AQUACULTURE - LICENSING UNDER
FISHERIES (AMENDMENT) ACT 1997 as amended

and

FORESHORE ACT 1933 as amended

Application Form for an Aquaculture and Foreshore Licence for a single specific site.
If a Licence is required for more than one site a separate application form must be completed for each site.

Important Note

Section 4 of the Fisheries and Foreshore (Amendment) Act, 1998 (No. 54 of 1998) prohibits any person making an application for an Aquaculture Licence from commencing aquaculture operations until duly licensed under the Fisheries (Amendment) Act, 1997 (No. 23 of 1997), and provides that a breach of that prohibition will cause the application to fail.

A copy of an Environmental Impact Statement and Natura Impact Statement should be enclosed, if required, with all new, review and renewal applications. See

Aquaculture & Foreshore Management Division,
Department of Agriculture, Food and the Marine,
National Seafood Centre,
Clonakilty, Co. Cork
Telephone: (023) 8859500
Fax: (023) 8821782

Revised 2014
AQUACULTURE AND FORESHORE LICENCE APPLICATION FORM, for purposes of
FISHERIES (AMENDMENT) ACT, 1997 and FORESHORE ACT, 1933

NB: The accompanying Guidance Notes should be read before completing this form.

Note: Details provided in Parts 1 and 2 will be made available for public inspection. Details
provided in Parts 3 and 4 and any other information supplied will not be released except as may be
required by law, including the Freedom of Information Act 1997 as amended.

USE BLOCK CAPITALS IN BLACK INK PLEASE

Type of Applicant (tick one)
Sole Trader
Partnership
Company ✔
Co-Operative
Other Please specify-

PART 1: PRELIMINARY DETAILS

Applicant’s Name(s)
1. AG Oysters Limited

Address: FIRST FLOOR,
10/11 EXCHANGE PLACE,
INTERNATIONAL FINANCIAL SERVICES
CENTER,
DUBLIN 1
**PART 1: PRELIMINARY DETAILS**

<table>
<thead>
<tr>
<th>Contact in case of enquiries (if different from above)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact Name</td>
</tr>
<tr>
<td>Organisation Name (if applicable)</td>
</tr>
<tr>
<td>Address</td>
</tr>
</tbody>
</table>

**TYPE OF APPLICATION** — please indicate relevant type of application

This Application Form is valid for each type of application - *See Guidance Note 3.1*

(i) Aquaculture Licence

(ii) Trial Licence

(iii) Foreshore Licence, if Marine Based

(iv) Review of Aquaculture Licence

(v) Renewal of Aquaculture Licence

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**TYPE OF AQUACULTURE** *See Guidance Note 3.2*

Indicate the relevant type of application with a tick.

(i) MARINE-BASED

<table>
<thead>
<tr>
<th>Type of Aquaculture</th>
<th></th>
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<tbody>
<tr>
<td>Finfish</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shellfish  <em>Subtidal</em></td>
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<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Intertidal</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Seaweed/Aquatic Plants/Aquatic Fish Food</td>
<td></td>
<td></td>
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</table>
PART 2: DETAILS RELATING TO THE PROPOSED AQUACULTURE PROJECT

2.2 MARINE-BASED SHELLFISH AQUACULTURE

When filling out this section refer also to 2.2A and Guidance Note 3.3 for information on Conditions and Documents required with this application type.

Proposed Site Location

(i) Bay: BANNOB BAY,
(ii) County: COUNTY WEXFORD
(iii) OS Map No: OS2810_D (SEE ANNEX 3)
(iv) Co-ordinates of Site: (please specify coordinate reference system used e.g. Irish Grid (IG) or Irish Transverse Mercator (ITM) or Latitude/Longitude [in which case specify whether ETRS89 or WG84 etc.]

<table>
<thead>
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<th>X</th>
<th>Y</th>
</tr>
</thead>
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<tr>
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<tr>
<td>D</td>
<td>283128.492</td>
<td>109608.567</td>
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</table>

(v) Size of Site (hectares):
20.8 HA

(vi) Species (common and scientific name) and whether native or non-native species: (see Guidance Notes 3.3.1)
CRASSOSTREA GIGAS (PACIFIC OYSTER)

(vii) Whether production will be sub-tidal or inter-tidal?
INTER-TIDAL

(viii) Please supply details of (a) source of seed e.g. wild hatchery and location and (b) means of collection and introduction to culture.

Seed will be delivered by lorry.
Origins:
- NATURAL SEED (FRANCE).
- HATCHERY SEED (FRANCE/ UK/IRELAND).
- GRADE 6 - 10 MM AND HALF GROWN (15-25 GRAMS).

NB Importation of seed into the State or movement of seed within the State requires notification to the Marine Institute as per the Fish Health Authorisation Regulations – See Guidance Notes Section 6

(ix) Method of culture (rope, trestles – intensive; bottom – extensive; other)
CULTURE IN BAG ON TRESTLE.

(x) Proposed number of lines/ropes/trestles as per site layout drawing

OYSTERS WILL BE FARMED IN BAG ON TRESTLE. TRESTLES WILL BE ARRANGED in 14 BLOCKS OF 10 DOUBLE ROWS OF TRESTLES 100 METER LENGTH. OTHER SMALLER BLOCK OF TRESTLE ARE PLACED IN SMALLER COVERS OF THE SITE (WHICH COUNT FOR AN EXTRA 20 DOUBLE ROWS OF TRESTLES). TOTAL NUMBER OF TRESTLE: 10,560 (6 BAGS/PER TRESTLES) = 63,360 BAGS IN TOTAL. THERE ARE 20 METERS ALLEYS BETWEEN BLOCKS EAST-WEST AND 20 TO 30 METERS ALLEYS BETWEEN BLOCKS NORTH-SOUTH. THERE IS ALSO A GAP 4.5 METERS BETWEEN EACH DOUBLE ROWS OF TRESTLES. THESE WIDE PASSAGES ARE USED TO ALLOW EASY ACCESS BY TRACTOR WITH TRAILER AND TO KEEP AN OPTIMUM WATER EXCHANGE THROUGH THE SITE.

(xi) Proposed Production Tonnage:

<table>
<thead>
<tr>
<th>Year</th>
<th>Tonnage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
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</tr>
<tr>
<td>Year 2</td>
<td>454</td>
</tr>
<tr>
<td>Year 3</td>
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<td>Year 4</td>
<td>454</td>
</tr>
<tr>
<td>Year 5</td>
<td>454</td>
</tr>
</tbody>
</table>

(TONNAGE FOR ALL SIZE OYSTER)

(xii) (a) Please outline the reasons for site selection:

- EASILY MANAGEABLE SITE WITH TWO MAIN ACCESS ROAD. THERE ARE GOOD BIOLOGICAL INDICATORS OF A HIGH TROPHIC LEVEL SO GOOD GROWTH FOR SHELLFISH. THE SITE IS WELL KNOWN TO PRODUCE HIGH QUALITY OYSTERS WITH A HARD SHELL AND HIGH FLESH CONTENT.
- SMALL MAGNITUDE OF THE ENVIRONMENTAL IMPACT.
- LOW POPULATION DENSITY IN THE AREA.
- ABSENCE OF PROTECTED STRUCTURES OR RECORDED MONUMENTS IN THE AREA OF THE PROPOSED AQUACULTURE ACTIVITY.

(b) If using trestles please outline the physical characteristics of the site which make it suitable for using trestles

THE SUBSTRATUM IS MADE OF HARD CLEAR SAND WITH RIPPLES, INDICATING STRONG CURRENTS CARRYING FOOD AND OXYGEN TO THE OYSTERS. THE RIVERS THAT FLOW IN THE BAY (THE COROCK AND THE OWENDUFF) ALTHOUGH SLIGHTLY POLLUTED BY AGRICULTURAL RUNOFF CARRY NUTRIENTS THAT BOOSTING THE PRIMARY PRODUCTION ON WHICH OYSTER FEED. THE SITE IS LOCATED IN THE MIDDLE SOUTH EAST SECTION/ DOWNSTREAM PART OF THE ESTUARY, A SHELTER AREA SUITABLE FOR KEEPING TRESTLES OVER SUMMER AND WINTER. THE SITE IS EASILY ACCESSIBLE ACCESS FROM THE SHORE BY TRACTOR.

(xiii) Is it intended that the product is for direct human consumption or half grown? Please specify

THE PRODUCT WILL BE INTENDED FOR DIRECT HUMAN CONSUMPTION AFTER DEPURATION IN FRANCE. HALF GROWN OYSTERS MAY ALSO BE PRODUCED ON THIS SITE.

(xiv) How will the visual impact issues of the flotation devices for the proposed application be addressed?
(xv) Is the site located in Designated Shellfish Waters Area? (Refer to Guidance Note 3.3.2)

Yes [✓] No [ ]

If yes give details.

Bannow Bay Live Bivalve mollusc Classified Production Area: WX-BE-BB (see annex 4)

X Location -6.8017
Y Location 52.2361

If no outline the reasons why you believe the site suitable for the proposed aquaculture, notwithstanding its location outside Designated Shellfish Waters Area?

(xvi) Has the area been classified under Food Safety Legislation? (For Bivalve Molluscs) What is the current classification of the area for the proposed species applied for?

Production Area: Bannow Bay.
Boundaries: Ingard Point to Clammer’s Point.
Bed Name: All Bed.
Classification B for Oysters Cultivation.

(xvii) Is the site located in/adjacent to a sensitive area e.g. SPA (Special Protection Area) or SAC (Special Area of Conservation) i.e. a Natura 2000 site? (Refer to Guidance Note 3.3.1- Natura 2000 sites)

Bannow Bay is classified Special Area of Conservation and Special Protection Area.


SPA: The site was designated SPA due to the important number of wintering wildfowl and excellent feeding grounds at low tide in the mud flat and sand flat intertidal areas.

Oyster farming on trestles, above the ground have a moderate ecological impact on the wildlife. Trestles act as reefs where many plants and animals can attach, proving shelter and nursery for sea animals. The increase of faunal biodiversity will supplement additional source of prey to foraging shorebirds and waders (see report “Preliminary survey of species richness and abundance associated with commercial oyster cultivation, F. Richez & G. Oliver, March 2008”).
Feeding grounds for birds within Bannow Bay are mostly located upstream on the mud flats. It is expected that the site will be more visited by birds with the increase of food source from the trestles. As such, Brent Geese are commonly spotted using trestles for resting and feeding on the green algae. Oyster catchers will be using the site in search of damaged oyster shell. Many species of birds are spotted between the trestles at low tide.

Also, due to its location, the site will be accessed by tractor only to put the trestles and bags in place and for harvest or splitting the bags. The site will be accessed by foot from the nearby shore for turning the bags so that nuisance from tractors will be kept to a minimum.

Visual impact: The visual impact is moderate as there is already oyster farming activities in the Bay. Also at low tide, the trestles are submerged under the sea. The site is far away from the shore so that it is has less visual impact than other sites situated on the shoreline.

Positive impact: Oyster are feeding on the primary production (the micro-algae). Eventual excess of nutrients runoff from streams and rivers may lead to coastal Eutrophication problems. Therefore this activity, when carried in suitable manner may have a very positive foot print and help to maintain a good environment balance. Furthermore, many place where shellfish farming is taking place are also important place of passage and wintering for migratory species. A good example between many other is the Bassin d’Acachon in France: Berth of oyster cultivation and a site occupied by 30,000 waders, an important breeding ground for the Stern caulk, Kentish Plover. Also, in the past 30 years, the Brent Goose population have increase by fivefold in the bassin d’Arcachon (1 of the 6th most visited site by these migratory birds in France).

Oyster farming when carried out adequately should be seen as an example of low environmental impact with positive benefits to the fauna, unlike the increasing urban and tourist pressure in the area.

NHA: The area has been listed as NHA due to the presence of 12 coastal habitats listed under the annex 1 of the habitat directive. Of these, the only habitat of concern where shellfish culture is located is Munflats and sand flats not covered by seawater at low tide [1140]. The site is not located on the mudflats but above the sand flats. There are wide passages between the trestles. Lot of space is allocated between the trestles to facilitate the drainage and water exchange along the main channels. Also trestle are not permanent structures and oyster farming has no irreversible effect on the sand flats habitat.

Other positive impacts:

The oyster farm will participate to the sustainable development of coastal communities, creating local employment. It will benefit to other local
BUSINESSES: DIRECTLY WITH THE SALE BANNO BAY OYSTERS TO LOCAL RESTAURANT AND STORES, INDIRECTLY IT WILL ENRICH THE CULTURAL HERITAGE. FOR ITS LOCATION, THE FARM WILL BE A GOOD EXAMPLE OF INTEGRATION OF THE NATURAL, CULTURAL AND SOCIAL HERITAGE.

(xviii) Are there known sources of pollution in the vicinity e.g. sewage outfall? YES If yes please give full details.

WELLINGTON BRIDGE AND CARRICK ARE EQUIPPED WITH WASTEWATER TREATMENT UNITS. MEASURE TO BE TAKEN BY THE BALLYTEIGUE/ BANNO BAY MANAGEMENT PLAN IS TO INCREASE THE CAPACITY OF WELLINGTONBRIDGE. (SEE ANNEX 4)

(xix) Methods used to harvest the shellfish and details of any subsequent processing of shellfish

THE OYSTER BAGS WILL BE HARVESTED USING A TRACTOR AND TRAILER.

(xx) Describe any proposed purification facilities to be used:

HUITRES GEAY EARL.
BP 74 RUE DES BRUNETTES
LA TREMBLADLE 17390 - FRANCE

(xxii) What are the main predators of the species to be cultivated?

SEED/ HALF GROWN OYSTER: GREEN CRABS, BROWN CRAB.
LARGE OYSTERS: OYSTER CATCHER (FOR BAGS MESH SIZE SUPERIOR TO 8 — 10 MM)

Remove the crabs from the bags of seed and use 10-12 MM bags if there is predation from oyster catcher.

See Part 2.2A for details of documentation to be included with this application type

2.2A DOCUMENTATION REQUIRED FOR MARINE-BASED SHELLFISH AQUACULTURE
(to be included separately with a Licence Application for a new site or for a renewal or review of an existing Licence)

1. An appropriate Ordnance Survey Map (recommendation is a map to the Scale of 1:10,000/1:10,560, i.e. equivalent to a six inch map). Note: The proposed access route to the site from the public road across tidal foreshore must also be shown on the map.
PART 5: APPLICATION DOCUMENTATION

The following documents are enclosed with this application:

NB: Refer to Guidance Note Section 3.3 – Guidance on Application Documentation

<table>
<thead>
<tr>
<th>No.</th>
<th>DOCUMENTATION</th>
<th>YES</th>
<th>NO</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>An appropriate Ordnance Survey Map (recommendation is a map to the scale of 1:10,000/10:10,560, i.e., equivalent to a six inch map)</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Scale drawing of the structures to be used and the layout of the farm (recommended scales normally 1:100 for structures and 1:200 for layout)</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>The prescribed application fee</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Environmental Impact Statement (EIS), if required</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>4a</td>
<td>Natura Impact Statement (NIS), if required</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Water Quality Analysis Report, if appropriate</td>
<td>✓</td>
<td></td>
<td></td>
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<tr>
<td>6</td>
<td>Decision of Planning Authority under the Planning Acts, if required</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Copy of Licence under Section 4 of the Local Government (Water Pollution) Act, 1977 – Effluent Discharge, if required</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>If the applicant is a limited Company within the meaning of the Companies Act 1963, as amended, a copy of the Certificate of Incorporation and Memorandum and Articles of Association.</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>If the applicant is a Co-operative, a copy of the Certificate of Incorporation and Rules of the Co-operative Society</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Integrated Pest Management Plan, if required</td>
<td>✓</td>
<td></td>
<td></td>
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<tr>
<td>11</td>
<td>Alien Species documentation, if required</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
PART 5: DECLARATION AND SIGNING

NB: Refer to Guidance Note Section 3.5 and Section 4 - Guidance on Declaration and Signing and Annual Aquaculture and Foreshore Licence Fees

If this is a renewal/review have you met all licence conditions of the existing aquaculture licence? If applicable, explain why you have not complied with all conditions:

__________________________________________________________________________
__________________________________________________________________________
__________________________________________________________________________
__________________________________________________________________________
__________________________________________________________________________
__________________________________________________________________________

I/We hereby declare the information provided in Parts 1, 2, 3 and 4 above to be true to the best of my/our knowledge. I/We enclose an application fee* of €95.23 with this application.

Signature(s) of Applicant(s):

(Please state capacity of persons signing on behalf of a Company/Co-op)

__________________________________________________________________________
__________________________________________________________________________
__________________________________________________________________________
__________________________________________________________________________
__________________________________________________________________________

Date: 25/04/16

NB All persons named on this licence application must sign and date this application form. Only the existing licence holder(s) can apply for the renewal/review of an Aquaculture Licence.

*Preferred method of payment is by cheque or bank draft. The fee should be made payable to the Department of Agriculture, Food and the Marine.

Refer to Guidance Note Section 4 - Guidance on Aquaculture and Foreshore Licence Fees
The application form should be forwarded, with the required documents and application fee, to:

Aquaculture Licensing  
Aquaculture & Foreshore Management Division  
Department of Agriculture, Food and the Marine  
National Seafood Centre  
Clonakilty  
Co. Cork
1 NO. SITE AT BANNOW BAY CO. WEXFORD

Co-ordinates & Area

Site T03/096A (20.8 Ha)

The area seaward of the high water mark and enclosed by a line drawn from Irish National Grid Reference point

283201, 109478 to Irish National Grid Reference point
282834, 109308 to Irish National Grid Reference point
281682, 109344 to Irish National Grid Reference point
283128, 109609 to the first mentioned point.
ANNEX 3
OS Map of the site boundaries and access road
Bannow Bay, AG Oyster LTD., April 2016.

Legend
- Site boundaries
- Access road

20.8 Ha

Kieran's Quay
New Quay

Bannow Bay

Cuan Bhanú
Satellite map of the site with representation of the trestles and access road (Bannow Bay, AG Oyster Ltd, April 2016).

Legend:

- 20 double rows of trestles
- Site boundaries
- Tractor access
- Access by feet

Photo of the tractor access road
ANNEX 7

PLAN OF STRUCTURE

Schematic representation of trestle

Top: 4 x 300 mm L x 16 mm Dia. steel bars

Legs: 3 x 20 mm Dia. steel bars

Dimension:

H: 0.5 m.
L: 3 m.
W (top): 0.8 m.

View 3D

Cross Section

Longitudinal Section

Navigation poles

Double row of trestles

Navigation yellow Cross marker to place on top of pole

Date: April 2016
Applicant name: AG Oysters LTD
Title: Proposed aquaculture sites at Bannow Bay, Co wexford, Ireland
Address: First Floor, 10/11 Exchange Place, International Financial Services Center, Dublin 1

Pictures & diagrams:
Shematic representation of the site with plans of structures


Legend

- Water channels
- Site boundaries

1 block = 20 rows of trestles = 660 trestles = 3,960 bags (6 bags per trestle)

Total Number of trestles = 10,450
Total Number of bags = 63,360

20.8 Ha

zoom in

A

15 meters

B

30 meters

C

20 meters

D

4.5 m

100 meters

2 double rows (4 rows) of trestles

1 m

4.5 m
Annex 4

Satellite map of the Environmental features

Legend

- Waste water treatment plant
- Access route
- Oyster sampling WX-BE-BB
- Important shorebirds feeding areas.

sis20 ha