

Aquaculture Licensing Guide

Department of Fisheries, Forestry and Agriculture Aquaculture Development Division

May 02, 2022



Information contained in this document is subject to change.



Table of Contents

1.	Introdu	ction	2		
2.	Background				
3.	Preparing an Application Submission				
	3.1	Application for Aquaculture and Schedules	4		
	3.2	Technical and Financial Capability, Business Plan, and Management Plans	4		
	3.3	Site Layout Diagrams and Maps	5		
	3.4	Consultation Report	5		
	3.5	Land Tenure	5		
	3.6	Application Fees	5		
	3.7	Submission	5		
4.	Applica	tion Review	6		
	4.1	initial / 100000iniont			
	4.2	External Review	7		
5.	Public (Consultation	8		
6.	Licensii	ng Decision	8		

Acronym Listing

Policy and Guidance Reference

Appendix 1: Application for Aquaculture

Appendix 2: Schedules

Appendix 3: Consultation Report

Appendix 4: Fee Schedule



1. Introduction

The Department of Fisheries, Forestry and Agriculture (FFA) acts as the one-stop shop for aquaculture licensing for the province of Newfoundland and Labrador (NL). The process of obtaining an aquaculture licence is designed to provide an extensive review process that focuses on assessing an applicant's ability to farm responsibly and meet regulatory requirements. FFA has prepared this Aquaculture Licensing Guide to serve as a reference tool in assisting proponents in the preparation of an aquaculture licence application submission. It also outlines the applicants' responsibilities in ensuring applications are submitted in accordance with FFA's regulatory requirements. Updated versions of this guide will be available on the FFA website under the Aquaculture Licensing section. All application information collected may be subject to the Access to Information and Protection of Privacy Act, 2015 (ATIPPA, 2015).

2. Background

In order to conduct aquaculture in NL, an aquaculture licence is required as per FFA's Aquaculture Act. As the lead in the administration of the aquaculture licensing program, FFA coordinates application submission reviews with applicable provincial and federal regulators. The purpose of this guide is to inform the applicant of the information requirements and the process involved with respect to obtaining an aquaculture licence. In Figure 1: The Aquaculture Licensing Process, the key stages of obtaining an aquaculture licence are identified.

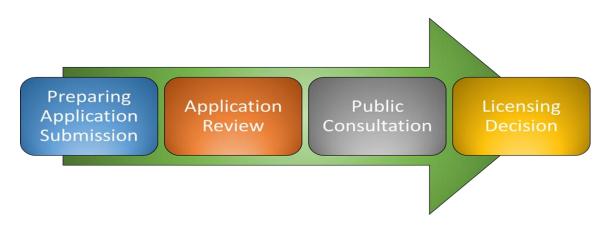


Figure 1: The Aquaculture Licensing Process



This guide is for information only and is not a substitute for the **Aquaculture Act** and regulations or other jurisdictional legislative requirements. In the event of an inconsistency between this document and legislation, legislation will always prevail. It is the responsibility of the proponent to review the requirements outlined in the **Aquaculture Policy and Procedures Manual**, as well as other materials that are in relation to the proposed development, to understand FFA's and other jurisdictional requirements. To ensure that regulators with jurisdictional responsibilities have the information required to inform the review of the proposed development, applicants must include all information as prescribed by the regulator in the application submission. Submissions that are deemed incomplete will not be accepted by FFA.

There are two classifications of licences: commercial and non-commercial. Requirements for each class of licence may differ during the application and annual reporting process.

There are also various types of developments for which an applicant may seek approval:

- New Sites;
- Site Boundary Amendment: increase in a licensed site size/area;
- Species Add-on: addition of a species to an existing licence;
- Change of Ownership; and
- Other types of developments that may be deemed applicable by FFA.

Applications must demonstrate how the proposed development will be operated in a responsible, orderly, and sustainable manner by providing specifics in the following key areas:

- Development and Production Plan
- Site Suitability
- > Sustainability of Wild Salmon, where applicable
- Economic Development and Benefits
- Applicant's financial and technical capabilities
- Mitigative measures and management strategies with respect to environmental, aquatic animal health, incident management, and site restoration elements
- Public notice and right to navigation

It is understood that specifics such as development and production information is a projection and based upon the information available at the time of the application



submission. As a result of operational performance outcomes at the site, development and production figures initially anticipated may change.

Preparing an aquaculture licence application and the process that follows upon submission will take a considerable amount of time. It is important for applicants to take this into consideration when setting realistic goals for effective business planning purposes. To improve the efficiency of the application process, applicants are encouraged to avail of FFA extension services during the preparation of aquaculture licence application submissions.

3. **Preparing an Application Submission**

3.1 Application for Aquaculture and Schedules

Proponents are required to submit a completed Application for Aquaculture to FFA (Appendix 1). This general application form is designed to be applicable to all types of aquaculture developments. In addition to this form, proponents must also include the associated schedule (Appendix 2) applicable to the development. Table 1 identifies which Schedule is required based on the type of development.

Tab	1 عا	١.	l i	iel	h	f S	c	hec	tud	29
IUN							-		4 W I	

Type of Operation	Schedule
Finfish Cage Culture	A
Shellfish	В
Land-Based	С
Fish-out Pond	D
Cod	E
Cleanerfish Species Add-on	F
Closed/Semi-Closed Containment System	G

Each schedule captures technical and site-specific criteria for different types of aquaculture operations. Additional schedules may be developed by FFA to support other developments as the aquaculture industry evolves.

3.2 Technical and Financial Capability, Business Plan, and Management Plans

To demonstrate technical and financial capabilities in operating a site, applicants are required to include or have approved and on file with FFA a business plan, as well as a suite of management plans: environmental and waste management, aquatic animal health, biosecurity, incident management, and depending on the type operation, a site restoration plan.



Applicants must also provide information required by other regulators, in accordance with policies and legislation, in order for those regulators to fulfill jurisdictional duties in advising FFA on the proposed development.

3.3 Site Layout Diagrams and Maps

Depending on the type of operation and development being proposed, site layout diagrams and maps are required by FFA and Transport Canada (TC). Site layout diagrams and maps are to be done to scale and depict a plan view (top down), profile view (cross section), depth profile where applicable, gear arrangement and location of all aquaculture facilities and structures to be utilized as part of the operation. Applicants are to ensure that any specific criteria noted in the schedules to be included in the site diagrams and maps is completed.

3.4 Consultation Report

In an effort to minimize resource user conflict, applicants seeking approval for a new site or a site boundary amendment to a licensed site are required to conduct consultations with relevant local stakeholders and other user groups that may be impacted by the proposed development. It is the applicant's responsibility to identify resource user groups within the vicinity of the proposed development, conduct the consultations and address concerns raised. Results of consultations are to be outlined in a Consultation Report (Appendix 3).

3.5 Land Tenure

Applicants are required to have title to the proposed site location before being considered for an aquaculture licence. Applicants are to provide proof of title or applications to access crown (https://www.gov.nl.ca/ffa/lands/applications/) or federal lands with an application submission.

3.6 Application Fees

Associated application fees (Appendix 4) are required to be submitted with an application. Applicants must be in good financial standing with the Government of NL, and if a registered company, be in good standing with Registry of Companies of NL (Registry) in order to be considered.

3.7 Submission

Application packages including all required components are to be submitted to aquaculturelicensing@gov.nl.ca. The application and associated documents are to be in a legible format. If assistance is required, please contact FFA at (709) 292-4100.



4. Application Review

Applications are subjected to an extensive review process. An Initial Assessment will be conducted by FFA staff followed by an external review by which departments and agencies with jurisdictional responsibilities will assess the proposed development in accordance with regulatory requirements. FFA will disclose application information to the applicable jurisdictions to aid in the assessment of the proposed development. Personal information will be protected in accordance with privacy requirements.

4.1 Initial Assessment

FFA staff will consider the following when assessing a proposed development:

- Site-specific data to ensure it is in alignment for the region and capable of supporting the proposed species for that area.
- Compliance with existing departmental legislation, policy and management plans.
- Ensure the Environmental and Waste Management Plan provided by applicants are in accordance with Environmental and Waste Management Guidance and regulatory requirements.
- Where applicable, ensure aquatic animal health and site restoration plans are in accordance with departmental requirements.
- Ensure incident management plan is in accordance with departmental requirements
- Ensure type, size and amount of gear is appropriate for the proposed farming activity and that all gear fits within site footprint, with adequate mooring scope.
- Ensure site drawings are provided and in accordance with requirements.
- Ensure production plans are achievable given industry standard production parameters in NL.
- Ensure the Production Plan is in accordance with applicable management plans: Code of Containment for the Culture of Salmonids in NL, Bay Management Areas Agreement and the Trout Overwinter Management Plan.
- Ensure stocking densities are appropriate to ensure species welfare and sustainable growing conditions.
- Ensure the business plan is based on technically sound aquaculture practices and that all capital costs and biological assumptions are within industry norms.



- Ensure information in the aquaculture application aligns with the crown lands lease application, where applicable.
- Any other aspect of the proposed operation that will inform review.

4.2 External Review

FFA will engage those regulators having jurisdictional responsibilities over the proposed development. Regulators that may be consulted are listed below in Table 2. It is important to note that this is not a complete list. Depending on the proposed development, FFA may deem it necessary to engage other regulators to inform review.

Table 2: List of Regulators Engaged in Application Review

Provincial Regulators						
Department	Applicable Legislation	Response				
FFA	 Lands Act Fish Inspection Act (Fish Inspection Administration Regulations, Fish Inspection Operations Regulations) Aquaculture Act 	Licence to OccupyLeaseNotice of Assignment and Consent				
Environment and Climate Change	 Water Resources Act Environmental Protection Act (Environmental Assessment Regulations) 	 Water Use Licence Permit to Alter Body of Water Permit for constructing a non-domestic well 				
Municipal and Provincial Affairs	Urban and Rural Planning Act	Recommendation				
Tourism Arts Culture and Recreation	Historic Resources Act	Recommendation				
Federal Regulators						
Department	Legislation	Response				
Fisheries and Oceans Canada	Fisheries Act (Aquaculture Activities Regulations, Aquatic Invasive Species, Species at Risk, Oceans Act)	Recommendation				
TC	Canadian Navigable Waters Act	NPP approval document				
Environment and Climate Control Canada	Canadian Water ActEnvironmental Protection Act	Recommendation				



5. **Public Consultation**

To ensure other resource users and members of the general public have an opportunity to provide comments on a proposed development, applicants are required to conduct a public consultation in accordance with FFA aquaculture policy AP 5 Public Consultation. This consultation effort is separate from the stakeholder consultations conducted in the preparation of the Consultation Report.

6. **Licensing Decision**

Once the application assessment is completed by FFA and all agencies involved, the proposed development, referral responses and public consultation results are reviewed by FFA's Aquaculture Licensing Committee (ALC). Those applicants that are in arrears with the provincial government, or not in good standing with the Registry, will not be considered for licensing.

The ALC provides the Minister with a recommendation on whether the application should be approved, rejected or approved in principle. The Minister will render a decision on the proposed development. If approved, an aquaculture licence containing a suite of terms and conditions is issued. The aquaculture licence, as well as associated formal approvals, will be provided to the proponent. Should the application be rejected, the applicant has the option to appeal the decision in accordance with FFA aquaculture policy AP 45 Appeals Process.

For more information

If you would like further information, please contact the Aquaculture Development Division at (709) 292-4100 or by email at aquaculturelicensing@gov.nl.ca.



ACRONYM LISTING

ALC Aquaculture Licensing Committee

FFA Department of Fisheries, Forestry and Agriculture

NL Newfoundland and Labrador

Registry of Companies

TC Transport Canada



Policy and Guidance Reference

- Aquaculture Policy and Procedures Manual:
 https://www.gov.nl.ca/ffa/files/licensing-pdf-aquaculture-policy-procedures-manual.pdf
- Environmental and Waste Management Guidance:
- https://www.gov.nl.ca/ffa/files/DOC-2022-00210-Aquaculture-applicationguidance-document-Environmental-and-Waste-Management-Plan-Guidelines-2022.pdf
- Aquaculture Operator Incident Reporting Guidelines:
 https://www.gov.nl.ca/ffa/files/21055-Aquaculture-Incident-Reporting-March-25.pdf
- Aquatic Animal Health Division Viral Management of Infectious Salmon Anaemia virus 9ISAv) Contingency Plan Guidelines: https://www.gov.nl.ca/ffa/files/Viral-Managment-of-ISAv-Contingency-Plan-Guidelines-for-Newfoundland-and-Labrador.pdf
- Newfoundland and Labrador Biosecurity Audit Plan Aquatic Animal Health
 Division Guidelines: https://www.gov.nl.ca/ffa/files/Aquatic-Animal-Health-Division-Biosecurity-Audit-Plan-September-2020.pdf
- NL Sea Lice Integrated Pest Management Plan:
 https://www.gov.nl.ca/ffa/files/Newfoundland-and-Labrador-Sea-Lice-Integrated-Pest-Mangement-Plan.pdf
- Newfoundland and Labrador Aquatic Animal Reportable and Notifiable Diseases:
 https://www.gov.nl.ca/ffa/files/Newfoundland-and-Labrador-Aquatic-Animal-Reportable-and-Notifiable-Diseases-September-2020.pdf
- Newfoundland and Labrador Cleaner Fish Surveillance Plan:
 https://www.gov.nl.ca/ffa/files/Newfoundland-and-Labrador-Fisheries-Forestry-and-Agriculture-Cleaner-Fish-Surveillance-Plan.pdf



- Salmonid Code of Containment for the Culture of Salmonids in Newfoundland and Labrador: https://www.gov.nl.ca/ffa/files/DOC-2021-01446-Salmonid-Code-of-Containment-Updated-July-2021.pdf
- AAR Monitoring Standard: https://www.dfo-mpo.gc.ca/aquaculture/management-gestion/doc/AAR-Monitoring-Standard-2018-eng.pdf
- AAR Guidance Document: https://www.dfo-mpo.gc.ca/aquaculture/management-gestion/aar-raa-gd-eng.htm

APPENDIX 1 Application for Aquaculture



1.

The Department of Fisheries, Forestry and Agriculture is committed to protecting personal information, which is being collected in accordance with section 61(c) of the Access to Information and Protection of Privacy Act, 2015 (ATIPPA, 2015) and will be used to assess this Aquaculture Licence Application. It will not be used for any other purposes unless authorized under ATIPPA, 2015.

For Department Use Only							
Receipt Number Receipt Date Receipt Amount Date Application Received Application Num							

In this section, please provi			
Company Name:			
Newfoundland and Labrado	r Company Registration Nur	nber:	
Type of Business: □ Individ	lual □ Partnership □ Com	pany Date Incorporated:	
Address:	City	/Town:	
Province:	Country:	Postal Code:	
Phone #'s: Business:	Cell:	Fax:	
Principal Contact:		Title:	
E-mail Address:			
For Companies and Partners of ownership.	ships, include a separate lis	t of owners showing names, address	ses and percentage

Type of Licence: □ Commercial □ Non-Commercial

2.	Type of application (check one):						
		New site					
		Site expansion (Indicate current aquaculture licence number)					
		Species Add-on					
		Ownership Transition (Indicate current aquaculture licence number and licensee name):					
3.	Type o	f Operation:					
		Finfish □ Shellfish □ Marine Plants □ Fish-out Pond □ Cod Operations					
		Other					
	□ L	and-based					
		Water: □ Freshwater □ Saltwater					
		Facility: Hatchery Nursery Aquaponics Other:					
		Marine					
		 □ Cage Culture □ Suspended Culture □ Bottom Culture □ Closed/Semi-Closed Containment □ Other: 					
		a other.					
Par	t 3 – Specie	es Information					
1	C	a to be Cultural					
1.		s to be Cultured:					
2.	Strain ((if applicable):					
3.	□ Diplo	oid 🗆 Triploid 🗆 Non-applicable 🗆 Other (explain)					
4.	Source of animals/marine plants:						
	a) Applicants own broodstock: □ Yes □ No						
	b) If ye	s, location of hatchery:					
	plants:	, please provide the following information for the supplier(s) of the animals/marine					
	Addres	SS:					
		Location of the Source:					
	Phone						

Part 4 – Site Information

Include site drawings that are in accordance with departmental and Transport Canada requirements. Site drawings must depict the exact location of the site, provide layout details, indicate depth profile (where applicable) and identify infrastructure required for the operation.

1.	Proposed Location:						
	Map Reference Coordinates (Measured at center point of site in decimal degrees):						
	Example: 56 °30′ 30″ would be written as 56.508 °						
	Latitudeº Longitudeº						
2.	Size of site in hectares (if this application is for an expansion to an existing site, please include ON	LY the					
	hectares for the new water): (1 hectare (ha) = 100 metres (m) x 100 metres (m))						
3.	Dimension of Site (if this application is for an expansion to an existing site, please include ONLY th	e					
	dimensions for the new water):m x	m.					
4.	Type of Land Tenure: Crown Land Private Other	_					
5.	Nearest Community:						
6.	Nearest Aquaculture Site:Distance (m)Species						
7.	Indicate the Canadian Shellfish Sanitation Program status (shellfish only) of the site location being	proposed					
8.	Does this site require onshore/nearshore facilities to be constructed? ☐ Yes ☐ No						
	a) If yes, a separate Crown Lands Lease Application will be required in the case of crown land						
	b) Please describe the type of construction and its purpose. Identify the location of the facilit	ies on a					
	map						

Part 5 - Schedules, Plans and Reporting

Applications must include the associated Schedule for the proposed development: see Table 1. The Department of Fisheries, Forestry and Agriculture reserves the right to request additional information that may not be prescribed in any given Schedule. In accordance with the Aquaculture Policy and Procedures Manual (https://www.gov.nl.ca/ffa/files/licensing-pdf-aquaculture-policy-procedures-manual.pdf), various plans and reports are required. Each Schedule identifies the plans and reports that are to be included in an

application package. Guidance material is available to assist applicants in completing applications. For further information, please contact the department.

Table 1

Type of Operation	Schedule Required
Finfish Cage Culture	А
Shellfish	В
Land-Based	С
Fish-out Pond	D
Cod	E
Cleanerfish Species Add-on	F
Closed/Semi-Closed Containment System	G

Part 6 – Application Attestation, Declaration and Consent

Complete and accurate information is important to avoid delays in processing applications. Please review and confirm the following (all boxes must be checked).

- All sections of this form have been completed.
- o For Companies and Partnerships, include a separate list of owners showing names, addresses and percentage of ownership.
- o Crown Lands application is included.
- Proof of ownership, if private land, is included.
- All applicable plans and reports are included, or on-file with the department.
- All applicable plans and reports included contain the most current and up-to-date information.
- Site drawings in accordance with departmental and Transport Canada requirements are included.
- Application and other applicable fees have been paid, as per the Aquaculture Policy and Procedures Manual.
- o Proof of technical capability is included.
- Proof of financial capability is included.

I/We accept and understand that (all boxes must be checked):

- Fees submitted are non-refundable.
- o Applications must be fully completed, and all fees submitted.
- All costs incurred in scoping a site and preparing the application is the responsibility of the applicant.
- The principal contact will be used for all communication and correspondence.
- o The site is not to be occupied until an aquaculture licence has been issued.
- Applicants must be in good financial standing with the Government of Newfoundland and Labrador.
- Applicants, where applicable, must be in good standing with the Registry of Companies.
- o Missing or incomplete information may lead to a delay in processing this application.

- As part of the processing of the application, the Department of Fisheries, Forestry and Agriculture will
 disclose the application as well as applicable application components included to other government
 bodies (provincial and federal). Governing bodies that may be engaged in the review are listed below as
 follows:
 - Department of Environment and Climate Change Water Resources Management Division under Sections 14 and 48 of the Water Resources Act SNL 2002 cW-4.01, either, Marine Aquaculture Water Use Licence/Permit for marine sites, or, Water Use License and Permit for freshwater sites. The need for environmental assessment or other related requirement(s) under the Environmental Protection Act SNL 2002 cE-14.2 will be determined as necessary. Department of Fisheries, Forestry and Agriculture (Newfoundland and Labrador) Crown Lands Branch approval under the Lands Act.
 - Transport Canada approval under the Canadian Navigable Waters Act.
 - Department of Fisheries, Forestry and Agriculture (Newfoundland and Labrador) approval for aquaculture licence under the Aquaculture Act.
 - Fisheries and Oceans Canada.
 - o Other Departments/Agencies, where applicable.

I/We further state: (all boxes must be checked)

- The information provided on this application does not release the applicant from obtaining the necessary approvals from any other Department, Agency or other entity having jurisdiction in relation to the site or activities occurring at that location.
- o I/We certify that the information contained in this application and the attached documents are true and correct in all respects.
- o I/We hereby authorize the Department of Fisheries, Forestry and Agriculture to obtain information concerning my/our financial affairs in relation to this application from the parties noted.

Date	Signature and Title of applicant (Corporations must affix corporate seal)
	(55. por aciono mase anni cor por acc sear)

Complete applications and documents included are to be submitted to aquaculturelicensing@gov.nl.ca
If you have any questions, please contact the department at (709) 292-4100.

APPENDIX 2 Schedules



Schedule A: Finfish Cage Culture 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 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	 Baseline Survey Report
Amendment	 Business Plan (Commercial)
	 Consultation Report
	 Environmental and Waste Management Plan
	Fish Health Management Plan (includes Biosecurity and
	Integrated Pest Management Plan
	Incident Management System PlanProduction Plan
	Site Restoration Plan
	Project Plan (Non-Commercial)
	o i foject i fair (Nori-Confiniercial)
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)
	o Production Plan
	 Updated Management Plans

Part 2: Development / Production Plan

In Table 2, record the following information:

- 1. From start-up to full operation, in Table 2 indicate:
 - a) the estimated month and year stock will be introduced;
 - b) the expected number of smolt/fingerlings/fry to be stocked
 - c) the grow-out period;
 - d) the average individual fish weight at the start and the end of grow-out;
 - e) the expected losses over grow-out period; and
 - f) the final production quantity at the end of growth period.

Table 2

5.

6.

7.

I able 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. Inc	2. Indicate the expected maximum stocking (rearing) density kg/m³							
3. Inc	3. Indicate if broodstock will be reared. □ Yes □ No							
a)	a) If yes, state approximate number and weightkg.							
4. If I	4. If broodstock are stripped, where will egg incubation occur?							

In what year do you anticipate to reach peak production?____

Indicate anticipated harvest for this site at peak production.____kg.

In Table 3, indicate the number and type of net cages proposed for each year.

٦	Га	h	ما	2

Year/Month	Type of Cage and Mesh Size	Net Length	Number of Cages	Holding Capacity (cubic meters, m³)
	_			
xample:		<u> </u>		l
2021/05	140 m HDPE Circular Cages 36 mm HDPE 3.1 mm	20	10	390,000 m³
Specify	the type of feed to be	used (e.g. mois	st, dry, silage	based, other).
. Descril	oe the method of feed a	administration (e.g. by hand,	auto feeders, etc.).
Describ	oe the method of feed a	administration (e.g. by hand,	auto feeders, etc.).

10. 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)

11.	What is the annual feed consumption?	kg
12.	Describe in detail, the methods that will be adopted as the use of feed tables, calculations to optimize form over another, feed cameras or other electron frequency of monitoring), pellet size, etc.	e feed use, the use of one feed
13.	A fallow period is required. Describe the rotation the licensed site locations where fish (if not being during this period. Indicate on a map the area to	g harvested) are to be stocked
	3: Site Suitability proposed development is a species add-on or se continue to Part 5 of the application.	a Change of Ownership,
1.	Indicate if site assessments have been complete □ Yes □ No	ed to demonstrate site suitability.
	 a) If yes, please list the reports (e.g. site suitabil environmental data collection, etc.) and ensu application package. 	•
2.	Describe any fishing activities (e.g. commercial, fisheries), tourism operations, cabins, recreation water skiing, swimming, etc.) or industrial facilitie located within a 2km radius of the site lease bou the activities time(s) of operation and proximity to	al activities (e.g. boating, diving, es, and water uses that are ndary. Provide information on

develop	potential impacts other resource users may have on the proposed ment, if applicable. Include the measures to be established to mini I interactions and possible negative impacts by other resource use
users di	any potential impacts the proposed operation will have on other resuring the development phase of the project and while it is in operatiole. Provide details on the measures to be established to minimize

Complete either Section A if applying for a salt water cage operation or Section B if applying for a fresh water cage operation.

Section A: Site Suitability for Salt Water Cage Operation

Temperature Salinity Profile

Record temperatures and salinity at the indicated depths.

	Spring		Summe	er	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						
Bo les me						
3.	Identify the minimum v	•	elow the botto depth on a cro		_	
3.	Exposure to wind and	waves:				
	a) Maximum fetch:	kilo	meters Direc	ction:		
	b) Prevailing wind dire	ction:				
	SpringS	Summer	Fall _		Winter	
	c) Maximum wave heig	ght:	mete	ers.		
Sec 1.	tion B: Site Suitability fo Water Quality Determine the levels o				osed site at a	denth
	of one meter.		g parametere			
	Parameters Values	Spring	Summer	Fall	Winter	
	Dissolved Oxygen mg/l)					
	Total Alkalinity (mg/l)					
	Hardness (as Calcium Carbonate) (mg/l)					
	Ammonia (mg/l)					
	 bH					
1	Temperature (°C)					
2.	Dimensions of Lake					
	a) Overall area of lake	:	hectares.			

b) Average depth of lake: metres.		
c) Maximum depth of lake: metres.		
Minimum water depth below the bottom of the net cages _ Include this depth on a cross-sectional drawing of the site		
Exposure to wind and waves:		
a) Maximum fetch: kilometers Direction:		
b) Prevailing Winds:		
Spring Summer Fall	_ Winter	
c) Maximum wave height: metres.		
Indicate the prevailing storm wind direction. Label this wir	nd on a map.	
4: Sustainability of Wild Salmon		
Provide on a map the location of wild salmon rivers in the proximity to the proposed operation.	region and their	
Provide details regarding measures to be established to s wild salmon (e.g. containment measures, traceability, con within the vicinity of the proposed operation.		
•		
		_
		_
Provide details regarding any salmon recovery or restorat planned or established in the region of operation and how operation may interact with these efforts.		
planned or established in the region of operation and how		
planned or established in the region of operation and how		

Part 5: Economic Development

1.	Provir poten demo and ir acces disabi	nce. Include the tial direct and in nstrates the important incluses the modern and incluses the miles, visible mi	e socio-economi ndirect spin-off ir pacts and scale nent creation and sive of all gendel	c benefits, suppled by the control of the control o	evelopment to the y and service opportunities, her relevant information that this response, include direct ments that must be eoples, persons with tify if employment expertise	t
2. T ah	the pr emplo	oposed develor syment and if po	oment for the ne	xt three years. I the types of posi	eation that will result from dentify duration of tions (e.g. managerial,	•
Tab	16 5	Nui	mber of Employ	vees		
	Year	Full Time	Part Time	Seasonal	Type of Position	
3.				and level of skill this has been d	is available to operate the etermined.	
						-
4.		-			in the labour supply, be established to address.	



Schedule B: Shellfish 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	Business Plan (Commercial)
Amendment	 Consultation Report
	 Environmental and Waste Management Plan
	 Fish Health Management Plan (includes Biosecurity)
	o Incident Management System Plan
	o Production Plan
	o Project Plan (Non-Commercial)
Species Add-on	 Business Plan (Commercial) if existing plan does not
	accommodate the proposed add-on
	o Project Plan (Non-commercial)
	o Production Plan
	 Updated management plans
Change of Ownership	 Business Plan (Commercial) if existing plan does not
	accommodate the transition
	o Project Plan (Non-Commercial)
	o Production Plan
	 Updated management plans

Part 2: Development / Production Plan

Complete the sections that are applicable to the proposed development.

Section A1: Collection of Blue Mussels

1.	Are you collecting seed to sell to other gro	wers?	□Yes	□ No
2.	Indicate the collection system to be used:	□ Individua	al collector	□ Continuous

	Provide the length of the collec	ioi baseu	on conecin	on system	to be used	•
	a) Individual collector:	r	netres			
	b) Continuous:	metres				
4.	Indicate the average length of	mainlines f	or collecto	rs:	metre	es.
5.	Indicate the distance between	collector m	ainlines: _		metre	es.
6.	Provide the production plan for	blue muss	sel collection	on in Table	e 2.	
Tabl	e 2					
Yea	ar					
Nu	mber of collectors to be set					
Nu	mber of mainlines to be used					
Sect	tion A2: Collection of Scallops					
1.	Are you collecting seed to sell	to other gr	owers?	□ Yes	□ No	
2.	Indicate the average length of	mainlines f	or collecto	rs:	metr	es.
3.	Indicate the distance between	collector m	ainlines: _		metre	es.
				-		
4.	Provide the production plan for	scallop co	llection in	Table 3.		
4.	Provide the production plan for	scallop co	illection in	Table 3.		
		scallop co	illection in	Table 3.		
Tabl	e 3	scallop co	ellection in	Table 3.	Ι	
Tabl Yea	e 3 ar	scallop co	ellection in	Table 3.		
Tabl Yea Nu	e 3 ar mber of collectors to be set	scallop co	llection in	Table 3.		
Tabl Yea Nu	e 3 ar	scallop co	llection in	Table 3.		
Tabl Yea Nu	e 3 ar mber of collectors to be set	scallop co	llection in	Table 3.		
Tabl Yea Nui Nui	e 3 ar mber of collectors to be set			Table 3.		
Tabl Yea Nui Nui	e 3 mber of collectors to be set mber of mainlines to be used	callops or			□ Oyster	

_			
T_{2}	h	\sim	
	U		-

Year/Month		Gear Type*	Number Per Unit System	Total Number of Animals
*Gea	r Type : Pea	arl Nets, Lanter	n Nets, Racks, Baskets, Trays	s, Other (please specify)
3.	Will the pr	oposed specie	s be sold at this stage?	□Yes □No
	a) If yes,	provide approx	imate shell length.	centimetres.
1.	Indicate th	ne maximum es	eduction: Blue Mussels etimate which could be harves kilograms.	ted from the site when it is
2.	•	•	ase seed for grow-out? sed for initial start-up only or fo	
3.			production cycle (from the tinmonths.	ne the seed is socked to
4.	Type of pr	oduction syste	m to be utilized: □ Individual :	Socks □ Continuous
5.	a) Individ	ual Socks:	th based on the production sy metres loops):me	
5.	Indicate th	ne anticipated y	ield per meter:	kilograms.
6.	Indicate th	ne distance bet	ween mainlines	metres.
7.	Provide th	e average leng	th of mainlines for socks:	metres.
8	Complete	Table 5		

a	_	\sim	-
•	~	•	•

Year			
Amount of socking to be filled (metres)			
Number of mainlines to be used			
Production (kilograms)			

Section C2: Grow-out and Production: Scallops or Oyster

1.	Identify t	the prop	posed s	pecies:	□ Scallo	os 🗆 O	yster

2. Provide final grow-out details for the proposed species in Table 6.

Table 6

Year/Month	Gear Type*	Density per unit system	Number of Animals

^{*} Gear Type: Pearl Nets, Lantern Nets, Racks, Baskets, Trays, Other (please specify)

3. Provide production estimates that are applicable to the proposed species in Table 7. Note: Projections are to begin with first year of harvest.

Table 7

Product Type	Average	Production (kilograms)				
	Number per kilograms	Year 1	Year 2	Year 3	Year 4	Year 5
Meats						
Meat with Roe						
Whole/Live						
Other						

Part 3: Site Suitability

If the proposed development is a species add-on or Change of Ownership, please continue to Part 4 of the application.

	dicate if site assessments have been done to demonstrate site suitability. ∕es □No
a)	If yes, please list the reports (e.g. site suitability studies, profiling, environmental data collection, etc.). Ensure reports are included with the application package.
	dicate if the proposed site, or portion(s) of, have been closed due to the esence of toxins. □ Yes □ No
a)	If yes, provide the year:
WI	hat is the prevailing storm wind direction? Label this wind on a map.
loc	ater skiing, swimming, etc.) or industrial facilities, and water uses that are cated within a 2km radius of the site lease boundary. Provide information on a activities time(s) of operation and proximity to the site.
de	entify potential impacts other resource users may have on the proposed velopment, if applicable. Include the measures to be established to minimize tential interactions and possible negative impacts by other resource users.

6.	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.					
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 8, identify direct and indirect employment creation that will result from					
۷.	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.).					
Tabl	e 8					
	Number of Employees					

	Num	ber of Employ		
Year	Full Time	Part Time	Seasonal	Type of Position





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	Business Plan (Commercial)
Amendment	 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	 Business Plan (Commercial) if existing plan does not
	accommodate the proposed add-on
	Project Plan (Non-Commercial)
	o Production Plan
	 Updated management plans
Change of Ownership	 Business Plan (Commercial) if existing plan does not
	accommodate the transition
	Project Plan (Non-commercial)
	o Production Plan
	 Updated management plans

Part 2: Development/Production

1.	Complete the areas that apply to the proposed operation. Label the equipment on site layout diagrams.
	Incubation units:

Number _____Egg Total ____

	Larval T		Tot	al Water Cap	acity		
	Tanks:	lumber	Tot	al Water Cap	acity		
	Racewa N		Tot	al Water Cap	acity		
	•	ankton Tan lumber		al Water Cap	acity		
2.	a) estin b) anim c) num d) estin e) avera f) expe	nated year all stage to ber to be sinated growage final wested losses	and month to be stocked tocked; th period in eight; s over the gr	please indicathe animals was (eggs, larvae months; rowth period; end of the gre	rill be stocke e, or juvenile and	ed; s);	
Гablе	2				_	1	
Yea	r/Month	Animal Stage	Stocking Number	Growth Period (months)	Average Final Weight (kg)	Expected Losses (%)	Expected Production (kg)
3.	Schedul	e of Produ	ction:				
	Month a	nd Year th	e starting st	ock will be int	roduced		
	Month a	nd Year th	e facility will	be in full pro	duction		
	Amount	of producti	ion at full ca	pacity		kilograr	ns

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

Table 3

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 Fee	ed Amount (kg)
6.	Indicate the type o	f feed to be used		
7.	Indicate if automat	ic feeders will be used.	□Yes	□No
8.	Indicate if a feed-fi	ne recovery system will be use	ed. □Yes	□No
9.	Silage or other fee	d 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

Name the source body of water		
Does the water source have a disease profile?	□Yes	□No
a) If yes, identify the source of information.		
Indicate if the facility will be a flow-through system. a) If no, please provide details on recirculating facility.	□Yes	□No
a) If the, please provide details of recirculating facility.		
Describe filtration disinfection system to be used, if app	olicable.	
Indicate the intake rate:I	litres/day	
Indicate the maximum and minimum depth of intake:		
a) Maximummetres b) Minimummetres		
Indicate the depth of discharge:	metre	es

9.	Indicate the discharge rate:	litres/day
10.	Indicate the intake and/or outlet grid size:	
11.	Indicate the distance from discharge to nearest aquac kilometers	ulture facility.
12.	Describe the wastewater treatment method.	
13.	Indicate if the water quality parameters fall within the value for the proposed species? □Yes □No	vater quality requirements
	a) If no, indicate how the water quality parameters will accepted requirements for the species?	ll be brought within
Sec	ction B: Site / Water Suitability for Freshwater Opera	tion
1.	Indicate the water supply type:	□ 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:	

	ply, does the water source have a disease profile? □Ye
a) If yes, identify the	ne source of information.
Indicate if the facili	ry will be a flow-through system. □Yes □No
	ovide details on recirculating facility.
b) ii iio, picace pic	The detaile on recirculating facility.
Describe filtration of	lisinfection system to be used, if applicable
Describe filtration of	lisinfection system to be used, if applicable.
Describe filtration o	lisinfection system to be used, if applicable.
Describe filtration o	lisinfection system to be used, if applicable.
Describe filtration o	lisinfection system to be used, if applicable.
Describe filtration o	lisinfection system to be used, if applicable.
	lisinfection system to be used, if applicable. rate:litres/day
Indicate the intake	
Indicate the intake	rate:litres/day ter, indicate the maximum and minimum depth of intake:
Indicate the intake	rate:litres/day ter, indicate the maximum and minimum depth of intake: metres
Indicate the intake If using surface wa a) Maximum b) Minimum	rate:litres/day ter, indicate the maximum and minimum depth of intake: metres
Indicate the intake If using surface wa a) Maximum b) Minimum	rate:litres/day ter, indicate the maximum and minimum depth of intake:metres _metres
Indicate the intake If using surface wa a) Maximum b) Minimum Identify where the	rate:litres/day ter, indicate the maximum and minimum depth of intake:metres _metres water will be discharged to:

	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 facilitykilometers
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				
рН				
Hydrogen Sulphide (mg/l)				
Temperature(°C)				

De	escribe the wastewater treatment method.
	dicate if the water quality parameters fall within the water quality requireme r the proposed species? □Yes □No
b)	If no, indicate how the water quality parameters will be brought within accepted requirements for the species?
_	
lde	entify an alternative water source if the primary source fails.
_	
Ind	dicate 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.

the p empl	roposed develop	oment for the ne ossible, provide t	xt three years. In	eation that will result from dentify duration of tions (e.g. managerial,
able 5				
Year	Full Time	mber of Employ Part Time	/ees Seasonal	Type of Position
rear	T dil Tille	1 dit Tille	Jeasonai	Type of Fosition
	ate if the require			is available to operate the
	osed developme	nt. Explain how	this has been do	etermined.
	•	nt. Explain how	this has been de	etermined.
properties of the properties o	e event the requi	red skill-set is no	ot available withi	n the labour supply, e established to address.
properties of the properties o	e event the requi	red skill-set is no	ot available withi	n the labour supply,



Schedule D: Fish-out Pond 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	 Baseline Survey Report
Amendment	 Business Plan (Commercial)
	 Consultation Report
	 Environmental and Waste Management Plan
	 Incident Management System Plan
	o Production Plan
	 Project Plan (Non-Commercial)
Species Add-on	 Business Plan (Commercial) if existing plan does not
	accommodate the proposed add-on,
	o Production Plan
	Project Plan (Non-Commercial)
	 Updated management plans
Change of Ownership	 Business Plan (Commercial) if existing plan does not
	accommodate the transition,
	o Production Plan
	Project Plan (Non-Commercial)
	○ Updated management plans

Part 2: Development / Production Plan

1. List the overall dimensions of all planned structures and their completion times in Table 2 (see example below).

Table 2

Description	Number	Dimensions (m) L x W x D	Volume (m³)	Completion Date

Fish-out Pond	1	20 m x 10 m x 2 m	2100 m ³	May 2021
Fish-out Pond	1	40 m x 15 m x 3 m	1800 m ³	June 2021
Canteen/Takeout	1	10 m x 5 m	50 m ²	July 2021

- 2. For anticipated full operation, indicate in Table 3:
 - a) the estimated year and month stock will be introduced;
 - b) the expected number of fish to be stocked;
 - c) the growth period;
 - d) the average individual fish weight at the start and when fish are ready to be sold:
 - e) the expected losses over growth period; and
 - f) the final production quantity at the end of growth period.

Table 3

Year/ Month	Stocking Number	Grow-out Period (months)	Avg. Start Weight (kg)	Avg. Final Weight (kg)	Expected Losses (%)	Expected Production (kg)
Example 09/21	5000	100 grams	400 grams	18 months	10%	

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

8.

r/Month	Species Biomass (kg)	Monthly Feed Amount (kg)
What is the annual	feed consumption?	kg
Specify the type of t	feed to be used (e.g. moist, o	dry, silage based, other).
Describe the metho	d of feed administration (e.g.	. by hand, auto feeders, etc.).
such as the use of f feed form over anot	eed tables, calculations to op her, feed cameras or other e	•
(including frequency	y or morntoning), peliet size, t	
(including frequency	y of morntoffing), peliet size, e	
(including frequency	y of monitoring), peliet size, e	

Indicate the expected maximum stocking density. _____ kg/m³

Part 3: Site Suitability If the proposed development is a species add-on or Change of Ownership, please continue to Part 3 of the application

Section A: Site Information

1.	Is the pond natural or man-made?							
2.	Indicate if site assessments have bee □Yes □No	n done to demo	nstrate s	ite suitability.				
	 a) If yes, please list the reports (e.g. site suitability studies, profiling, environmental data collection, etc.) and ensure they are included in the application package: 							
3.	Name the source of water.							
4.	Is the proposed pond gravity fed?		□Yes	□No				
5.	Is the proposed pond spring fed?		□Yes	□No				
6.	Will water be diverted from an existing	source?	□Yes	□No				
7.	Does this source of water flow year ro	und?	□Yes	□No				
8.	Indicate the minimum litres/minute of	water source.						
	Spring litres/minute Fall litres/minute	Summer Winter		litres/minute litres/minute				
9.	Does the water source have a disease profile? □Yes □No							
	If yes, identify the source of information.							
10.	Intake grid size (if applicable):							

Note: Department of Fisheries and Oceans Canada may require installation of intake and outlet screens.

11.	Water will be discharged to:							
	□ lake	□ stream						
	□ municipal sewer	□ on site waste disposal system						
	□ other, please describe							
12.	Indicate the name of receiving water body.							
13.	Indicate the discharge volumelitres/day							
14.	Provide the outlet grid size							
Secti	on B: Water Quality							
1. De	etermine the seasonal leve	els of the following	g parameters:					
Pai	rameters Values	Spring	Summer	Fall	Winter			
Dis	ssolved Oxygen (mg/l)							
Tot	tal Alkalinity (mg/l)							
	rdness (as Calcium rbonate) (mg/l)							
Am	nmonia (mg/l)							
рН								
Tei	mperature (°C)							
2.	Does the water source p	rovide for future e	expansion? □Ye	es □No				
3.	Dimensions of pond:							
	a) Overall area of pond: b) Average depth of pond: Maximum depth of portage.		hectares. metres. metres.					

4.	Indicate if the water quality parameters fall within the water quality requirements of the species to be held. □Yes □No
	a) If no, how do you propose to bring water quality parameters within accepted requirements for the species?
5.	What provision has been made for aeration?
6.	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.
7.	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.
8.	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.

Part 3: Economic Development

1.	Provide an overview of the benefits of the proposed development to the Province. Include the socio-economic benefits, supply and service opportun potential direct and indirect spin-off industries and other relevant information demonstrates the impacts and scale of benefits. For this response, include 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 expeavailability is local and/or national/international.				
2. -	the pr emplo super	oposed develor syment and if po	oment for the ne	xt three years. I the types of posi	eation that will result from dentify duration of tions (e.g. managerial,
Table	5	Nin	mber of Employ	1000	
Year	•	Full Time	Part Time	Seasonal	Type of Position
3.				and level of skill this has been d	is available to operate the etermined.
4.					n the labour supply, se established to address.



Schedule E: Cod 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 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	 Baseline Survey Report
Amendment	 Business Plan (Commercial)
	 Consultation Report
	 Environmental and Waste Management Plan
	 Incident Management System Plan
	○ Production Plan
	Project Plan (Non-Commercial)
Species Add-on	 Business Plan (Commercial) if existing plan does not
	accommodate the proposed add-on,
	○ Production Plan
	Project Plan (Non-Commercial)
	 Updated management plans
Change of Ownership	 Business Plan (Commercial) if existing plan does not
	accommodate the transition,
	○ Production Plan
	 Project Plan (Non-Commercial)
	 Updated management plans

Part 2: Development / Production Plan

In Table 2, record the following information:

- 1. From start-up to full operation, in Table 2 indicate:
 - a) the estimated month and year stock will be introduced;
 - b) the expected number of animals to be stocked;
 - c) the growth period;
 - d) the average individual fish weight at the start and the end of growth;
 - e) the expected losses over growth period; and
 - f) the final production quantity at the end of growth period.

Table 2

6.

Ye Mo		Stocking Number	Growth Period (months)	Avg. Start Weight (kg)	Avg. Final Weight (kg)	Expected Losses (%)	Expected Production (kg)
Exam	ple	_	_				
2021	/05	1,000,000	28	0.25 kg	5.95 kg	10%	5,652,500 kg
1.	Fishe	ries Identific	ation Numb	er (where a	pplicable):		
2.	Indicate the expected maximum stocking (rearing) density kg/m³					kg/m³	
3.	Indicate if broodstock will be reared. □ Yes □ No						
	a) If yes, state approximate number and weight:kg					kg	
	b) If broodstock are stripped, where will egg incubation occur?						
4.	In what year do you anticipate to reach peak production						
5.	Indica	Indicate anticipated harvest for this site at peak productionkg					

In Table 3, indicate the number and type of net cages proposed for each year.

٦	Гa	h	l۵	1
		L		

Year/Month	Type of Cage and Mesh Size	Net Length (m)	Number of Cages	Holding Capacity (m³)
Example 2021/05	140 m HDPE	20	10	390,000 m ³
202 1/03	Circular Cages 36 mm HDPE 3.1	20	10	390,000 111
	mm			
. Specify	the type of feed to be	used (e.g. mois	st, dry, silage	based, other).
. Specify		used (e.g. mois	st, dry, silage	based, other).
. Specify		used (e.g. mois	st, dry, silage	based, other).
. Specify		used (e.g. mois	st, dry, silage	based, other).
	the type of feed to be			
	the type of feed to be			

9. 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)

10.	What is the annual feed consumption?kg
11.	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 3	3: Site Suitability
	proposed development is a species add-on or a Change of Ownership osal, please continue to Part 4 of the application.
1.	Indicate if site assessments have been completed to demonstrate site suitability. $\hfill \Box$ Yes $\hfill \Box$ No
	a) If yes, please list the reports (e.g. site suitability studies, profiling, environmental data collection, etc.) and ensure they are included in the application package.
3.	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.

4.	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.
5.	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.
6.	Identify the minimum water depth below the bottom of the net cages at low tide. metres. Include this depth on a cross-sectional drawing of the site.
7.	Exposure to wind and waves:
	a) Maximum fetch: km Direction:
	b) Prevailing wind direction:
	Spring Summer Fall Winter
	c) Maximum wave height meters
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

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

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	1 11 3/	ne required labour supple evelopment. Explain ho	•	•
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	1 11 3/			
1 11 97	1 11 2/			



Schedule F: Cleanerfish Species Add-on

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 for the Cleanerfish Species Add-on. Applicants are encouraged to consult an Aquaculture Development Officer when preparing application packages.

Table 1

Type of Development	Plans and Reports Required
Species Add-on	 Business Plan (Commercial) if existing plan does not
	accommodate the proposed add-on
	o Production Plan
	o Project Plan (Non-Commercial)
	 Updated management plans

Part 2: Development/Production

- 1. In Table 2, record the following information:
 - a) the estimated month and year stock will be introduced;
 - b) the expected number of cleanerfish to be stocked;
 - c) the growth period;
 - d) the average individual fish weight at the start and the end of growth period;
 - e) the expected losses over growth period; and
 - f) the final production quantity at the end of the growth period.

Table 2

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

2.	Expected maximum	stocking (rearing) density:	kg/m³
3.	State the targeted ra	atio of cleanerfish to salmon:_	
4.	Specify the type of f	eed to be used (i.e. moist, dry	, silage based, other).
5. -	planned amounts to	he feed schedule for the entire be used.	e growth cycle. Include
Table Yea	e 3 r/Month	Species Biomass (kg)	Monthly Feed Amount (kg)
			, , , ,
6.	Provide the annual t	eed consumption:	kg
7.	Describe the method	d of feed administration (e.g. k	by hand, auto feeders, etc.).
8.	as the use of feed to feed form over anot	ne methods that will be adopte ables, calculations to optimize her, feed cameras or other ele of monitoring), pellet size, etc	ctronic feedback systems

Part 3: Site Suitability

	e details regarding the environmental conditions onsite appropriate for inducive to, utilizing the proposed species.
	annual basis, indicate the anticipated additional waste in tonnes resu ne introduction of the proposed cleanerfish (BOD as well as mortality)
contair	e details regarding methods to promote fish welfare for any cage ment system modification that may be required for the proposed rfish species (e.g. hides).
Provide cleane	e details regarding any additional onsite operational procedures spec rfish.
Indicat	e how the cleanerfish stock performance will be monitored and evalu

	applicable, provide details regarding the potential risks to the site by the croduction of cleanerfish.
_	
_	
ha	hat will be the end use/destination of the cleanerfish once the site is to be arvested? If the cleanerfish are destined to be slaughtered along with the arvest, how will they be humanely euthanized?
	il vest, now will they be numaricly eathamized:
_	Trest, now will they be numaricly eathanized:



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	 Baseline Survey Report
Amendment	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)
	o 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:

Indicate the maximum stocking density for the proposed technology as specified by the manufacturerkg/m³
Is the containment system closed or semi-enclosed?
Indicate if proposed technology been used for this purpose before. A 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.
Provide the dimensions of the containment system.
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.
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; andf) 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 fe	eed to be used (e.g. moist, d	ry, silage based, other).	_				
5.	Describe the method	d of feed administration.		_				
6. Table	In Table 3, provide the feed schedule for the entire growth cycle. Include planned amounts to be used.							
	/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		Summ	er	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)				
рН				
Temperature (°C)				

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 intakemetres				
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.

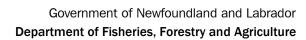
3.	Provide details regarding any salmon recovery or restoration efforts that are planned or established in the region of operation and how the proposed operation may interact with these efforts.
Part	6: Economic Development
1.	Provide an overview of the benefits of the proposed development to the Province. 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

	Nui	mber of Employ		
Year	Full Time	Part Time	Seasonal	Type of Position

	if the required labour supply and level of skill is available to o d development. Explain how this has been determined.	perate
In the ex		a la la c
	rent the required skill-set is not available within the labour sup any training plan and/or other measures to be established to	

APPENDIX 3 Consultation Report





Consultation Report

Aquaculture licence applicants are required to conduct consultations with other resource users that may be impacted by the proposed development. Submission of a Consultation Report is a required component as part of an aquaculture licence application package for new or site boundary amendment proposals. Include in the application a Consultation Report that provides the following information:

- Name of the organization consulted: include names of those members.
- Names of individuals consulted and the sector they represent.
- Method of communication (i.e. Town Hall meeting, in-person meeting, telephone call, etc.)
 - If a meeting was conducted, provide the location of meeting(s) that were held.
- Date(s) of communication.
- Overview of the concerns raised and how the applicant will mitigate.
- Details of discussions including any compromise or adjustments made as a result of the consultation.
- Any other information that may be relevant to the application.

APPENDIX 4 Fee Schedule

Aquaculture Licensing Fee Schedule

Activity	Name of Fee	Responsible	Fee
New Licence			
Application Fees			
	Aquaculture Licence Application Fee -		
	Finfish	FFA	\$145/hectare
	Aquaculture Licence Application Fee -		
	Finfish Other	FFA	\$1,000
	Aquaculture Licence Application Fee –		
	Shellfish	FFA	\$500
	Crown Lands Application Fee	FFA	\$150 (+HST)
	*Water Use Licence	ECC	\$400 (+HST)
	Title Document Preparation for Crown		
	Lands Lease fee	FFA	\$300
Change of			
Ownership Fees			
o micromp r ces	Aquaculture Licence Application Fee -		
	Finfish	FFA	\$145/hectare
	Aquaculture Licence Application Fee -	1177	φιτοπισσιαίο
	Finfish Other	FFA	\$1,000
	Aquaculture Licence Application Fee –	11.6	\$1,000
	Shellfish	FFA	\$500
	Crown Lands Notice of Assignment Fee	FFA	\$200
	*Water Use Licence	ECC	\$400 (+HST)
Annual Licence Fees	NW - 2000	7/2-2000	
	Finfish	FFA	\$145/hectare
	Finfish Other	FFA	\$1,000
	Shellfish	FFA	\$500
	Crown Lands Annual Rental Fee	FFA	\$8/hectare
	*Water Use Charge (Marine)	ECC	\$1,000
	*Water Use Charge (Freshwater)	ECC	\$10,000
	*Water Use Charge (\$5 per		
	1,000 m3 licensed and used plus \$0.50		
	per 1,000 m ³ licensed but not used)	ECC	
Consider Add			
Species Add-on Fees	Species Add-on fee – Finfish	FFA	\$1,000
	Species Add-on fee - Shellfish	FFA	\$500
	Opolica Add-off fee - Offellian	117	Ψ500
Site Boundary Amendment Fees	Refer to New Licence Application Fees		

^{*}Water Use Licence and Water Use Charge Fees do not apply to shellfish aquaculture.

Other provincial and federal costs that may be associated with aquaculture are not included.

Agency