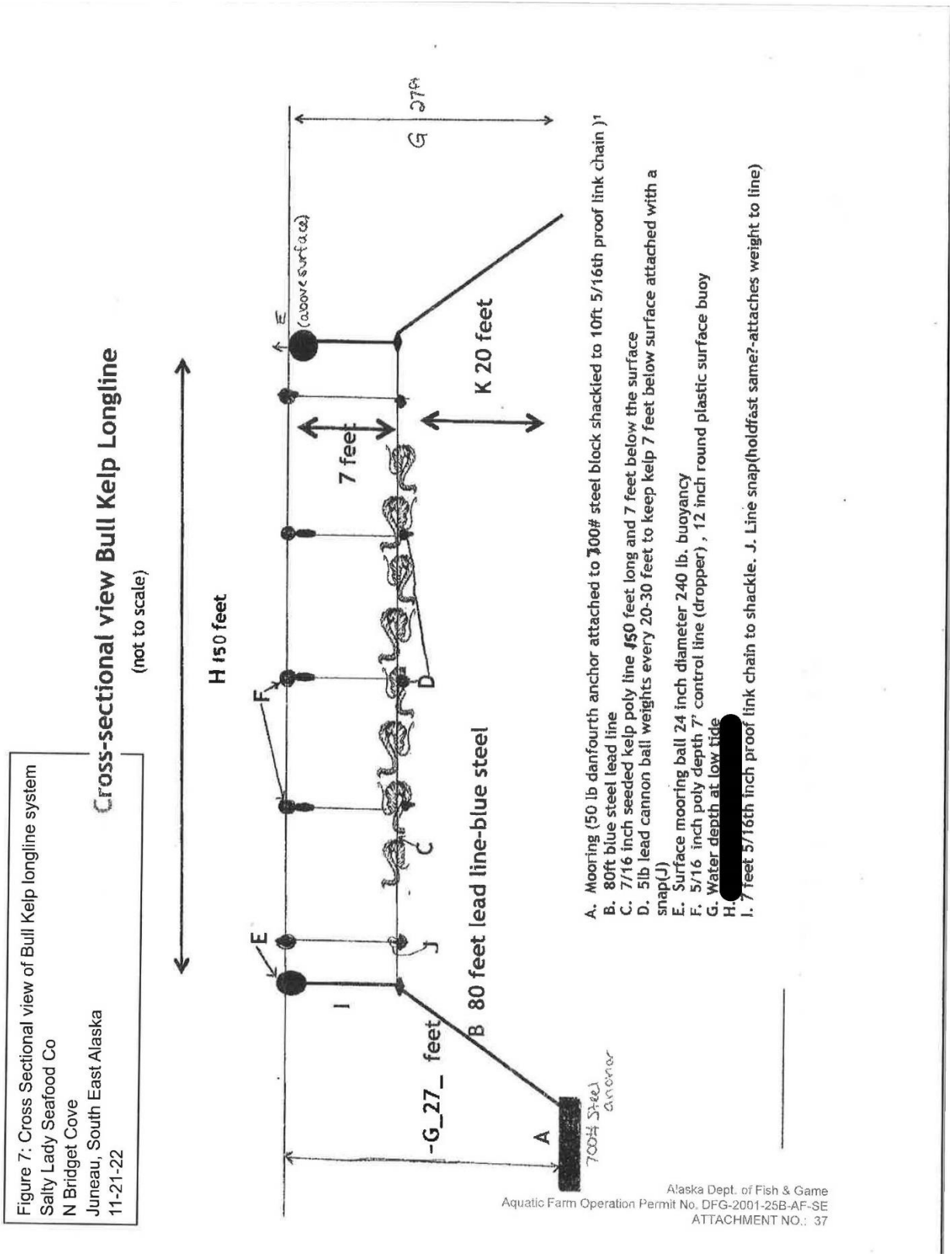


Figure 8: Overhead view of Kelp Longline system
Salty Lady Seafood Co
N Bridget Cove
Juneau, South East Alaska
11-21-22

Overhead View of Kelp Longline System

(not to scale)

A 50# Danfourth-10ft 5/16th chain- shackled to 700# steel block

B 24" Mooring buoy 240lb holding capacity

C Kelp longline with surface buoys every 20-30ft

D 150 foot kelp longline section

Alaska Dept. of Fish & Game
Aquatic Farm Operation Permit No. DFG-2001-25B-AF-SE
ATTACHMENT NO.: 38

Figure 9: Details on Line Droppers
Salty Lady Seafood Co
N Bridget Cove
Juneau, South East Alaska
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Details on kelp depth control line dropper

A. **12 inch round plastic surface buoy**
B. 5/16th inch lead line tied to bouy(A) with 5lb lead weight at the bottom(C) snapped to kelp long line to keep kelp line sunk to 7 foot depth
C. 5 lb. lead weight bowline knotted to Poly Line (D)5/16 poly 7 foot length

Alaska Dept. of Fish & Game
Aquatic Farm Operation Permit No. DFG-2001-25B-AF-SE
ATTACHMENT NO.: 39

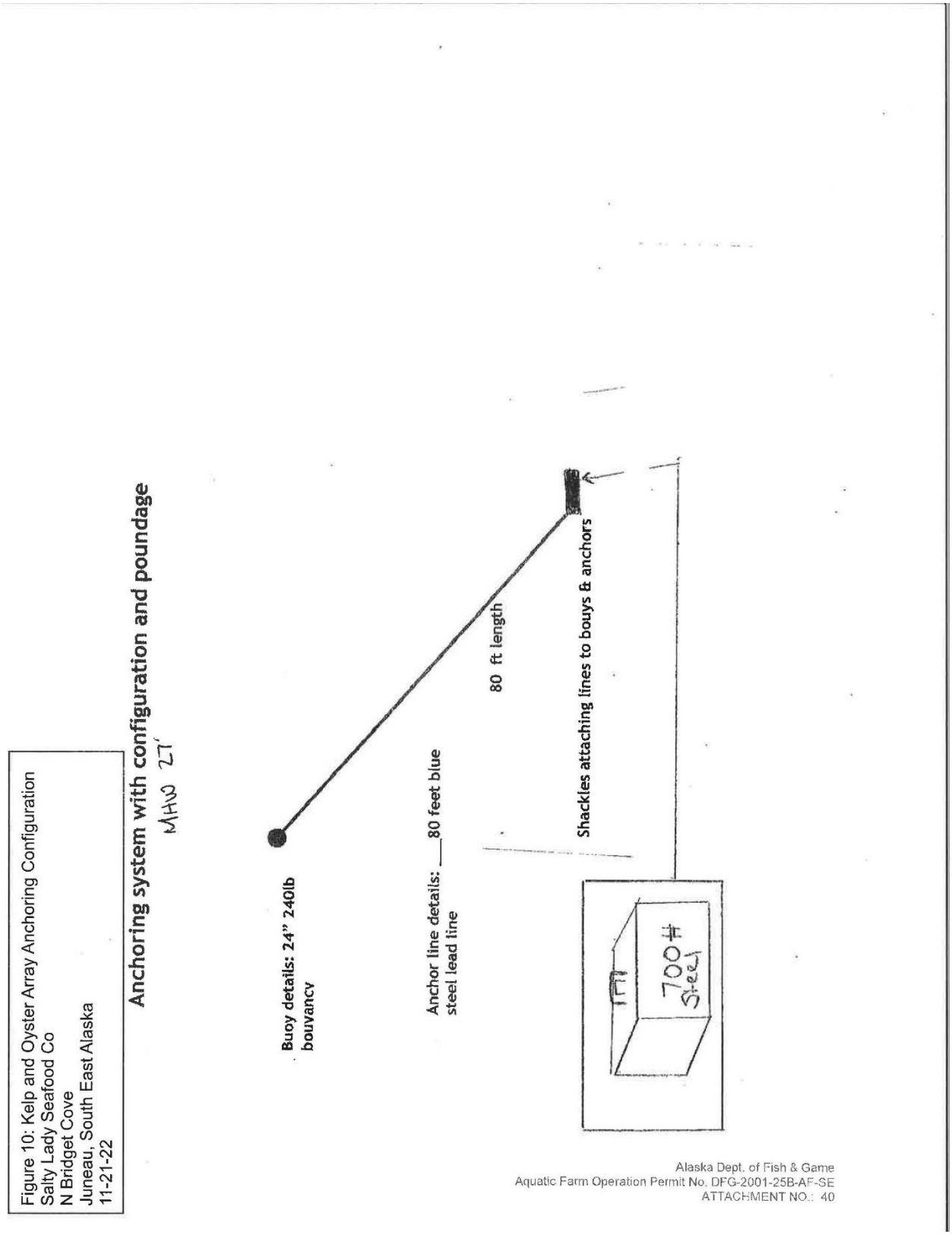

Figure 10: Kelp and Oyster Array Anchoring Configuration
Salty Lady Seafood Co
N Bridget Cove
Juneau, South East Alaska
11-21-22