



December 1, 2025

PUP No. 877-0013-25-28

VIA EMAIL

Attn: Luke Pletsch

Greig Seafood BC Ltd.
106-1180 Ironwood Street
Campbell River, BC V9W 5P7

Dear Permit Holder:

Enclosed is Pesticide Use Permit No. 877-0013-25-28 issued under the provisions of the *Integrated Pest Management Act*. Your attention is respectfully directed to the terms and conditions outlined in the permit that must be complied with.

It is the responsibility of the permit holder to ensure that all activities conducted under this permit are carried out with due regard to the rights of third parties and comply with other applicable legislation that may be in force - including, but not limited to, using pesticide only for the use described on the label and in accordance with the instructions on that label. This permit does not authorize entry upon, crossing over, or use for any purpose private or Crown lands or works, unless and except as authorized by the owner of such lands or works. The responsibility for obtaining such authority rests with the permit holder.

This decision may be appealed to the Environmental Appeal Board in accordance with Section 14 of the *Integrated Pest Management Act*. An appeal must be delivered within 30 days from the date that notice of the decision is given. For further information, please contact the Environmental Appeal Board at (250) 387-3464.

Administration of this permit will be carried out by staff from the Environmental Protection Division's Authorizations and Remediation Branch. Plans, data and reports pertinent to the permit are to be submitted by email or electronic transfer to the administrator, or as further instructed.

Yours truly,

A handwritten signature in cursive script, appearing to read "Andreas Wins-Purdy".

Andreas Wins-Purdy, P.Ag.
Section Head, Recycling and Pesticide Authorizations
On behalf of the Administrator, *Integrated Pest Management Act*



MINISTRY OF ENVIRONMENT AND CLIMATE CHANGE STRATEGY

PESTICIDE USE PERMIT

No. 877-0013-25-28

Pursuant to Section 6 of the Integrated Pest Management Act

Grieg Seafood BC Ltd.
106-1180 Ironwood Street
Campbell River, BC
V9W 5P7

is authorized to use pesticides subject to the conditions listed below. Contravention of any of these conditions is a violation of the *Integrated Pest Management Act* and may result in prosecution.

1. Purpose of Permit

- 1.1 This permit has been issued for the management of post-chalimus stage sea lice (*Lepeophtheirus spp* and *Caligus spp*) on farmed Atlantic salmon at facilities in Nootka Sound (Atrevida, Concepcion Point, Gore Island, Muchalat North and South, Williamson) as shown on the attached maps. The permit authorizes the use of the pesticide Interlox Paramove 50 (active ingredient hydrogen peroxide) administered using the well-boat or tarpaulin treatment methods. This use is authorized as part of an integrated pest management program for sea lice management and is necessary as part of an effective resistance management strategy for chemotherapeutant use at these sites.
- 1.2 Pesticide use under this permit must be consistent with and follow the Greig Pesticide Use Treatment Plan dated April 2025. Should there be any discrepancy between the treatment plan and clauses in this permit, the permit shall prevail.

2. Treatment dates

- 2.1 The authorized pesticide use may occur from the issue date of this permit until the permit expires on November 30, 2028.

3. Authorized Pesticide Use

- 3.1 The authorized pesticide is Interlox Paramove 50, P.C.P. No. 31393, active ingredient: hydrogen peroxide.

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- 3.2 The authorized pesticide application rate is 2.4 to 3.6 g/L.
- 3.3 The authorized method of pesticide application is immersion bath in a well-boat or in a tarpaulin.
- 3.4 A maximum of six pesticide applications per pen per year is permitted, of which a maximum of two applications may be conducted using the tarpaulin method.
- 3.5 Pesticide use of Interlox Paramove 50 under a PMRA research authorization is not subject to the terms and conditions of this permit, except for Condition 9.1(e).

4. Access to Permit Information

- 4.1 Within seven days after the issue date of this permit, the permittee must:
 - (a) post a copy of the permit and the "Greig Pesticide Use Treatment Plan" (Greig Seafood Ltd., April 2025), or most current version) on the Greig Seafood BC Ltd. website;
 - (b) post a copy of the permit and the treatment plan at the Greig Seafood offices at 106-1180 Ironwood Street, Campbell River, BC; and
 - (c) keep the copies of the permit and treatment plan posted until November 30, 2028.
- 4.2 Within 3 business days of a request by anyone accessing the general area adjacent to a treatment area, the permittee must provide information detailing when and where individual pesticide treatments were, or will be, made.

5. Notification

- 5.1 At least 24 hours before any pesticide use, the permittee must post treatment notices at the access points to each facility being treated and maintain these notices for the duration of the pesticide use. These notices must:
 - (a) be at least 279 mm x 432 mm in size;
 - (b) be constructed of waterproof material;
 - (c) have the heading "Pesticide Use Notice" in 25 mm lettering;
 - (d) contain the permit number;
 - (e) contain the trade name and active ingredient of the pesticide to be used;
 - (f) contain the date, or range of dates, for the pesticide use;

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- (g) contain the precautions for all employees to take to minimize exposure to the pesticide and its residues;
 - (h) contain information on how to obtain additional information about the pesticide or the pesticide use.
- 5.2 Before any pesticide use, the permit holder must ensure that all personnel involved are notified of the terms and conditions of the permit and any permit amendments.
- 5.3 At least 2 days and not more than 35 days before conducting a pesticide treatment, the permittee must send a treatment notice to IPMReporting@gov.bc.ca that includes the location, application method, date and estimated time of treatment.
- 5.4 The permittee must provide prompt notification to IPMReporting@gov.bc.ca when a pending pesticide treatment is cancelled, delayed or deferred.
- 5.5 The permittee must conduct any additional notification agreed upon during the consultation process in the manner agreed upon with the parties to be notified.

6. Integrated Pest Management Requirements

- 6.1 The permittee must make all reasonable efforts to remove moribund fish.
- 6.2 The permittee must follow the procedures outlined the Grieg Seafood Treatment Plan (April 2025) for correctly identifying sea lice and monitoring populations of *Lepeophtherius spp* and *Caligus spp.*.
- 6.3 The permittee must verify one of the following circumstances exist before conducting any pesticide treatment:
- (a) A pre-established threshold of motile *Lepeophtherius* sea lice per fish per site has been exceeded. The pre-established threshold may be: required to maintain compliance with the company's Marine Finfish Aquaculture Licence under the *Fisheries Act*; established by the veterinarian responsible for fish stock health to achieve management objectives; or, established as part of an Area Based Management Plan.
 - (b) The veterinarian responsible for fish stock health deems that treatment of sea lice is necessary to prevent the infestation of a site when fish are being moved between pens.
- 6.4 When sea lice control is deemed necessary, the permittee must consider all available treatment methods as outlined in the "Grieg Pesticide Use Treatment Plan" (Grieg Seafood

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Ltd., April 2025.

- 6.5 After each pesticide application, the permittee must determine the effectiveness of the pesticide application by monitoring sea lice populations in accordance with the "Pesticide Use Treatment Plan" (Grieg Seafood Ltd., April 2025).
- 6.6 The permittee must undertake ongoing research efforts to investigate the feasibility of additional sea lice control methods, including, but not limited to, the use of mechanical removal technology, cleaner fish, sea lice skirts, and freshwater treatments.

7. Monitoring

- 7.1 The permittee must visually monitor for any potential impacts to non-target organisms during the release of pesticide-treated waters from either the well-boat or tarpaulin treatment method.
- 7.2 For tarpaulin treatments only, the permittee must conduct water sampling to determine levels of hydrogen peroxide in the water both inside and outside the treated pen, at various depths and times post-treatment, in accordance with the following guidelines:

- (a) **Number of samples required**

One water sample is required for each sample location, depth, and time.

- (b) **Depth of samples**

Within the pen, water samples for each sample location must be taken at 1m and 5m below the water surface.

Outside of the pen, water samples for each sample location must be taken at 1m, 5m and 20m below the water surface.

- (c) **Timing of sampling**

Both within and outside of the pen, water samples at each sample location and depth must be collected within 30 minutes post-treatment. If hydrogen peroxide is detected at any sample location or depth, sampling must be repeated at regular intervals of not more than 30 minutes until a "not detectable" result is obtained. Sampling at each location and depth may stop once a "not detectable" result is obtained.

- (d) **Location of samples**

Within the pen, the sample locations may be chosen by the permittee.

Outside of the pen, water samples must be taken at the outside edge of the pen and at 30m from the edge of the pen. The locations of sampling will align with the direction of the prevailing current. If hydrogen peroxide is detected at the location

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30m from the pen, an additional sample location 45m beyond the 30m location must be added.

8. Restrictions

- 8.1 The permittee must ensure pesticide-treated waters from well-boats is released only while the vessel is in motion, and in locations that are a minimum of 200 m away from shore, **OR** the well-boat must employ a filtration system that is capable of filtering 100% of waste water through a minimum 150 micron filter prior to discharge.
- 8.2 For tarpaulin treatments, the permittee must employ a sea lice recapture device consisting of a collection trough, water pumps, and a screen to capture dislodged sea lice, and make reasonable attempts to recover dislodged sea lice during treatment.
- 8.3 Tarpaulin treatments may only be conducted if fish size limitations are exceeded, or if sea lice outbreaks exceed the treatment capability of well-boat assets.
- 8.4 Pesticide use must be conducted under the direction of a provincially-licenced veterinarian.
- 8.5 Pesticide use must be conducted by applicators with valid certificates in the *Marine Aquaculture* category and in accordance with any additional treatment-specific training required by the pesticide manufacturer.
- 8.6 The permittee must ensure that a copy of the certificate of all certified applicators conducting the pesticide use is at or near the treatment location during the pesticide use.
- 8.7 The permittee must comply with the requirements of the label for the pesticide used.
- 8.8 The permittee must comply with all applicable regulations under the *Integrated Pest Management Act*.
- 8.9 This permit is not transferrable without the written approval of the Administrator.

9. Record Keeping

- 9.1 For each treatment location and day of pesticide use, the permittee must keep a record containing the following information:
 - (a) the treatment location;
 - (b) the name and certificate number of each pesticide applicator certificate holder who used the pesticide;

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- (c) the date and time of the pesticide use;
- (d) the pre- and post-treatment sea lice monitoring results;
- (e) the specific threshold and/or justification for the pesticide use determined by the veterinarian responsible for fish stock health;
- (f) the trade name of the pesticide used and its registration number under the federal *Pest Control Products Act*;
- (g) the method and rate of application and the total quantity of pesticide used;
- (h) the details of observed impacts on non-target organisms during the release of pesticide-treated waters;
- (i) for well-boat treatments:
 - i) the water temperature and direction of the tide at the time of release of pesticide-treated waters from the well-boat;
 - ii) the direction and speed of the well-boat at the time of release of treated waters;
 - iii) the distance from shore of the well-boat at the time the treated water is released; and
- (j) for tarpaulin treatments, the results of the water monitoring requirements specified in Condition 6.2.

9.2 All records required under this permit must be retained for a period of 3 years after the permit expires, and must be provided to an IPM Officer upon request.

10. Reporting

10.1 The permittee must submit an annual report for each calendar year to IPMReporting@gov.bc.ca on or before January 31 of the following calendar year. The report must include the following information:

- (a) The total quantity of Interlox Paramove 50 used in the calendar year at all aquaculture facilities;
- (b) For each aquaculture facility treated with Interlox Paramove 50:
 - i) the date or range of dates of treatment(s);
 - ii) for well-boat treatments, the total number of well-boat loads;
 - iii) for tarpaulin treatments, the total number of pens treated;
 - iv) the average load biomass in kilograms;

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- v) the pre-treatment sea lice levels;
 - vi) the post-treatment sea lice levels;
 - vii) the percent efficacy of the treatment;
 - viii) the total volume of water treated;
 - ix) the total quantity of Interlox Paramove 50 used; and
 - x) for tarpaulin treatments, the results of the water monitoring requirements specified in Condition 6.2.
- (c) A summary statement indicating what, if any, effects on non-target organisms were observed during Interlox Paramove 50 treatments.
- (d) A summary of the sea lice recapture efforts conducted, including an estimate of the percent of dislodged sea lice captured for each Interlox Paramove 50 treatment.
- (e) A summary of the Interlox Paramove 50 treatments at all aquaculture facilities that were performed under a PMRA research authorization. The summary must include:
- i) the total number of well-boat loads treated;
 - ii) the total number of pens treated using the tarpaulin treatment method;
 - iii) the total volume of water treated; and
 - iv) the total quantity of Interlox Paramove 50 used.
- (f) A summary of any non-chemical treatments for sea lice control conducted, including the type and number of each treatment type.
- (g) A summary of the number of SLICE (active ingredient emamectin benzoate) treatments conducted at all aquaculture facilities, including the date ranges associated with these treatments and the volume of SLICE used for each treatment.
- (h) A summary of the ongoing research efforts by the permittee to investigate the feasibility of additional non-chemical sea lice control methods, including, but not limited to, the use of mechanical removal technology, cleaner fish, sea lice skirts, and freshwater treatments.
- 10.2 The permittee must report any effects on non-target organisms observed as a result of the release of pesticide-treated waters from the pen or the well-boat as soon as practicable to the Administrator via IPMReporting@gov.bc.ca.
- 10.3 Upon request from the Administrator, the permittee must provide water treatment calculations and dose rates associated with the planned or performed pesticide use.
- 10.4 Pesticide spills that result in impacts not authorized by or consistent with this permit must

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be immediately reported to the Provincial Emergency Program at 1-800-663-3456.

- 10.5 If a pesticide spill results in impacts not authorized by or consistent with this permit, as soon as practicable, the permit holder must submit a report on the spill and activities undertaken under Condition 7.11 to environmentalcompliance@gov.bc.ca.
- 10.6 Permit non-compliance that results in impacts not consistent with the intent of this permit must be reported to environmentalcompliance@gov.bc.ca within 48 hours of the infraction's discovery. Further action taken, to the satisfaction of the Administrator, may be required to evaluate the potential impact of the non-compliance on human health and/or the environment.
- 10.7 If the permittee believes that the permit holder or another person has contravened the *Integrated Pest Management Act* or Regulation in a manner involving the release of pesticide into the environment, the permit holder must give written notice to the Administrator at environmentalcompliance@gov.bc.ca as soon as practicable.

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Map 1. Overview map showing the location of the Atrevida, Concepcion Point, Gore Island, Muchalat North and South, Williamson.

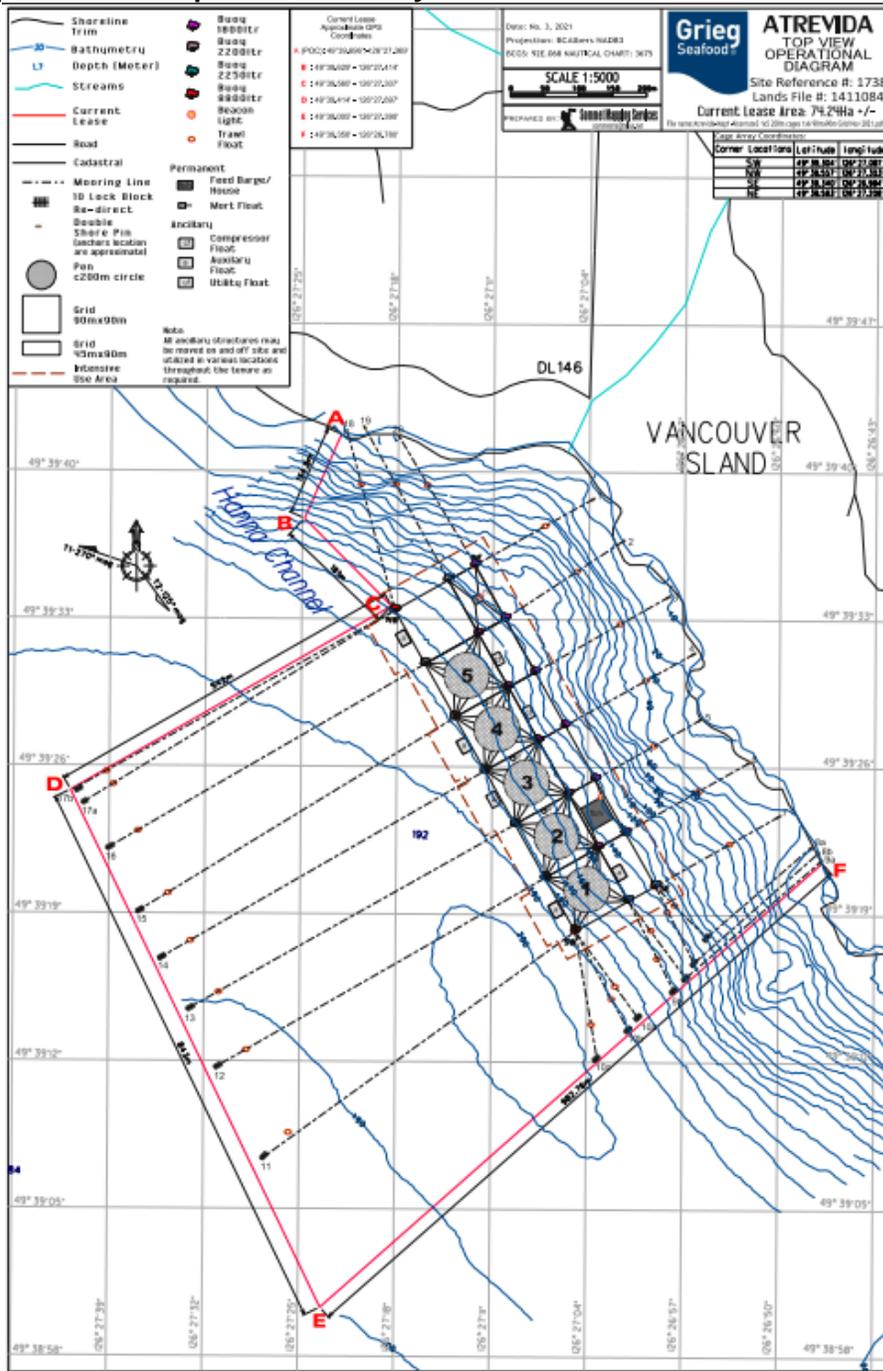


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Map 2. Atrevida aquaculture facility.

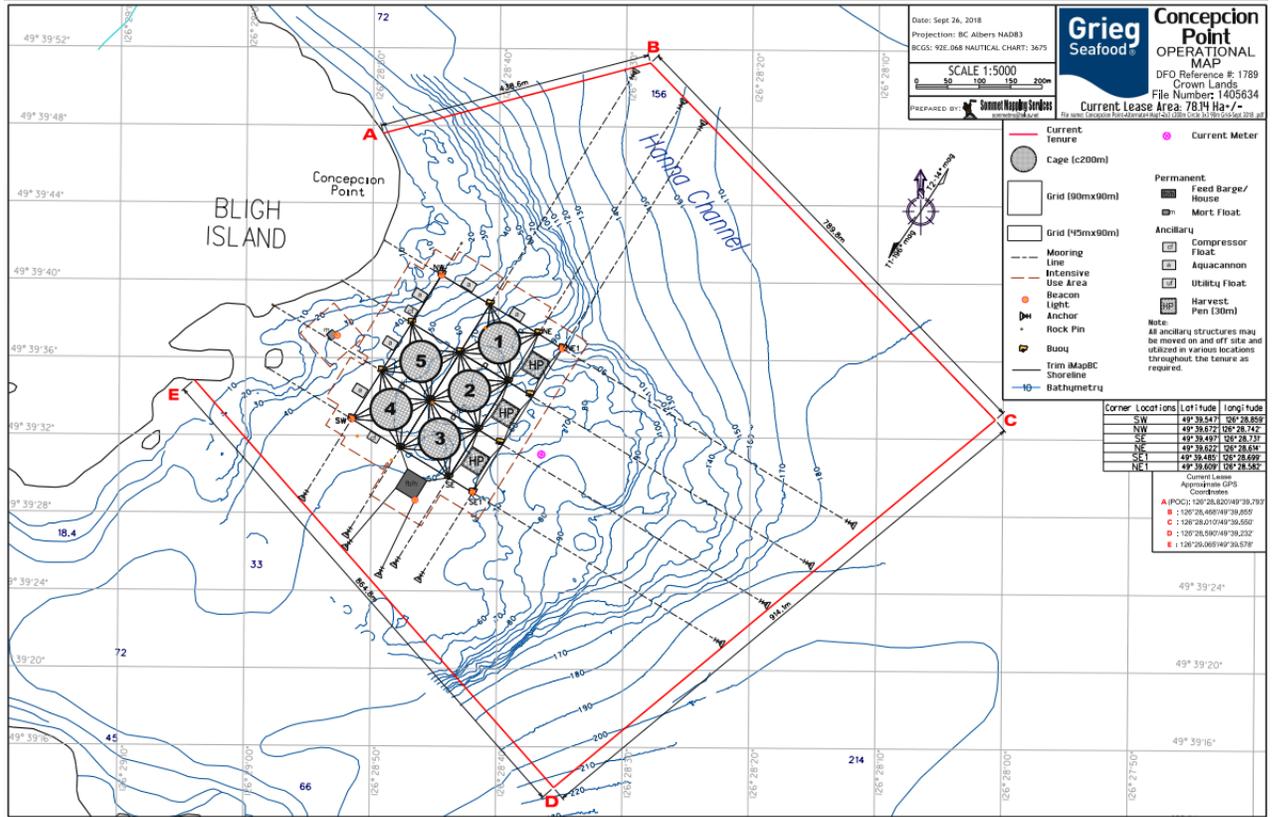


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Map 3. Concepcion Point aquaculture facility.

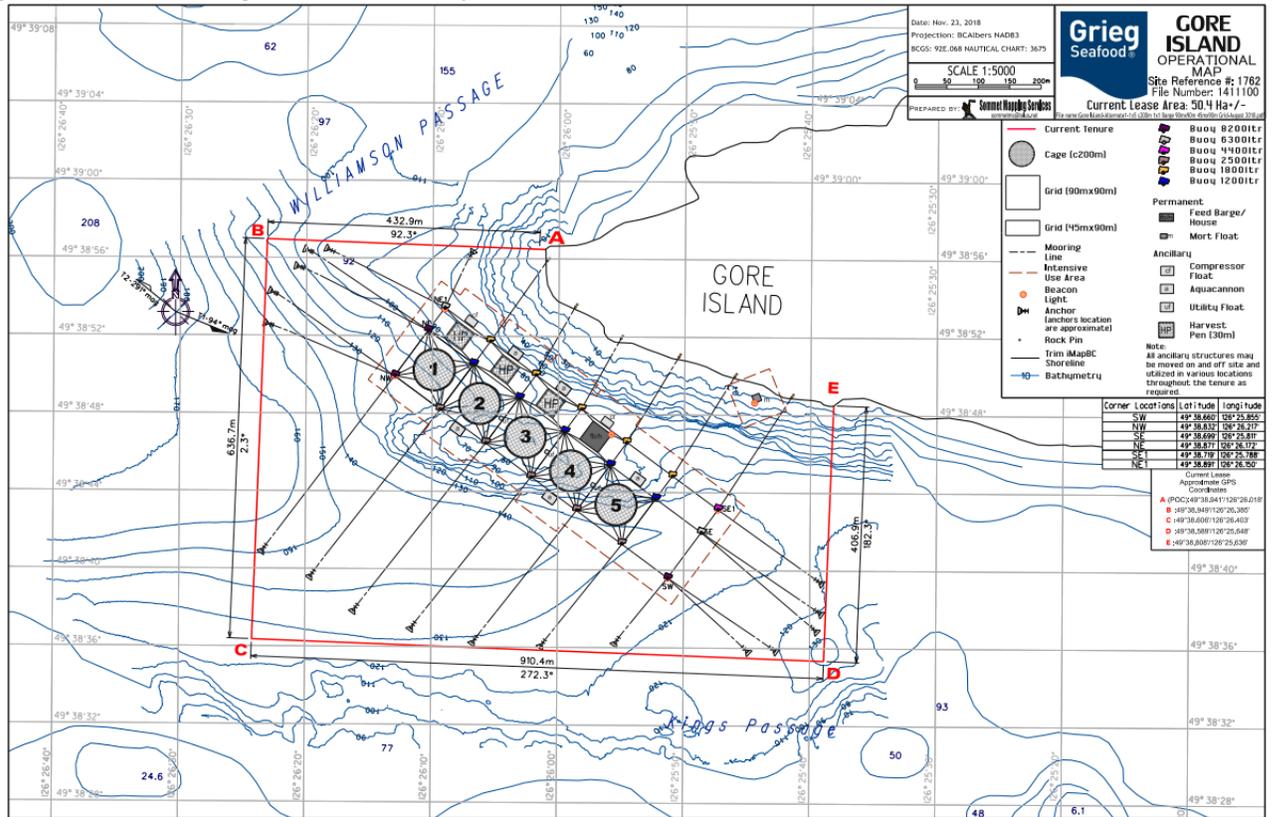


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Map 4. Gore Island aquaculture facility.

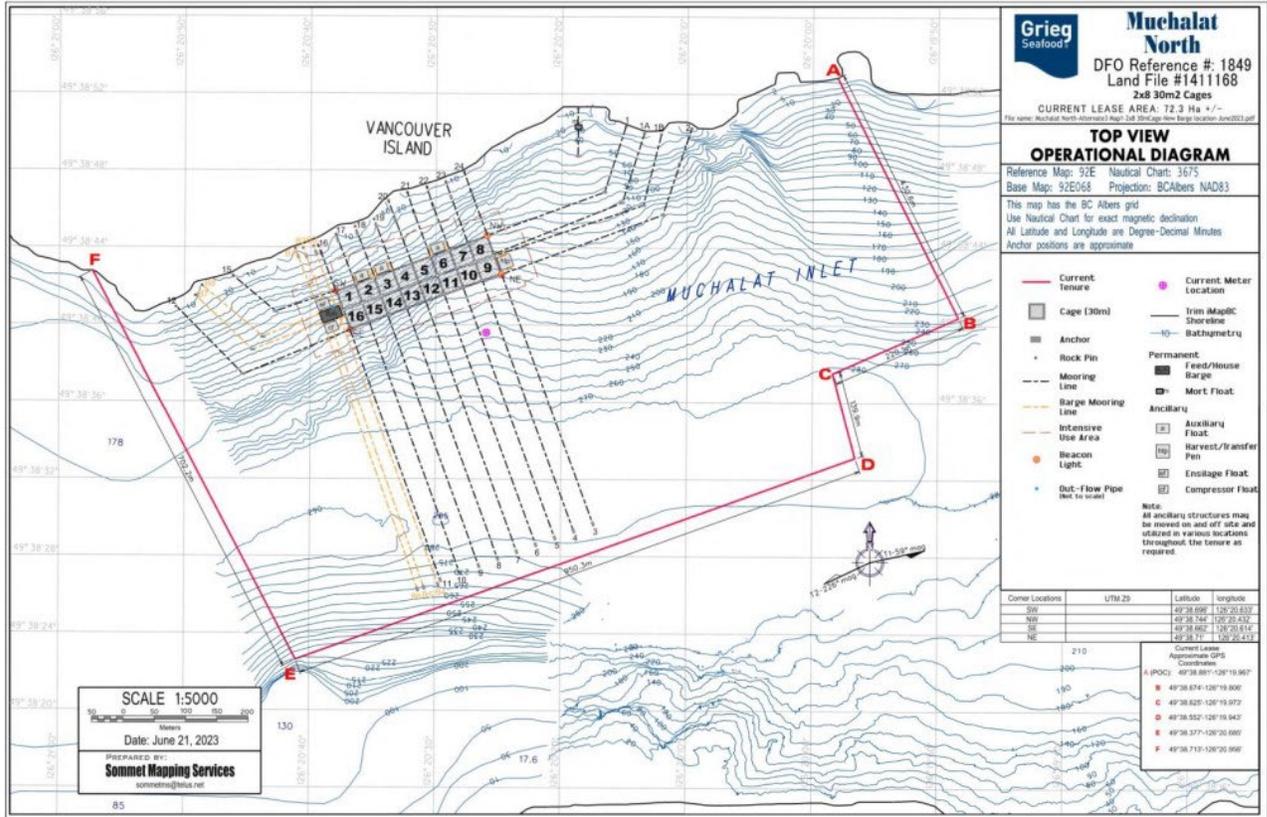


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Map 5. Muchalat North aquaculture facility.

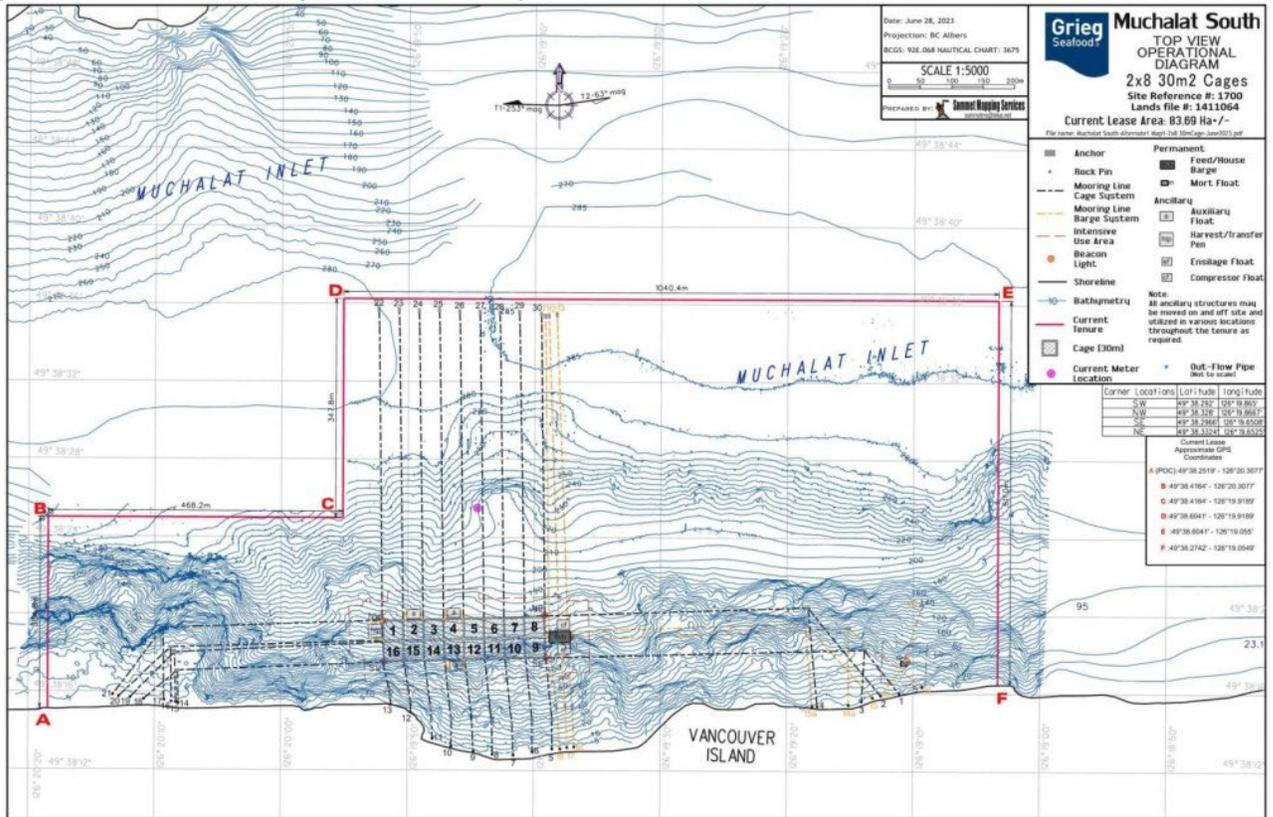


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Map 6. Muchalat South aquaculture facility.

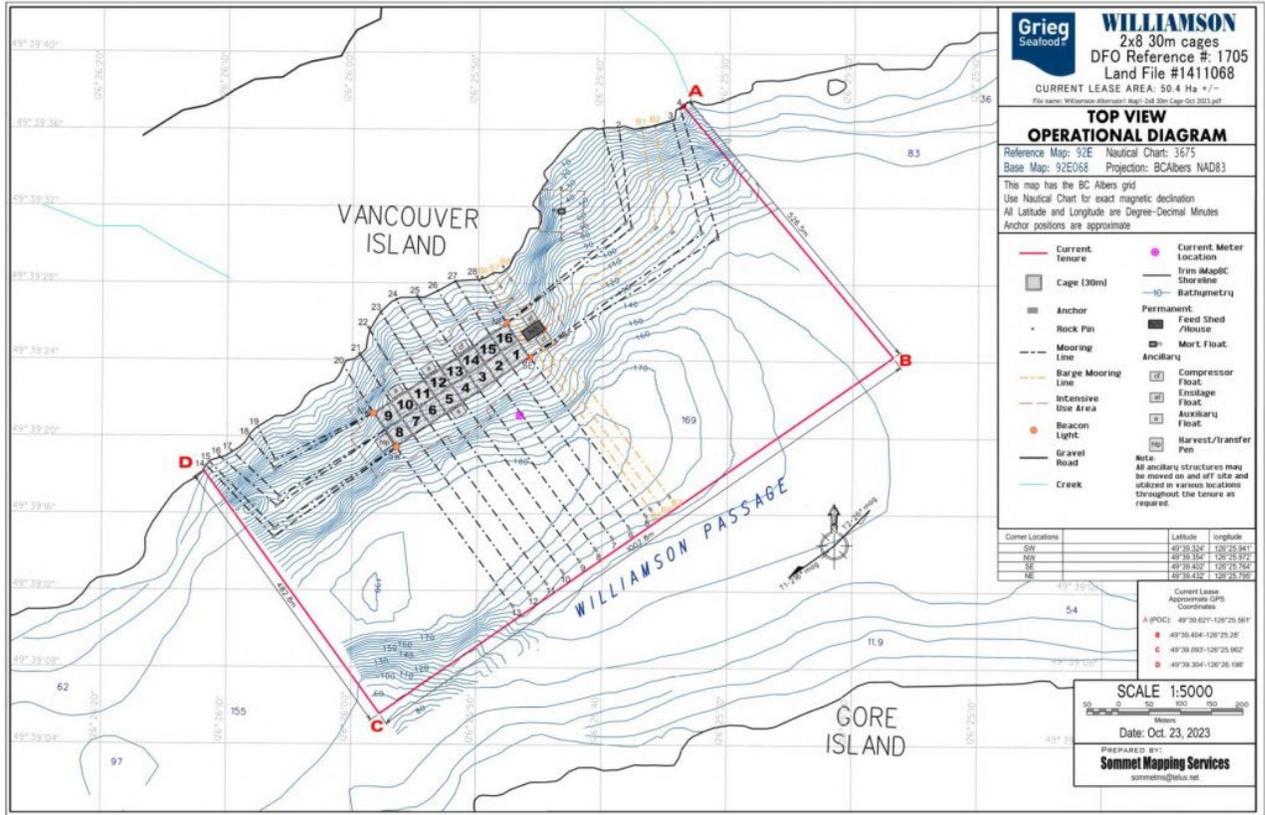


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Map 7. Williamson aquaculture facility.



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