Schedule G: Closed/Semi-Closed Containment System

Part 1: Plans and Reporting

As part of a complete application package, various plans and reports are required to be included with a proposal. Table 1 identifies the plans and reports that applicants are required to provide depending on the type of development. Applicants are encouraged to consult an Aquaculture Development Officer when preparing application packages.

Table 1

Type of Development	Plans and Reports Required
New/Site Boundary Amendment	○ Baseline Survey Report ○ Business Plan (Commercial) ○ Consultation Report ○ Environmental and Waste Management Plan ○ Fish Health Management Plan (includes Biosecurity and Integrated Pest Management Plan) ○ Incident Management System Plan ○ Production Plan ○ Site Restoration Plan ○ Project Plan (Non-Commercial)
Species Add-on	○ Business Plan (Commercial) if existing plan does not accommodate the proposed add-on ○ Project Plan (Non-Commercial) ○ Production Plan ○ Updated management plans
Change of Ownership	○ Business Plan (Commercial) if existing plan does not accommodate the transition ○ Project Plan (Non-Commercial) ○ Production Plan ○ Updated management plans

Part 2: Technology Information

1. Type of technology to be used:_____

2. Manufacturer of technology:_____

3. Indicate the maximum stocking density for the proposed technology as specified by the manufacturer. _____ kg/m^3

4. Is the containment system closed or semi-enclosed? _____

5. Indicate if proposed technology been used for this purpose before. □ Yes □ No

    a) If yes, indicate the jurisdiction in which the technology has been used and provide details regarding the scale of the operation and the species cultured.

_____

_____

_____

_____

6. Provide the dimensions of the containment system.

_____

_____

_____

_____

7. Indicate if the proposed technology will occupy the entire site or a portion of the site. Provide system deployment details and indicate the layout on site drawings.

_____

_____

_____

_____

8. Describe the mooring system required for the proposed technology.

_____

_____

_____

_____

9. Will onshore power be required in order to operate this technology? □ Yes □ No
   a) If yes, a separate Crown Lands Lease Application will be required if the land intended to be used is crown land.

10. Is this a fully automated / remote operated system? □ Yes □ No
   a) If yes, does it require internet access to troubleshoot? □ Yes □ No
   b) What is the required bandwidth and is it available at the site location?

   _____

   _____

   c) If necessary, can the system be operated manually? □ Yes □ No

Part 3: Development / Production Plan

1. From start-up to full operation, use Table 2 to record the following information as it relates to the cultivation of the species using the proposed technology:

   a) estimated month and year stock will be introduced;
   b) the expected number of smolts/fingerlings/fry to be stocked;
   c) the growth period;
   d) the average individual fish weight at the start and the end of growth;
   e) expected losses over growth period; and
   f) the final production quantity at the end of growth period.

Table 2

Year/ Month	Stocking Number	Growth Period (months)	Avg. Start Weight (kg)	Avg. Final Weight (kg)	Expected Losses (%)	Expected Production (kg)

Example

2021/05	1,000,000	28	0.25 kg	5.95 kg	10%	5,652,500 kg

2. Indicate the expected maximum stocking (rearing) density. _____ kg/m³

3. If applicable, will the proposed technology be used during regular stocking at the site or during the fallow period as prescribed by the Bay Management Areas Agreement?

4. Specify the type of feed to be used (e.g. moist, dry, silage based, other).

5. Describe the method of feed administration.

6. In Table 3, provide the feed schedule for the entire growth cycle. Include planned amounts to be used.

Table 3

Year/Month	Species Biomass (kg)	Monthly Feed Amount (kg)

7. What is the annual feed consumption?_____kg

8. Describe in detail, the methods that will be adopted to minimize excess feed such as the use of feed tables, calculations to optimize feed use, the use of one feed form over another, feed cameras or other electronic feedback systems (including frequency of monitoring), pellet size, etc.

Part 4: Site Suitability

1. Describe any fishing activities (e.g. commercial, Indigenous or recreational fisheries), tourism operations, cabins, recreational activities (e.g. boating, diving, water skiing, swimming, etc.) or industrial facilities, and water uses that are located within a 2km radius of the site lease boundary. Provide information on the activities time(s) of operation and proximity to the site.

2. Identify potential impacts other resource users may have on the proposed development, if applicable. Include the measures to be established to minimize potential interactions and possible negative impacts by other resource users.

3. Identify any potential impacts the proposed operation will have on other resource users during the development phase of the project and while it is in operation, if applicable. Provide details on the measures to be established to minimize the impacts.

4. If applying for a saltwater operation, provide temperature and salinity at the indicated depths in Table 4.

Table 4

	Spring		Summer		Fall		Winter	
Depth (m)	**Temp (°C)**	**Salinity (ppt)**	**Temp (°C)**	**Salinity (ppt)**	**Temp (°C)**	**Salinity (ppt)**	**Temp (°C)**	**Salinity (ppt)**
0								
1								
2								
3								
4								
5								
10								
Bottom less 1 metre								

5. If applying for a freshwater operation, provide the following water quality parameters in Table 5 at a depth of one meter.

Table 5

Parameters Values	**Spring**	**Summer**	**Fall**	**Winter**
Dissolved Oxygen (mg/l)				
Total Alkalinity (mg/l)				
Hardness (as Calcium Carbonate) (mg/l)				
Ammonia (mg/l)				
pH				
Temperature (ºC)				

6. Identify the minimum water depth below the bottom of the containment system at low tide: _____metres. Include this depth on a cross-sectional drawing of the site.

7. Identify the depth of water required for intake. _____metres

8. Identify the estimated water flushing/turnaround time for the containment system.

_____

9. Exposure to wind and waves:

   a) Maximum fetch: _____ kilometers Direction: _____.

   b) Prevailing wind direction:

   Spring _____ Summer _____ Fall _____ Winter _____

   c) Maximum wave height: _____ meters.

10. Indicate the prevailing storm wind direction. Label this wind on a map.

_____

11. Provide details on the ability of the proposed technology to withstand the conditions described above. Identify measures to mitigate potential impacts that may result from weather conditions.

_____

_____

_____

_____

Part 5: Sustainability of Wild Salmon

1. Provide on a map the location of wild salmon rivers in the region and their proximity to the proposed operation.

2. Provide details regarding measures to be established to support sustainability of wild salmon (e.g. containment measures, traceability, conservation efforts, etc.) within the vicinity of the proposed operation.

3. Provide details regarding any salmon recovery or restoration efforts that are planned or established in the region of operation and how the proposed operation may interact with these efforts.

Part 6: Economic Development

1. Provide an overview of the benefits of the proposed development to the Province. Include the socio-economic benefits, supply and service opportunities, potential direct and indirect spin-off industries and other relevant information that demonstrates the impacts and scale of benefits. For this response, include direct and indirect employment creation and targets/commitments that must be accessible and inclusive of all genders, Indigenous peoples, persons with disabilities, visible minorities, and youth. Please identify if employment expertise availability is local and/or national/international.

2. In Table 6, identify direct and indirect employment creation that will result from the proposed development for the next three years. Identify duration of employment and if possible, provide the types of positions (e.g. managerial, supervisory, technical, administration, etc.).

Table 6

Year	Number of Employees			Type of Position
	Full Time	Part Time	Seasonal	

3. Indicate if the required labour supply and level of skill is available to operate the proposed development. Explain how this has been determined.

4. In the event the required skill-set is not available within the labour supply, describe any training plan and/or other measures to be established to address.