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# Aquaculture Renewal Application

Licence/Lease No: 0846

**Licence/lease holder:**

Applicant: Blaine Bond Contact Person: Blaine Bond

Nova Scotia Registry of Joint Stocks Number: [redacted]

Revenue Canada Business Number: [redacted]

Telephone No. (Work): [redacted] (Home): _____ (Cell): _____

Fax No.: _____ E-mail: [redacted]

Mailing Address: 86 Look Off Dr, East Chester, NS.

_____ Postal Code: B0J1J0

Civic Address: Same as Above

_____ Postal Code: _____

## Application Materials

A complete application includes the following:

- Renewal fee (payable to Minister of Finance) according to Section 77 of the Aquaculture Licence and Lease Regulations for Nova Scotia made under Section 64, Chapter 25 of the Acts of 1996, *the Fisheries and Coastal Resources Act*
- Application Form
- Development Plan according to application
- Copy of up-to-date Shareholder's Register which sets out the shareholdings of the company (if applicable)

## Public Notice and Disclosure

As part of the process for deciding on an aquaculture application, the Nova Scotia Department of Fisheries and Aquaculture ("Fisheries and Aquaculture") will disclose application information to other government bodies, including, if applicable, the Nova Scotia Aquaculture Review Board for use at an adjudicative hearing relating to the application.

**Submit completed applications to:** **Nova Scotia Department of Fisheries and Aquaculture, Aquaculture Division**
**1575 Lake Road, Shelburne, NS B0T 1W0**
**E-mail: aquaculture@novascotia.ca**

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In accordance with departmental policy, which seeks to promote public involvement in the process for deciding on aquaculture applications, Fisheries and Aquaculture may disclose application information – not including, however, personal or business confidential information – on the departmental website.

## Privacy Statement

The personal and business confidential information collected as part of an aquaculture application will only be used or disclosed by Fisheries and Aquaculture for the purpose of deciding on the application.

All application information collected is subject to the Freedom of Information and Protection of Privacy Act ("FOIPOP") and will only be used or disclosed in accordance with FOIPOP.

By signing and submitting this form, I acknowledge that I have read, understand, and accept the above statements regarding the collection, use, and disclosure of the information provided on this form.

[redacted] Date: Sept 10 2025

Signature of Nova Scotia Department of Fisheries and Aquaculture Designate — Date

[redacted] September 11, 2025

**Submit completed applications to:** ver. 170723-1

**Nova Scotia Department of Fisheries and Aquaculture, Aquaculture Division**
**1575 Lake Road, Shelburne, NS B0T 1W0**
**E-mail: aquaculture@novascotia.ca**

# Long Reef Shellfish Development Plan

## Aquaculture Licence 0846 Application for Renewal

Date: November 17, 2025

Mr. Blaine E. Bond

Email: [redacted]

East Chester, NS B0J1J0

## 2: THE CONTRIBUTION OF THE PROPOSED OPERATION TO THE COMMUNITY AND PROVINCIAL ECONOMIC DEVELOPMENT

### 2.1 Production Plan

The aquaculture method to be used on site #0846 is a suspended method supported by 2,000-pound moorings. On the site the species are European Oyster (Ostrea edulis), American Oyster (Crassostrea Virginica), Blue Mussel (mytilus edulis), and Giant Sea Scallop (placopecten magellanicus).

| **Species** | **Intent to Cultivate (yes/no)** |
|---|---|
| European Oyster | Not Yet |
| American Oyster | Not Yet |
| Blue Mussel | Yes |
| Giant Sea Scallop | Yes |

As stated above I am cultivating Giant Sea scallops and the Giant Sea Scallops will be on the site 0846 for approximately four years.

Giant Sea Scallop Production Plans

| Year | Year Class | Gear Units Total | Layers / Gear Unit | Number of Lines | Gear Units/ Line | Density (pcs/layer) | Inventory on Site |
|---|---|---|---|---|---|---|---|
| 1 | A1 | 125 | 8 | 1.5 | 90 | 100 | 100,000 |
| 2 | A2 | 250 | 8 | 3 | 90 | 50 | 100,000 |
| | B1 | 125 | 8 | 1.5 | 90 | 100 | 100,000 |
| 3 | A3 | 500 | 8 | 6 | 90 | 25 | 100,000 |
| | B2 | 250 | 8 | 3 | 90 | 50 | 100,000 |
| | C1 | 125 | 8 | 1.5 | 90 | 100 | 100,000 |
| 4 | A4 | 0 | 0 | 0 | 0 | 0 | 0 |
| | B3 | 500 | 8 | 6 | 90 | 25 | 100,000 |
| | C2 | 250 | 8 | 3 | 90 | 50 | 100,000 |

*This table is based on the premise that there are no deaths and no giant sea scallops large enough for sale until the fourth year

Space between gear units: 1 metre
Space between lines: 11 metres
Length of lines: 96 metres

In the first year, I will introduce 100,000 giant sea scallop spat, starting at a size of ten millimeters, which will be obtained from the University of Sante Anne in Cape Breton, Isle Madame, NS, specifically from site 0667. I plan to put 100 giant sea scallops into each purl net, arranged in 8 layers resulting in a total of 125 strings during the first year. The strings will be purl nets with the dimensions of 35cm length x 35 cm width with each string containing 8 layers. Using the pre existing lines we would allocate 1.5 lines for giant sea scallop spat. Therefore during the first year on site #0846 there will be 100,000 giant sea scallops spat. In the second year, I plan to downsize the number of second

year juvenile giant sea scallops to 50 per purl net across 8 layers, and if there are no fatalities, there will be 250 strings of second year juvenile giant sea scallops. Using the existing lines, I will designate 3 lines for second year juvenile giant sea scallops. Additionally in the second year I will introduce 100,000 giant sea scallop spat, starting at a size of ten millimeters, which will be obtained from the University of Sante Anne in Cape Breton, Isle Madame, NS, specifically from site 0667. I will be using purl nets with 8 layers maintaining a density of 100 giant sea scallop spat for each layer, along with 125 strings distributed over 3 lines. Thus, in the second year at site #0846 there will be 4.5 lines being used with a total of 200,000 giant sea scallops, 100,000 spat and 100,000 second year juveniles. In the third year, I will reduce the size of the giant sea scallops and classify them into two categories: market-ready giant sea scallops and third year juvenile giant sea scallops. The third year juvenile giant sea scallops will be placed back into the water at a density of 25 third year juvenile giant sea scallops per purl net across 8 layers, while the market ready giant sea scallops will be sold. If there are no market-ready scallops, and no deaths among the giant sea scallops, there will be 500 strings in the water. I have to allocate 6 lines for third year juvenile giant sea scallops. Additionally the spa introduced in the second year I will downsize into 50 per purl net across five layers, and if there are no fatalities, there will be 250 strings of second year juvenile giant sea scallops across three lines. Additionally I will be introducing 100,000 giant sea scallop spat, which will be obtained from the University of Sante Anne in Cape

Breton, Isle Madame, NS, specifically from site 0667. I plan to put 100 giant sea scallops spat into each purl net, arranged in eight layers, resulting in a total of 125 strings across 1.5 lines. Thus in the third year at site #0846 there will be 10 lines being used with a total of 300,000 giant sea scallops, 100,000 spat, 100,000 second year juveniles, and 100,000 third year juveniles. In the fourth year, all of the fourth year giant sea scallops will be market-ready. Additionally I will be downsizing the third year juveniles into market-ready and third year juveniles that need to go back in the water. Thus at a density of 25 third year juveniles per net in eight layers there will be 500 strings across 6 lines totaling 100,000 third year juveniles. Also we will be downsizing the second year juveniles to 50 per net in five layers with 250 strings across 3 lines. Thus I will be purchasing in the fourth year 100,000 giant sea scallop spat with 100 giant sea scallops into each purl net, arranged in eight layers, resulting in a total of 125 strings across 1.5 lines. On the fourth year on site #0846 There will be 10 lines, being used with 300,000 giant sea scallops, 100,000 spat, 100,000 second year juveniles, and 100,000 third year juveniles. This document outlines my production strategy for giant sea scallops. The process involves transferring the giant sea scallop spat from University of Sante Anne in Cape Breton, Isle Madame, NS. Following this the giant sea scallops will stay at site 1157 until they reach market readiness, which typically requires around four years.

Additionally I plan to cultivate Blue Mussels and the Blue Mussels will be on the site 0846 for approximately two years.

# Blue Mussel Production Plans

| Year | Year Class | Gear Unit (Size & Type) | Gear Units Total | Number of Lines | Gear Units/ Line | Density (pcs/sock) | Inventory on Site |
|---|---|---|---|---|---|---|---|
| 1 | A1 | Mussel Mesh 12ft 10 to 20 mm | 90 | 1 | 90 | 700-1,200 | 108,000 |
| 2 | A2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | B1 | Mussel Mesh 12ft 10 to 20 mm | 270 | 3 | 90 | 700-1,200 | 324,000 |

*This table is based on the premise that there are no deaths and the approximate density per sock

Space between gear units:
Space between lines:
Length of lines:

As I am not sure how much blue mussel spat will be collected annually due to the fact that my blue mussel spat is wild collection which relies on natural settlement. I collect the blue mussel spat from site #1244, 0846, 0652. The blue mussel production plan will operate on a two year cycle. In the first year I will be setting 90 strings of blue mussel spat with mussel mesh approximately 12 feet long, with the mesh ranging from 10 mm to 20 mm which all depends on the size of the blue mussel. I will be socking the blue mussel mesh with the blue mussel spat which will be approximately 700 to 1,200 blue mussels, resulting in an estimated 108,000 blue mussels on site 0846. I will also be using the pre-existing lines we would allocate 1 line for blue mussels. In the second year, I will be harvesting the blue mussels that were socked in the last year. The same 90 strings will remain on the line throughout the harvesting year,

yielding an estimate of (0.022lbs x 108,000) 2,376 lbs to (0.040lbs x 108,000) 4,320 lbs of blue mussels. However there are some things that could obstruct the blue mussel growth. The first could be ducks, as the ducks can come in and eat a portion or all of the blue mussels resulting in a loss of blue mussels. Secondly the mussels could be encapsulated by tunicates, which kill them from starvation. For the third reason not all of the mussels move out of the sock so they will suffocate and die. Additionally in the second year I will be introducing 270 strings of blue mussel spat with mussel mesh approximately 12 feet long, with the mesh ranging from 10 mm to 20 mm which all depends on the size of the blue mussel. I will be socking the blue mussel mesh with the blue mussel spat which will be approximately 700 to 1,200 blue mussels, resulting in an estimated 324,000 mussels. I will also be using the pre-existing lines we would allocate 3 lines for blue mussels. As of right now site #0846 has 39 lines and 90 strings per line. As I allocate 26 lines to giant sea scallops and 13 lines for blue mussels with 90 strings per line. The length of the lines will be 96 metres running at full capacity in 2027.

## 2.2 Infrastructure

Currently, I dock my boat on the Tancook Island ferry wharf in Chester. This infrastructure serves as the primary point for the transportation of shellfish spat and final aquaculture products to market. While functional, the use of shared public facilities presents limitations in terms of scheduling flexibility,

efficiency, and long-term sustainability. To support future growth I have acquired a piece of littoral land so that I can establish land-based operations in the future. The land-based infrastructure will consist of a hatchery, equipment storage, wet and dry storage, and shellfish processing. I also plan on constructing a wharf, which will help with transportation of shellfish between land-based facilities and aquaculture leases.

## 2.3 Services and Suppliers

- Seedstock
    - Scallop supplier : University of Sainte Anne Cape Breton, Isle Madame NS site 0667
    - Mussel seed is collected from 1157, 0055, 0842, 1244 and 0652. At present there are no distributors for mussel seed that I can use.
- General supplies
    - I have existing supplies of nets (five layer purl nets, buoys and rope)

## 2.4 Employment

As the owner and primary executive of my business, I have developed a lot of knowledge in aquaculture operations and management through direct experience. My approach has been shaped by years of practical problem solving and strategic decision - making skills. I have a new bookkeeper and administrative assistant and we are working together to help manage tasks more efficiently. I have three seasonal employees who work for me, and one full time employee. They help in marketing, decision-making, and on-site work, so she is

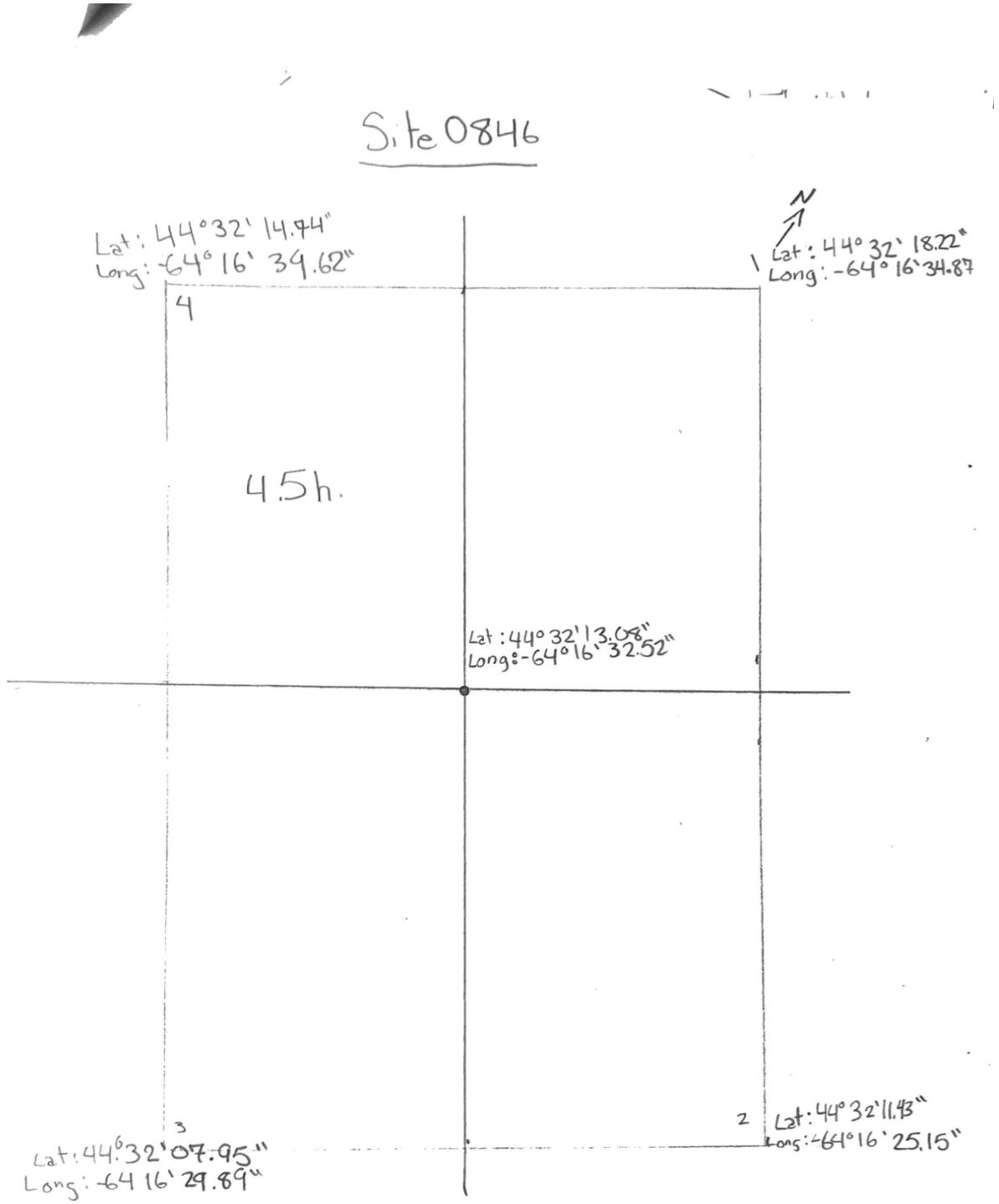
well-versed in the operations of the company. To support the growing operations I am currently in the process of hiring a full time manager. This individual will be responsible for managing the day to day activities across the aquaculture leases.

2.5 Other economic Contributions to the local community and Province

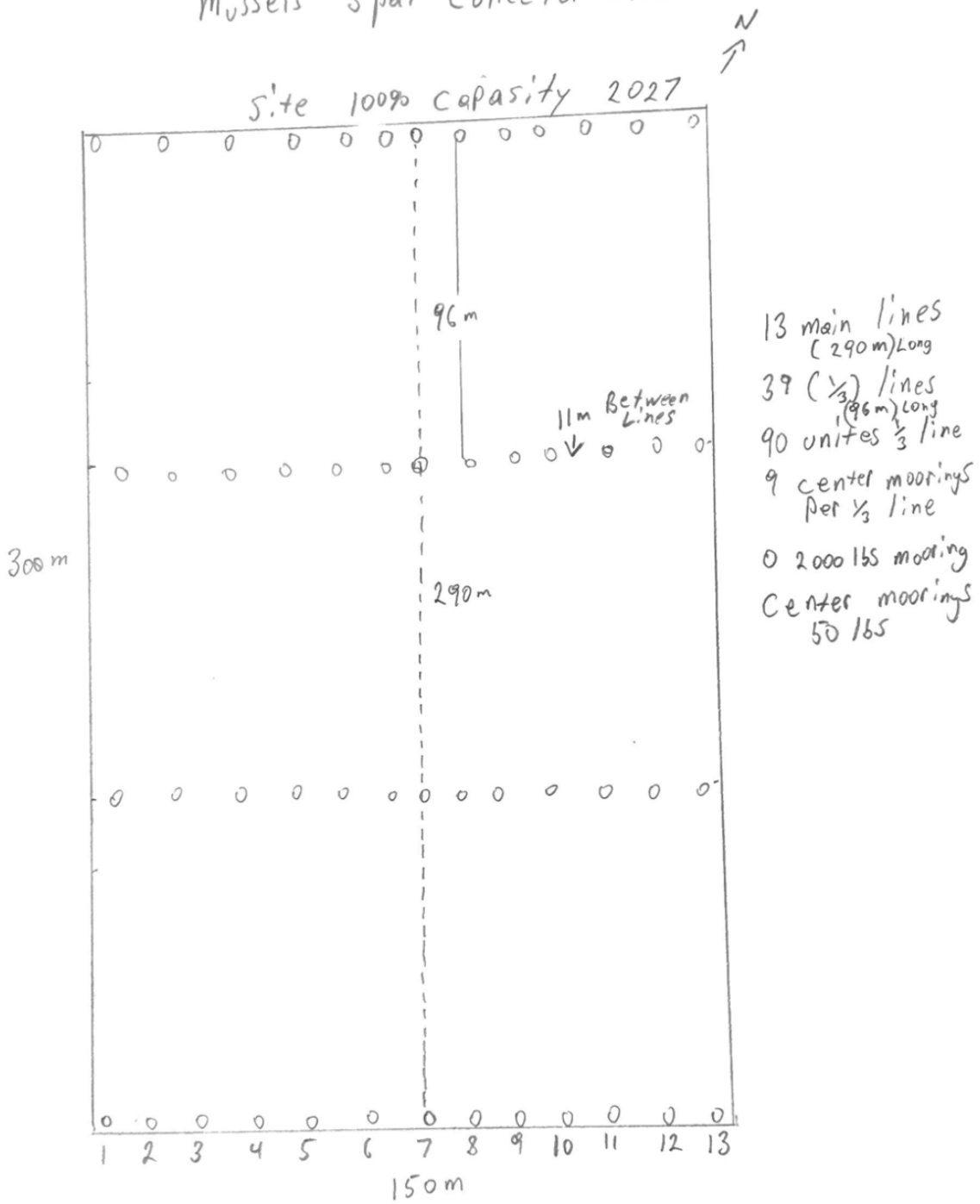
My aquaculture operation plays a growing role in supporting the local economy by creating employment opportunities and fostering skills development. Through on-the-job training, I help develop practical skills in marine operations, shellfish handling, marketing, and administrative tasks, contributing to workforce development. In addition, I actively support other local businesses by working with contractors, suppliers, and marine service providers for equipment needs and boat maintenance. My operation produces high-quality shellfish products for local markets.

Section 4: OCEANOGRAPHIC AND BIOPHYSICAL CHARACTERISTICS OF THE PUBLIC WATERS

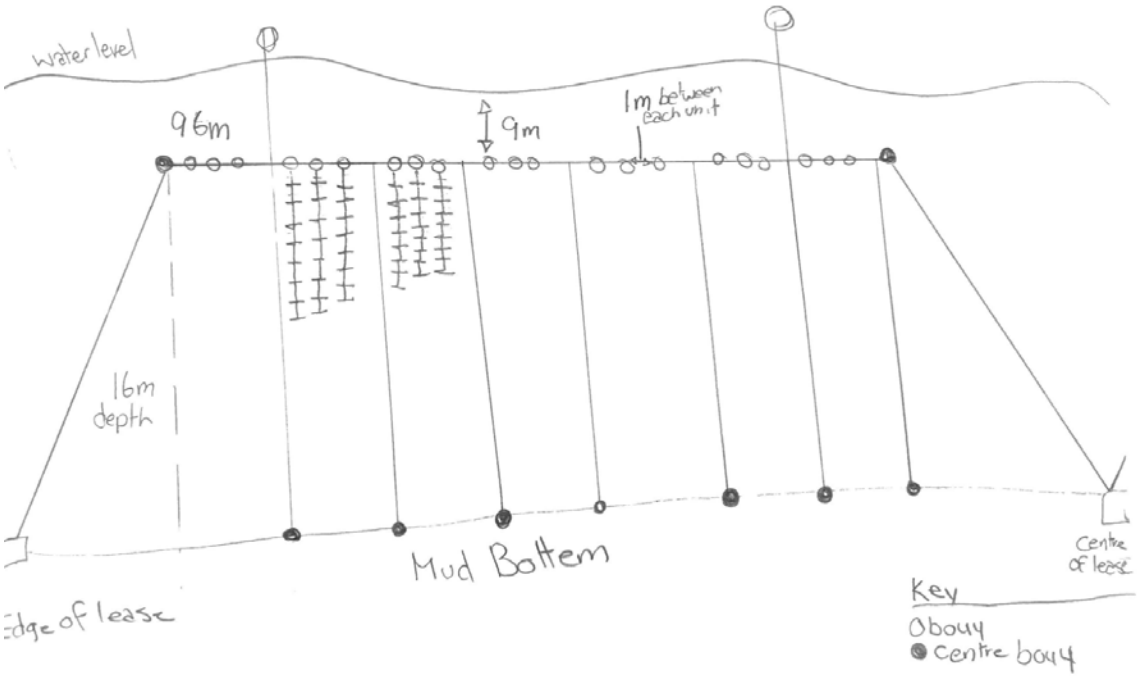
4.3 Site Design



Lease : 0846
Mussels spat collector site



Site 0846 Sideview
Scallops




Site 0846 Sideview
Mussels