# **Referral Memo**

Date: January 18<sup>th</sup>, 2013 To: SQCRD Board From: Joan Merrick, CAO

Regarding: Crown Land Application Request # 61614574-006

**Location:** Near Legace Island

**Deadline for response**: APC – January 9<sup>th</sup>, 2013 for APC to respond to the Regional District

RD – January 17<sup>th</sup>, 2013 to respond to Province (extension to January 21<sup>st</sup>

requested)

Request Received by RD – December 17, 2012

Summary of the Referral:

Applicant: Haida Enterprises Corporation

Tenure Type: License of Occupation

Purpose: Shellfish Aquaculture – Deep water and suspended

Size: 96.97 HA +/-

Term: 5 years

**Comments from APC or Other Agencies:** The GIAPC did not provide any comment, however one member comment that he did not personally have any concerns.

#### **Staff Comments:**

There are now two provincial foreshore applications from Haida Ent. to allow for shellfish aquaculture, one outside of Sandspit and one Kagan Bay.

Zoning and OCP: In order to comply with the Graham Island OCP, an application for rezoning is required (See Consultants comments as attached)

#### Attachments:

Application 21 pages
 Maps 2 page
 Other 5 pages

#### Pacific Shellfish Aquaculture Application – Referral # 61614574

Applicant: Haida Enterprise Corporation

Location: Skidegate Inlet, Legace Island, Kagen Bay – 96 hectares – to the east are Burnt and Claudet Islands

Affected by Graham Island OCP – Schedule B: OCP Planning Area shows the boundaries extending into the water to take in this area.

Policy 12 on page 29 (under Marine and Shoreline Ecosystems) states that Shellfish farming for moluscs (mariculture) is supported where it can be demonstrated that there will be no adverse environmental impact. Any proposal to establish mariculture rearing and harvesting operation in the planning area shall be subject to rezoning and shall not be permitted in areas that are:

- a. traditionally used for recreation or for moorage of local vessels or for the landing of seaplanes;
- b. in front of a residential neighborhood; or
- c. environmentally sensitive to such development.

The zoning boundary for the foreshore adjacent to Graham Island does not appear to extend to include this area. There does not appear to be any default provisions for zoning for unmapped areas – therefore unmapped areas are not zoned for any use, and any use could be possible.

However, given Policy 12 in the OCP, a rezoning should occur for compliance with the OCP. On page 8 of the application to the Government of Canada, the applicant indicates that the proposal complies with approved local government bylaws for land use planning and zoning. The applicant should be advised that to comply with the Graham Island OCP, an application for a rezoning is required.

The Resource Conservation District – the RS-1 zone applies to other Graham Island foreshore areas and could be used for the subject application. The RS-1 zone permits agriculture, and the definition of agriculture was amended in 2000 by Bylaw 397 to include mariculture which is defined to be the culture or controlled growing of marine (saltwater) organisms, excluding finfish.





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FOR INTERNAL USE					
Project Number:	103892	Client Number:			

### PACIFIC SHELLFISH AQUACULTURE APPLICATION

Ministry of Forests, Lands and Natural Resource Operations Fisheries and Oceans Canada **Transport Canada** 

### PART I - GENERAL APPLICANT INFORMATION

#### SECTION A: APPLICANT AND GENERAL INFORMATION

1.	Applicant Name(s) (Full Legal Name(s) or Registere Name)	d Company	Applicant Business Information: Telephone: (778 ) 260-0043			
	Haida Enterprise Corporation	Cell: ( 604 ) 763-1844 Fax: ( 800 ) 930-2118 Email: info@haico.ca				
2.	Applicant Business Mailing Address: PO Box 1384, Unit 3, Commercial Center, Skidegat	Postal Code:				
3.	Doing Business as: Haida Enterprise Corporation	4. BC	4. BC Inc #, BC Registration # or BC Society #			
5.	Physical Business Address (if different from above):					
6.	Contact Name (if different from above): Blake Barton	Contact Business Information: Telephone: (778) 260-0044 Cell: (778) 260-0044 Fax: ( ) Email: blake.barton@haico.ca				
7. /	Agent/ Representative (if applicable):	Agent/Ro Telephol Cell: ( Email:				
8. [	Business Mailing Address of Agent/Representative:		Postal Code:			
	DECEIVED NOV 13 2012	Le	etter of Authorization:   Yes   No			
	Ministry of Forests, Lands & Natural Resource Operations West Coast Service Centre					





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9. Type of Application:								
New site	Tenure Type:	☑ Licence of Occupation	n 🗆 Lease	☐ Investigative Permit				
Amendment Type:  Tenure Area Infrastructure Production Species Other (Describe)	(required only for ty	rently Approved  ired only for type of amendment applied for, th additional page if necessary)						
☐ Licence Holder Change	Current Licence	Current Licence Holder Name:						
10. Government Reference I BC Land File # (Crown land)	444	uaculture Licence #	NWPA #					
OR Park Use Permit # (Park/Protected land)	AND Site Ref	erence #	Parcel Ide (Private land	entification # d)				





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### SECTION B: SITE AND INFRASTRUCTURE INFORMATION

Provincial Crown I	and	☐ Pr	ovincial Park	☐ Private Land
☐ Federal Land		☐ Fit	rst Nation Reserve	☐ Other
. Geographic location	of site: Skidega	ate Inlet	, Haida Gwaii, BC	
. Site Common Name				
. DFO Area: 2				
				290101
			Marine Chart Number:	309101
Topographical Map I	Number: 103F0	)1		
. If the site is surveyed	d, give legal desc	ription	of site (e.g., Land Distric	ct and Lot Number):
*				
-				
. If the site is not surv	reyed, provide m	etes an	d bounds description fro	om a surveyed point or
			d bounds description fro	
geographic coordina	ate:			
geographic coordinates	ding 1200m Sout			
geographic coordina	ding 1200m Sout			
geographic coordinates	ding 1200m Sout			
Rectangle exten N 53-12-59.52, N	ding 1200m Sout N 132-11-28.06	theast a	and 800m Southwest fro	m corner point:
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Rectangle exten N 53-12-59.52, N  B. Provide GPS coordin  Latitude:  Longitude:  O. Total Area of site (H (Please provide a shape)  10. Culture Type (indice)	ding 1200m South N 132-11-28.06  nates for the centre of t	ter of th deg. deg.	e application area/tenur	m corner point:
Rectangle exten N 53-12-59.52, N  B. Provide GPS coordin  Latitude:  Longitude:  Congitude:  Congitude	ding 1200m South N 132-11-28.06  nates for the cent N 53 W 132  ectares): 96 file if available) ate all that apply tertidal Beach cu	theast at the deg. deg. ter of the deg.	e application area/tenur  12.7 min.  11.03 min.	m corner point:
Rectangle exten N 53-12-59.52, N  B. Provide GPS coordin  Latitude:  Longitude:  D. Total Area of site (H (Please provide a shape)  10. Culture Type (indice)	ding 1200m South N 132-11-28.06  nates for the cent N 53 W 132  ectares): 96 file if available) ate all that apply tertidal Beach cure low water mark	ter of th deg. deg.	e application area/tenur  12.7 min.  11.03 min.  culture activities take pladatum).	m corner point:





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X	Deepwater Suspended culture – culture activity takes place on the surface or within the
	water column.
	Nursery Operation – culture activity includes juvenile rearing
NO	TE: For a Hatchery Operation where the culture activity includes spawning adults and

larval rearing other than natural setting of spat or juveniles at the application site, use the application for PACIFIC FRESH WATER and LAND BASED AQUACULTURE

11. Physical Structures (Improvements): Complete table below by checking all applicable structures, existing and proposed, the number, dimensions and estimated area of the application site that will be covered all existing and planned structures. Specific infrastructure and maintenance details are provided in the guide to this application.

DESCRIPTION OF STRUCTIRES	EXISTING AT THE SITE	NEW PROPOSED	TOTAL NUMBER	DIMENSIONS (M OF M <sup>2</sup> ) OF EACH STRUCTURE	ESTIMATED TOTAL AREA (m²) of Coverage
Predator Protection: Predator netting (intertidal beach)					
Predator netting (subtidal sea bottom)					
Predator netting (suspended culture vertical netting)					
Tubes			1		
Other (describe):					
Intertidal Beach Modification: Rock Walls		<u> </u>	1		
Trenches		<b>D</b> '			
Berms		□'			
Vexar fencing					
Rack and Bag systems <sup>1</sup>		Π'			
Redistribution or removal of natural substrates 1					
Addition of substrate <sup>1</sup>		□¹			
Nursery Infrastructure: FLUPSY		0			
Bouncy buckets		0			
Intertidal remote setting					

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DESCRIPTION OF STRUCTIRES	EXISTING AT THE SITE	NEW PROPOSED	TOTAL NUMBER	DIMENSIONS (M OF M <sup>2</sup> ) OF EACH STRUCTURE	ESTIMATED TOTAL AREA (m²) of Coverage
Other (describe):		<b>-</b> '			
Suspended Culture Gear: Rafts	_	<b>-</b> 1			ESTIMATED TOTAL AREA (m²) OF COVERAGE:
Longlines		<b>⊠</b> ¹	160	240	ESTIMATED TOTAL LENGTH (M): 38,400
Trays					
Strings					
Socks					
Lantern Nets			32,000	50 and coloredor.	(Favi)
Pearl Nets					
Other (describe):					
On/In bottom Subtidal Culture Gear: Containment structure(s) for adults or juveniles		<u> </u>			
Addition of substrate		Π'			
Other (describe):					
Work Floats: Product handling					
Living accommodations					
Other (describe):			)		
Site Marking: Blocks					
Sinking groundline		□,			
Other (describe):					
Navigational Markers		X	4		
Mooring lines		X	320	State tringen	
Anchor blocks		<b>X</b> <sup>2</sup>	320	DEPTH (m):	14-20

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<sup>1</sup> Note that certain physical structures may require redesign, relocation, mitigation and/or a fish habitat information survey review and approval prior to installation. See Part III, Section G.

<sup>2</sup>Note that if anchor blocks are located in waters between chart datum and -10 m see note 1.

12. Inspection and Maintenance: Describe the measures that you will take to prevent the loss of culture gear (including lines, floats, rafts, netting, trays and any other equipment) or structures from the tenured area.

Daily and weekly inspections of all PP ropes, ropes replaced where worn, Diver of lift checks of anchor lines every 6 months (lines replaced where worn also)

Gear Loss Recovery: Describe your lost gear recovery plan.

Flotation to be marked with return info, recovery using farm vessels or divers if necessary, diver surveys of seabed (during anchor line inspections)

### SECTION C: MAPS AND DIAGRAMS

Attach the following maps and diagrams. They must be submitted to scale and be consistent with the other information in this application. Please refer to the Guide for details and sample diagrams.

\*Please refer to Application Attachment 1: Management Plan & Operational Diagrams

 a. Location Map: A photocopy of Canadian Hydrographic Service (CHS) Marine Chart, Cadastral map, or Topographical map of a scale between 1:20,000 and 1:40,000. showing the general location of the area under application.

#### b. Operational Diagrams

- i. A 1:5000 scale hydrographic chart (with all measurements in meters) showing the boundaries of the application area, the high and low water marks, all physical structures (improvements) associated with the proposed operation, including any existing substrate modifications (trenches, berms). as indicated in Section B, Table 15.
- ii. A 1:2000 schematic diagram showing a side view of the proposed operation, which at minimum must illustrate and itemize all structures above the surface. Include all intertidal and underwater structures from the surface of the water at chart datum to the sea bed at the most shallow point of the site that contains or will contain the deepest hanging structures (i.e. where culture gear will hang nearest to the subtidal sea floor).

Note: If drawings are larger than 11" x 17", Transport Canada requires that you enclose five (5) copies. For drawings 11" x 17" or smaller, one (1) copy will be sufficient.





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# SECTION D: WATER USE

1.	Will fresh water be used at this facility? ☐ Yes ☒ No
2.	If yes, and the source is a stream or lake, please provide name:
3.	If you already have a water licence at this site, please provide licence number, or provide date of submission of an application:
SE	CTION E: FIRST NATIONS CONSIDERATION
acc cult cor inst	ase describe any contact you may have had, including the name of the First Nation(s) and viduals contacted. Provide copies of, or a description of any information you may have juired from or provided to the First Nation(s), and any archaeological resources and areas of jural significance you are aware of in the vicinity of the proposed project. Consult the isultative Area Database (CAD) Public Map Service for First Nations contact information fructions and supporting information -
	//ftp.geobc.gov.bc.ca/pub/outgoing/CAD/CAD Public Map Service-User Guidance-
Tec	chnical Instructions.pdf.
Н	aida Enterprise Corporation (HEC) is the economic development corporation of the Council of the
	aida Nation (CHN). In this capacity HEC has been authorised by the CHN to apply for shellfish
	nure to be developed on behalf of the nation.
A	ny research in archeological and cultural resources will be undertaken with the nation where
	quired.
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# PART II – INFORMATION FOR THE BC MINISTRY OF FORESTS, LANDS AND NATURAL RESOURCE OPERATIONS

The following information, along with Part I and Part V, is required for the adjudication of the Provincial Crown Land Tenure application under the BC Land Act.

#### SECTION A: SITING CONSIDERATIONS

Applicants must respond to each consideration and may be required to provide additional information in some situations.

YES	П	Is the upland property Crown land?
		If no, is the site situated in a manner whereby it does not infringe on the riparian rights of an upland owner? $\square$ Yes $\square$ No
		If no, has the owner provided written consent for you to occupy the site for the term of the tenure? $\Box$ Yes $\Box$ No If yes, include a copy of the written consent.
		To the best of your knowledge, based on information received, is this site situated in an area of cultural or heritage significance as determined in the <i>Heritage Conservation Act</i> ?  If yes, have you contacted the Heritage and Conservation Branch to discuss your application?   Yes  No If yes, provide details:
		Is the intended use consistent with approved local government bylaws for land use planning and zoning?  Provide the name of the Regional District or Municipality for the area:  Queen Charlotte, BC
		If no, have you discussed your application with local government and have you initiated a re-zoning process? ☐ Yes ☐ No Please provide details:

#### SECTION B: ADDITIONAL CROWN LANDS INFORMATION

### PART III - INFORMATION FOR FISHERIES AND OCEANS CANADA

The following information is required as part of the Federal aquaculture licence application to make a decision for licensing under the *Pacific Aquaculture Regulations*.

Parts I, III, and V must be submitted to apply for your Federal aquaculture licence or to amend an existing licence. In addition to applicant name, DFO requires the applicant(s), if an individual or a proprietorship or a person 'doing business as

Applicar	1: Date of Birth (yyyy/mm/dd):
Applicar	2: Date of Birth (yyyy/mm/dd):
	pleted document, when approved, will form the Site Management Plan on which your re licence conditions will be based.
SECTION	N A: SANITARY GROWING WATER STATUS - BIVALVES ONLY
1. Is the	pplication site or any portion of it located in marine waters that are classified as:
	proved or Conditionally Approved for direct harvest of bivalve shellfish
	stricted or Conditionally Restricted (no direct harvest of bivalve shellfish is permitted ouration or relay may be permitted depending of the water quality sample results)
	sed / Prohibited to the harvest of bivalve shellfish
Ø u	known
2. Is the	pplication site or any portion of it located in marine waters that are classified as:
0 P	phibited – within 125 meters of fin fish net pens phibited – within 125 metres of a marina
	hibited - within 125 meters of floating living accomposation

# SECTION B: INTERTIDAL BEACH CULTURE

Check all that apply	Species Common Name	Species Scientific Name	First year that production	Annual Production Estimate	Source of Stock by species for Culture at this Site (check all that apply)			
			(sale) is anticipated to occur	(MT)	Hatchery	Natural Sets on Site	Other Stock Source	
3	Butter Clam	Saxidomus giganteus						
]	Geoduck Clam	Panopea generosa						
]	Kumamoto Oyster	Crassostrea sikamea						
J	Manila Clam	Venerupis philippinarum						
J	Littleneck Clam	Protothaca staminea						
]	Nuttall's Cockle	Clinocardium nuttallii						
	Olympia Oyster	Ostrea conchaphila						
	Pacific Oyster	Crassostrea gigas						
J	Varnish Clam	Nuttallia obscurata			N/A		N/A	
]	Other:							
	Tota	al Annual Produ	ction estimate:		(MT)			
fish fi licendary 3. If the nature	e: The source of sor use as brood stoes from CFIA and the planned source all set seed or spansone transfer, plansfer, plansfer	ock or for on-gro d the Introduction e of stock for the at collection from	wing as well as a s and Transfers culture species f off your site, wild	appropriate trans Committee. or your site is fro I harvest relayed	fer and/or i om an impo I to your sit	mport rt, a hatcl	hery,	

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	4. Do you intend to use a Mechanical Clam Harvesting machine or 'stinger' harvest gear at this site?										
	site?		Yes	0	J No						
- 1	If yes, see Section G.										
	5.Do you intenicensed area?		use a motorize	ed vehicle (i.e.	truck or ATV)	on an inter	tidal portio	n of your			
			Yes		J No						
1	f yes, see Sec	tion G	i.								
5	SECTION C:	SUE	STIDAL ON/IN	ВОТТОМ С	ULTURE						
		ubtida			erations mus			a floor			
Check all	Species Common	Spe	lture Area Deta ecies in Name	First year that	Annual Production Estimate	Culture a		y species for (check all that			
that apply	Name			production (sale) is anticipated to occur	(MT)	apply) <sup>1</sup> Hatchery	Natural Sets on Site	Other Stock Source			
	California Sea Cucumber		astichopus fornicus			0		0			
	Nuttall's Cockle	Clin	ocardium allii								
	Manila Clam	Ven	erupis ippinarum								
	Geoduck Clam	Pan	ope erosa								
	Red Sea Urchin	Stro	ngylocentrotus ebachiensis								
	Green Sea Urchin	Stro	ngylocentrotus ebachiensis								
	Other:	u.o.									
	То	tal Aı	nnual Product	ion Estimate:		(MT)					

<sup>&</sup>lt;sup>1</sup> Note: The source of stock for the licensed site may require additional authority to harvest wild fish for use as brood stock or for on-going growing as well as appropriate transfer and/or import licences from CFIA and the Introductions and Transfers Committee.

	3. If the planned source of stock for the culture species for your site is from an import, a hatchery natural set seed or spat collection from off your site, wild harvest relayed to your site, or from a cross zone transfer, please provide details (Source location, life stage, etc.).						
	4. Describe an	y supplemental fe	eding plans, if	applicable:			
	SECTION D:	DEEPWATER	SUSPENDE	CULTURE			
	1. For deepwa	ter suspended cu	Iture sites:				
	Minime the de	ated suspended st um Depth below S epest hanging tra suspended cultur	Structures at cl ys, lines, etc to	hart datum: o the sea floor	10 m		easured from
Check all that apply	Species Common Name	Species Latin Name	First year that production (sale) is anticipated to occur	Annual Production Estimate (MT)	Source of Stocking by species for Culture at this Site (check all that apply) <sup>1</sup>		
					Hatchery	Natural Set on Site	Other Stocking
	Eastern Blue Mussel	Mytilus edulis					
	Gallo Mussel	Mytilus galloprovincialis					
	Western Blue Mussel	Mytilus trossulus					0
	Pacific Oyster	Crassostrea gigas			X		

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Check all that apply	Species Common Name	Species Latin Name	First year that production (sale) is anticipated to occur	Annual Production Estimate (MT)	Source of Stocking by species Culture at this Site (check all thapply) <sup>1</sup>		species for ck all that
					Hatchery	Natural Set on Site	Other Stocking
	Oyster	virginica					
	European Oyster	Ostrea edulis					
	Kumamoto Oyster	Crassostrea sikamea					
	Geoduck Clam	Panope generosa					
	Giant Rock Scallop	Crassadoma gigantea					
X	Japanese Scallop	Mizuhopecten yessoensis		400	×		
×	Pacific Scallop (hybrid)	Patinopecten x.		400			
	Pink Scallop	Chlamys rubida					
	Spiny Scallop	Chlamys hastata					
X	Weathervane Scallop	Patinopecten caurinus		400	X		
	Red Sea Urchin	Strongylocentrotus franciscanus					
	Green Sea Urchin	Strongylocentrotus droebachiensis					
	California Sea Cucumber	Parastichopus californicus					
	Spot Prawn	Pandalus platyceros					
	Other:						
	Total Annual F	Production Estima	ate:	1200	(MT)		

<sup>&</sup>lt;sup>1</sup> Note: The source of stock for the licensed site may require additional authority to harvest wild fish for use as brood stock or for on-going growing as well as appropriate transfer and/or import licences from CFIA and the Introductions and Transfers Committee.

natural s	anned source of stock for the culture species for your site is from an import, a hatchery set seed or spat collection from off your site, wild harvest relayed to your site, or from
a cross	zone transfer, please provide details (Source location, life stage, etc.)
Seed so	callops are expected to be purchased and transferred from BC hatcheries. Seed may
be trans	sferred at 1-3 months of age (1-8mm shell height) or 9-10 months of age (25-30mm
shell he	eight). All seed transfers to the site will be undertaken in line with DFO procedures and
protoco	ls.
-	

#### SECTION E: INFRASTRUCTURE INSPECTION AND MAINTENANCE

Infrastructure Inspection and Maintenance Log

An infrastructure Inspection and Maintenance Log must be maintained and be available for inspection upon request. Describe how and what you will inspect, i.e. the structures, anchors, lines, etc., the planned frequency of inspection, and what records you will keep of inspection and maintenance of the physical structures.

All PP rope lines will be inspected weekly and replaced where worn. Anchor lines and blocks be checked (by diver or lifted) every 6 months and replaced where worn. All inspection will be logged clearly with: Data - Line Inspected - State - Alterations made - Gear changed etc.

2. Biofouling Management

Biofouling or biological fouling is the undesirable accumulation of micro-organisms, plants, algae, and animals on marine infrastructure. Describe your planned methods and/or process for management, removal and disposal of biofouling in your aquaculture operation.

Bio-fouling of nets and lines will be kept to a minimum through regular cleaning using pressure washers on board farm vessels. Algae and other set fouling will be returned directly to the natural environment. Any accumulation on farm vessels and equipment will be transferred and released in areas of the tenure where tidal exchange is at its greatest.

#### SECTION F: DOMESTIC WASTE MANAGEMENT

NOTE: Bivalve shellfish (clams, oysters, mussels, scallops) shall <u>not be cultivated, stored, or harvested</u> within 125 m of any floating living accommodation unless:

- the cultivated bivalves are seed and http://www.inspection.gc.ca/english/fssa/fispoi/man/cssppccsm/define.shtml
- a licence under the Management of Contaminated Fisheries Regulations (http://www.pac.dfo-mpo.gc.ca/fm-qp/licencepermis/ShellfishFishingApplication.pdf) has been obtained for the licensed area to harvest seed from a prohibited area; or
- an approved Zero-Discharge Management Plan is in place that reduces the prohibited harvest area to 25m.

1.	Is there is floating	ng living acco	ommodation within the marine waters of the application area?
	☐ Yes	■ No	
2.	If yes, is there a	an approved	zero waste discharge management plan in effect for this site?
	☐ Yes	□ No	Not applicable
3.	Please provide	description a	and location of sanitary facilities for your own and staff needs.
S	Sanitation facilitie	s will be prov	vided for staff on board farm vessels or at on shore facilities locally.
4.	the location of a	an approved	(s) for storage and disposal of your other waste materials. (e.g., landfill for disposal of your waste materials)
1	Non-biological w	aste materia	Is will be transported to shore and transferred to the approved waste
(	disposal site at S	Sandspit (Mo	resby Island)

### SECTION G: Fish Habitat Impacts

Fisheries and Oceans Canada – Aquaculture Management Division (DFO - AMD) is responsible for the sustainable management of aquaculture in British Columbia.

Like other types of industrial development taking place in and around water, aquaculture projects have the potential to affect fish<sup>1</sup> and fish habitat<sup>2</sup>.

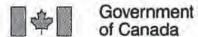
You are completing this section because you have identified that you will be undertaking an activity that may result in a harmful alteration, disruption or destruction of fish habitat. Please note: if you are referred to an Application Guide section or to contact the Aquaculture Environmental Operations group (AEO), habitat mitigation, relocation, redesign and/or biophysical assessments may be required.

Please note aquaculture activities may not occur in salt marsh habitat. Aquaculture activities must not result in harm to a Species at Risk Act (SARA) listed species, their residence, or their critical habitat, as defined in the associated Recovery Strategy, or Action Plan.

#### 1. Intertidal Culture Operations

2.

a)	Are you proposing to undertake: substrate modifications (i.e. constructing rock walls, trenches, berm or other substrate addition, redistribution or removal); or remote setting on your licenced area?
	☐ Yes - please see Application Guide or contact AEO (see contact information) ☐ No - no additional information is required.
b)	Are you proposing to: use rack and bag structures; use a mechanical clam harvester; and/or use a motorized vehicle (i.e. truck or ATV) or a 'stinger' (high pressure water wand harvesting gear) on your licenced area in any of the following habitats?
	<ul><li>(1) intertidal stream channels</li><li>(2) eelgrass beds (Zostera sp.)</li><li>(3) fish spawning areas</li></ul>
	<ul> <li>☐ Yes - please see Application Guide or contact AEO (see contact information)</li> <li>☑ No - no additional information is required.</li> </ul>
c)	Are you planning to access your licensed area through a marine riparian area?
	<ul> <li>☐ Yes - please see Application Guide or contact AEO (see contact information)</li> <li>☑ No - no additional information is required.</li> </ul>
Su	spended Culture Operations
a)	Are you proposing to install any aquaculture structures or conduct aquaculture activities (including anchor system placement) in waters shallower than -10m (measured from chart datum)?
	☐ Yes - please see Application Guide or contact AEO (see contact information)  ☑ No - no additional information is required.



- b) Are you proposing to install any aquaculture structures or conduct aquaculture activities (including anchor system placement) in waters deeper than 10m (measured from chart datum) and over any of the following habitats?
  - 1. rocky reefs
  - 2. kelp beds
  - fish spawning areas

	Yes - please see Application Guide or contact AEO (see contact information
X	No - no additional information is required.

#### 3. Subtidal On / In-Bottom Culture Operations

a)	Are you proposing to install any temporary or permanent in- or on-bottom aquaculture structures (e.g. bags on bottom, cages, nursery structures, etc.) other than site boundary markers?
	☐ Yes - please see Application Guide or contact AEO (see contact information) ☐ No - no additional information is required.
b)	Are you proposing to use harvesting methods other than hand picking or using a stinger (high pressure water wand gear)?
	☐ Yes - please see Application Guide or contact AEO (see contact information)  ☑ No - no additional information is required.

#### SECTION H: Additional Supporting Information

A separate application may be required to access fish, import species, or to introduce or transfer some species within British Columbia. See Reference guide for details.

# PART IV - INFORMATION FOR TRANSPORT CANADA

The following information, along with Part I and Part V, is required for the adjudication of the NWPA approval under the *Navigable Waters Protection Act*.

#### SECTION A: SITING CONSIDERATIONS

Applicants must respond to each consideration and may be required to provide additional information in some situations.
YES NO  Is the site situated greater than 30 m from the edge of the approach channel to a small craft harbour, federal wharf or dock?
SECTION B: ADDITIONAL TRANSPORT CANADA INFORMATION
1.a) Waterway Name: Skidegate Channel
b) Width(m):800m c) Depth Range(m):14-21
2.Nearest Community: Queen Charlotte
3.Is this Work: ☑ Proposed ☐ Existing ☐ Modification of Existing Work
4. To help with the review process, please include the following:
Photographs at the site of the proposed/existing work and surrounding area *
☐ Environmental Assessment documents (if any)
*Please see Application Attachment 2: Photos of Site, Surrounds and Proposed Works





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#### PART V - INFORMATION FOR ALL AGENCIES

All applicable components of this application package must be complete. Incomplete applications will be returned to applicant. Applicable fees must be submitted at time of application.

#### **Provincial Fees:**

Note that the current fee schedule does not include the taxes that apply.

#### Forms of Payment:

- Cheques or Money orders must be in Canadian Funds to Minister of Finance
- Debit Card (in-person only)
- Visa and MasterCard payments are accepted in-person or over the telephone. To locate
  a FrontCounter BC office, visit the website at
  <a href="http://www.frontcounterbc.gov.bc.ca/contact/">http://www.frontcounterbc.gov.bc.ca/contact/</a> or call the toll free number 1-877-8553222.

FrontCounter BC will not accept personal cheques drawn on US banks, regardless of what currency. Payment will not be accepted even if it has "CDN Funds" handwritten on the cheque.

PLEASE NOTE: Additional items may be required (eg. Advertising, Security Deposit, Proof of Insurance, Letter of Consent). Some items may have additional associated costs or require additional processing time.

As the management of this fishery program is both a federal and provincial government responsibility, the information you provide may be subject to the following legislation: British Columbia Freedom of Information and Protection of Privacy Act (FOIPP Act); the federal Access to Information Act; and the federal Privacy Act. The personal information collected by the Government of BC is collected under the authority of section 26 (c) of the FOIPP Act and will be used to process your application(s) and will be shared only with the necessary government agencies needed to provide you with the service that you have requested. If you have any questions regarding the handling of your personal information, please contact FrontCounter BC at 1-877-855-3222 or by writing to Manager, Provincial Operations, FrontCounter BC at 441 Columbia Street, Kamloops, BC V2C 2T3 and/or the Director, Access to Information and Privacy Secretariat at the Department of Fisheries and Oceans Canada and Transport Canada.

The Province of British Columbia, Fisheries and Oceans Canada, and Transport Canada do not consider the information submitted in this form to be confidential unless it is subject to the privacy protection of the *Freedom of Information and Protection of Privacy Act* or the *Access to Information Act*. I understand that the information supplied will be used to review my applications under the BC *Land Act*, BC *Fisheries Act* (until such time as it is amended) Federal *Fisheries Act* and the *Navigable Waters Protection Act* and information will be shared amongst the other agencies, First Nations and/or with the public.

Application Version number: DRAFT

Effective Date: 20120309





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Signature(s) of Applicant(s) or authorized	Name(s) of Applicant(s) or authorized representative*	Date
representative/	KENN AINSWORTH	Nov 5/12

Submit completed application, and additional supporting information (if applicable) to:

In Person: Any FrontCounter BC office.

Visit <a href="http://www.frontcounterbc.gov.bc.ca">http://www.frontcounterbc.gov.bc.ca</a> for the location nearest you.

By Mail: FrontCounter BC, 2080a Labieux Road, Nanaimo, BC V9T 6J9

By Email: frontcounterbc@gov.bc.ca

(NOTE: IF FEES ARE APPLICABLE, CLIENT MUST CONTACT FRONTCOUNTER BC BY TELEPHONE WITH CREDIT CARD INFORMATION PRIOR TO SUBMITTING THE APPLICATION ELECTRONICALLY. DO NOT INCLUDE PAYMENT (CREDIT CARD)

INFORMATION VIA EMAIL OR FAX.)

PLEASE RETAIN A COPY OF THIS APPLICATION FOR YOUR RECORDS

#### APPLICATIONS ARE NOT TRANSFERABLE

THE SUBMISSION OF THIS FORM DOES NOT IN ANY MANNER CONVEY ANY RIGHTS TO USE OR OCCUPY CROWN LAND AND/OR CONDUCT REQUESTED ACTIVITIES

<sup>\*</sup>If signature is by an authorized representative please supply a letter granting authorization to act on behalf of the applicant.



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### Legace Island Site Application: Attachment 1

#### Management Plan and Operational Diagrams

#### Longline Installation:

Longlines will be installed in a graduated fashion in line with production in 4 blocks of 40 X 240m, totaling 160 lines. This lay out can be seen displayed in operational diagram (i) within the tenure application area. The spacing between longlines will be 20m and between longline blocks 40m.

The lines will be submerged at a depth of 2.5m as seen to scale in operational diagram (ii).

Longlines will be set Northwest to Southeast along the tide with 4000kg concrete anchor blocks at either end. A spring will be introduced to the anchor lines in the form of a 150kg concrete weight placed approximately 15m from the anchor at each end. The longlines will be made from 18-22mm polypropylene rope along their length from one anchor block to the other. Anchor marker lines will also be made from 18-22mm polypropylene rope and will be used to set anchors and move them accordingly (see Operational diagram (b) (iii) for schematic).

Floatation will be attached at surface level every 10m along the workable longline (150m) in the form of cylindrical roto molded polyethylene buoys (250l, 60cm diameter). These will be of a gray, environmental aesthetically sensitive coloration. Additional Polyvinyl marker buoys (46cm diameter) will be attached at either end of the longline and at the top of the anchor marker lines. All floatation will be attached to longlines using 8-10mm polypropylene rope.

The corners of the longline blocks will be clearly marked with 75cm yellow navigational buoys and navigation lights added wherever required by Transport Canada.

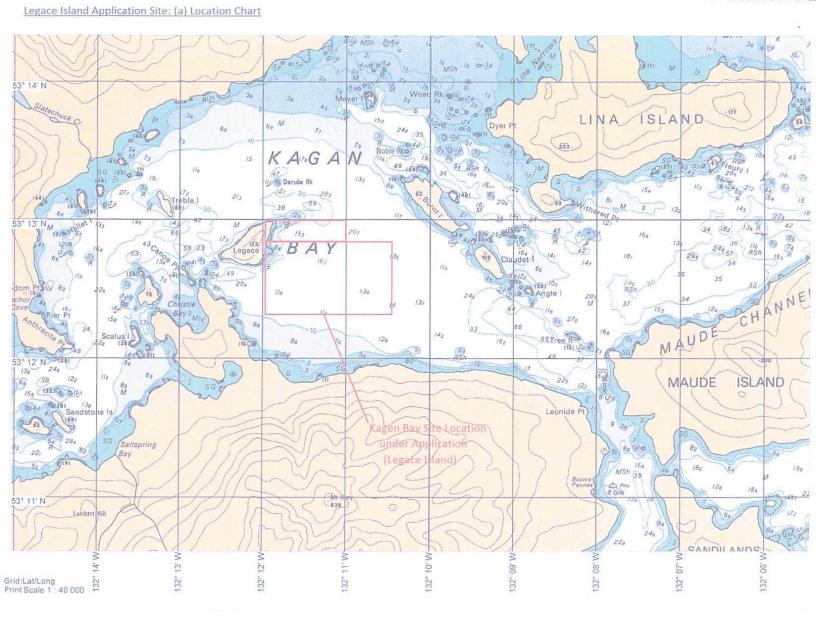
#### Seeding of Longlines and Stock Management:

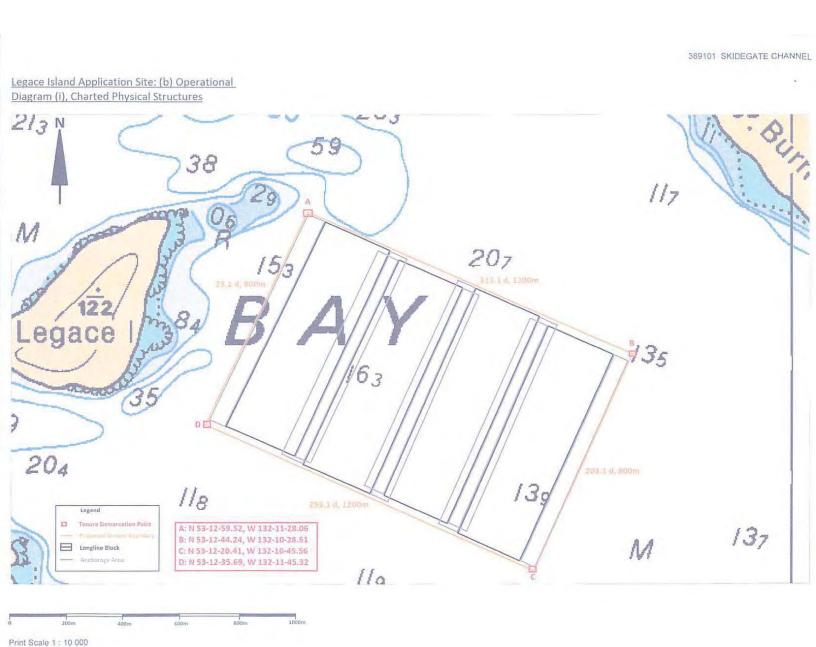
Longlines will be sown along their operating length (200m) with 200 X 50cm diameter lantern nets. These lanterns will have between 10-15 layers (with an approximate depth of 15cm per layer) each. Lantern nets of 4mm and 12-15mm mesh size will be utilised for different growth stages of the stock.

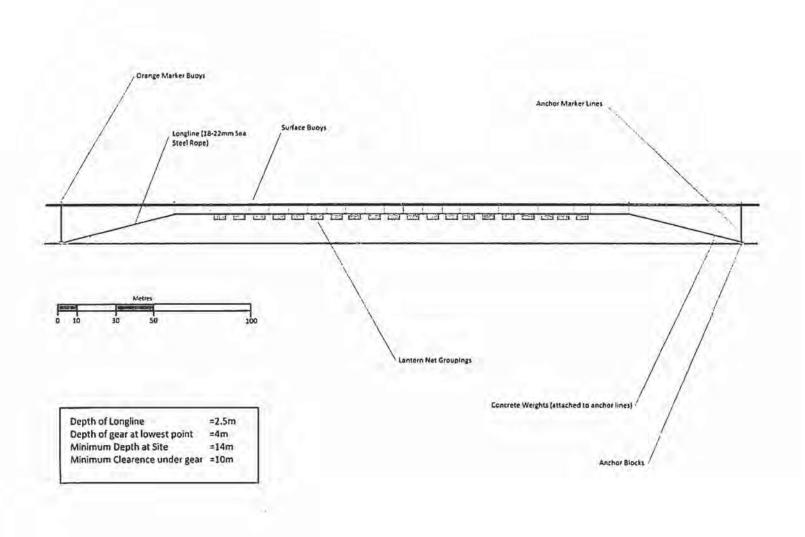
Scallop seed through to juvenile size scallops will be seeded at 200-250 pieces per layer gradually being thinned to a final density of 10-12 pieces during the second year in production. Market size scallops should attain a whole shell weight of 0.2-0.25kg per piece. Therefore maximum biomass per lantern net will be 37.5kg equating to 7.5MT of production per longline installed. Up to 2 year classes of scallops may be cultured on the lines at any point in time.

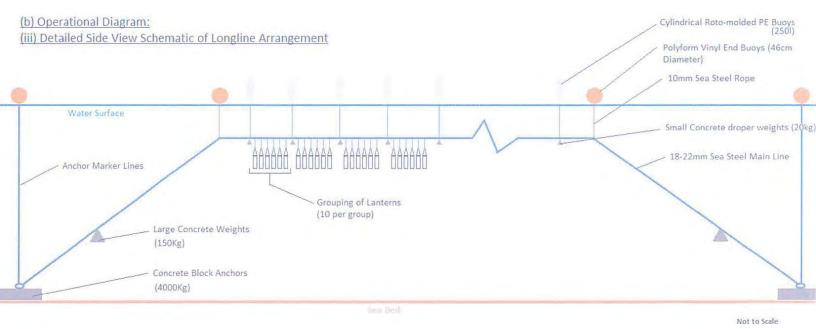
Once all longlines are established and producing at capacity estimated total annual production will be around 1200MT.

389101 SKIDEGATE CHANNEL









# **Legace Island Site Application**

# Attachment 2: Photos of Site, Surrounds and Proposed Works

