

Schedule C: Land-Based Operations

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 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	<ul style="list-style-type: none"> ○ 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 ○ Project Plan (Non-Commercial)
Species Add-on	<ul style="list-style-type: none"> ○ 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	<ul style="list-style-type: none"> ○ Business Plan (Commercial) if existing plan does not accommodate the transition ○ Project Plan (Non-commercial) ○ Production Plan ○ Updated management plans

Part 2: Development/Production

- Complete the areas that apply to the proposed operation. Label the equipment on site layout diagrams.

Incubation units:

Number _____ Egg Total _____

Larval Tanks:
 Number _____ Total Water Capacity _____

Tanks:
 Number _____ Total Water Capacity _____

Raceways:
 Number _____ Total Water Capacity _____

Phytoplankton Tanks:
 Number _____ Total Water Capacity _____

2. From start-up to full operation, please indicate in Table 2 the:
- a) estimated year and month the animals will be stocked;
 - b) animal stage to be stocked (eggs, larvae, or juveniles);
 - c) number to be stocked;
 - d) estimated growth period in months;
 - e) average final weight;
 - f) expected losses over the growth period; and
 - g) expected production at the end of the growth period.

Table 2

Year/Month	Animal Stage	Stocking Number	Growth Period (months)	Average Final Weight (kg)	Expected Losses (%)	Expected Production (kg)

3. Schedule of Production:

Month and Year the starting stock will be introduced _____

Month and Year the facility will be in full production _____

Amount of production at full capacity _____ kilograms

4. In Table 3, provide the range of biomass on site within the following five calendar years.

Table 3

Year	Biomass (kg)	
	Minimum	Maximum

Note: Minimum biomass is usually the amount of product at the facility immediately after shipment of production. Maximum biomass is usually the amount of product at the facility just before shipment of production starts.

5. In Table 4, provide the feed schedule for the entire growth cycle. Include planned amounts to be used.

Table 4

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

6. Indicate the type of feed to be used. _____
7. Indicate if automatic feeders will be used. Yes No
8. Indicate if a feed-fine recovery system will be used. Yes No
9. Silage or other feed manufacturing proposed. _____

10. Describe the disposal methods for solid waste (e.g. mortalities, feed bags, etc.).

Part 3: 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.

Complete either Section A if the proposed operation will use seawater or Section B if the proposed operation will use freshwater.

Identify source body of water, intake and discharge lines, and other relevant details on site layout diagrams.

Section A: Site / Water Suitability for Seawater Operation

1. Name the source body of water. _____

2. Does the water source have a disease profile? Yes No

a) If yes, identify the source of information.

3. Indicate if the facility will be a flow-through system. Yes No

a) If no, please provide details on recirculating facility.

4. Describe filtration disinfection system to be used, if applicable.

5. Indicate the intake rate: _____ litres/day

6. Indicate the maximum and minimum depth of intake:

a) Maximum _____metres

b) Minimum _____metres

7. Indicate the depth of discharge: _____metres

8. Indicate the distance from discharge to intake: _____metres

9. Indicate the discharge rate: _____ litres/day
10. Indicate the intake and/or outlet grid size: _____
11. Indicate the distance from discharge to nearest aquaculture facility.
_____ kilometers
12. Describe the wastewater treatment method.

13. Indicate if the water quality parameters fall within the water quality requirements for the proposed species? Yes No
- a) If no, indicate how the water quality parameters will be brought within accepted requirements for the species?

Section B: Site / Water Suitability for Freshwater Operation

1. Indicate the water supply type: Municipal Private
- a) If municipal, indicate if the following:
- i. Supplied by lake, stream, dug well, drilled well, or flowing spring: _____
 - ii. Pumped or gravity flow: _____
 - iii. Name of the source body of water: _____
- b) If private, indicate the following:
- i. Supplied by lake, stream, dug well, drilled well or flowing spring: _____
 - ii. Pumped or gravity flow: _____
 - iii. Name of the source body of water: _____

2. If private water supply, does the water source have a disease profile? Yes No
a) If yes, identify the source of information.

3. Indicate if the facility will be a flow-through system. Yes No
b) If no, please provide details on recirculating facility.

4. Describe filtration disinfection system to be used, if applicable.

5. Indicate the intake rate: _____ litres/day

6. If using surface water, indicate the maximum and minimum depth of intake:

a) Maximum _____metres

b) Minimum _____metres

7. Identify where the water will be discharged to:

lake

stream

municipal sewer

onsite waste disposal system

other (please describe): _____

8. If discharging to a water body, provide the following:

a. Name of the water body: _____

b. Depth of discharge: _____metres

9. Indicate the discharge rate: _____litres/day

10. Indicate the intake and/or outlet grid size:_____

11. Indicate the distance from discharge to the nearest aquaculture facility.
_____kilometers

12. Does the water source provide for future expansion? Yes No

13. Determine the seasonal levels of the following water quality parameters.

Parameter (mg/l = ppm)	Spring	Summer	Fall	Winter
Dissolved oxygen (mg/l)				
Carbon dioxide (mg/l)				
Total alkalinity (mg/l)				
Hardness (as calcium carbonate) (mg/l)				
Dissolved Reactive phosphorous (mg/l)				
Ammonia (mg/l)				
Nitrate (mg/l)				
Nitrite (mg/l)				
Copper (mg/l)				
Zinc (mg/l)				
Iron				
Total suspended solids				
pH				
Hydrogen Sulphide (mg/l)				
Temperature(°C)				

14. Describe the wastewater treatment method.

15. Indicate if the water quality parameters fall within the water quality requirements for the proposed species? Yes No

b) If no, indicate how the water quality parameters will be brought within accepted requirements for the species?

16. Identify an alternative water source if the primary source fails.

17. Indicate the provision(s) for aeration and/or denitrification?

Part 4: 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 5, 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 5

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.
