

EIA SCREENING ASSESSMENT T12/177, T12/336, T12/385 & T12/437

1. Applicant Details

Name

Address

2. Characteristics of Project

a) Species cultivation proposed

b) Method

c) Production in intertidal zone

d) Production beyond intertidal zone

e) Source of seed/spat etc

f) Is a non-native species to be cultivated?

g) Annual Production Estimates - Tonnes

3. Location of Project

a) File No.

b) No. of sites

c) Location

d) Hectares

e) Shellfish Waters Designation

If yes, identify area as per S.I. 268 of 2006/S.I. 55 of 2009

If yes, Name of designated area - Map No. & Date of Map

f) Natura 2000 site

4. Development Plan

a) County Development Plan

If yes, identify relevant sections

John Christopher McKinney

Harbour View

Green Castle

Co. Donegal

Pacific Oysters

Bags & trestles culture

Yes

No

French Hatcheries

Yes. With the exception of Articles 3, 4 Regulation EC 708/2007 does not apply to the production of C. gigas.

Year 1 Estimated annual tonnage 60 tonnes

Year 2 Estimated annual tonnage 60 tonnes

Year 3 Estimated annual tonnage 60 tonnes

Year 4 Estimated annual tonnage 60 tonnes

T12/177, T12/336, T12/385, T12/437

5 sites T12/177, T12/336A (renewals), T12/385A, T12/437A & T12/437B (new applications)

Trawbreaga Bay

T12/177 0.85 ha, T12/336A 0.3699 ha, T12/385A 0.71 ha,

T12/437A 0.4049 ha & T12/437B 0.8617 ha

Yes

SI 55 of 2009

Trawbreaga Bay – Map 29 August 2008

Yes.

North Inishowen Coast SAC (Site Code 002012) and Trawbreaga Bay SPA (Site Code 004034)

Yes. Donegal County Development Plan

Chapter 8. Tourism and Marine. The Council will support the sustainable development of the aquaculture sector to maximise its contribution to economic growth within the county. In particular, the Council acknowledge the development and expansion of the oyster farming

If yes, period covered

b) Local Area Plan

If yes, identify relevant sections

c) Other

industry in the county and its potential in terms of employment and product export.	
2012-2018	
No	
No	

T12/177, T12/336, T12/385 & T12/437			
EIA SCREENING CHECKLIST			
Is it an ANNEX II project?		YES	
Is the project located on or adjacent to a Natura 2000 area?		Yes The project is located within North Inishowen Coast SAC (Site Code 002012) and Trawbreaga Bay SPA (Site Code 004034)	
If yes, has the appropriate assessment been carried out?		Yes. An Article 6 assessment of aquaculture activities in North Inishowen Coast SAC and Trawbreaga SPA has been carried out and published on the Department Website	
1. CHARACTERISTICS OF THE PROJECT - ANNEX III (1)		Yes/No - Briefly describe	Is this likely to result in a significant effect? Yes/No? - Why
(a) Size of project			
Will the project be out of scale with the existing environment?		No. The development 3.1965 (5 sites), is not out of scale relative to the body of coastal water within which it is located.	
Will it lead to further consequential development or works (e.g. new roads, landing facilities, provision of new water supply)?		No. Existing infrastructure will be used and no additional infrastructure developments are needed.	
(b) Cumulation with other development			
Are there potential cumulative impacts with existing aquaculture projects or with other licensed aquaculture projects but which have not yet begun?		Yes. There are other aquaculture projects in the bay involving the cultivation of oysters. There are potential navigational, visual and benthic impacts.	No. The impact on the benthos will be localised and limited to the area directly beneath the trestles. The impact on navigation will require assessment and possibly mitigation by appropriate navigational marking/site area reduction or other measures – to be determined. It is not expected that there will be a significant impact on other

			sensitive receptors e.g. air, water, cultural heritage, visual amenity.
Are there potential cumulative impacts with existing foreshore projects or with foreshore projects licensed but which have not yet begun? T12/177, T12/336, T12/385 & T12/437	No.		
1. CHARACTERISTICS OF THE PROJECT - ANNEX III (1) cont'd	Yes/No - Briefly describe		Is this likely to result in a significant effect? Yes/No? - Why
(b) Cumulation with other development cont'd			
Should the application for this project be regarded as an integral part of a more substantial project? If so, can related projects which are subject to separate applications proceed independently?	No.		
(c) Use of natural resources			
Will installation or operation of the project use natural resources such as land, water, materials or energy, especially any resources which are non-renewable or in short supply? <ul style="list-style-type: none"> • land (especially undeveloped or agricultural land)? • water? • energy including electricity and fuels? • any other resources? 	Yes. The proposed cultivation of oysters on the foreshore will use naturally occurring marine phytoplankton present in the seawater.		No. High levels of plankton occur naturally at the location and shellfish cultivation at this scale will not result in limiting plankton growth or abundance.
(d) Production of waste			
Will the project produce wastes during installation or operation or decommissioning? <ul style="list-style-type: none"> • municipal waste (household and/or commercial)? • surplus product? • construction or demolition wastes? • redundant machinery or equipment? • any other solid wastes? 	Yes. The cultivation of shellfish will produce faeces and pseudofaeces. Grading and removal of mortalities will result in shells being discarded. Trestles, bags, associated with the growing process may need to be replaced.		No. The amount of produced faeces and pseudofaeces will be small and the impacted area will be limited to the area directly beneath the trestles. The site is well flushed and build up of excess organic matter on site is not considered likely. Discarding of

<ul style="list-style-type: none"> liquid or solid wastes in suspension? 		damaged old bags, trestles or other material into the sea or on the foreshore will not be permitted.
T12/177, T12/336, T12/385 & T12/437		
2. CHARACTERISTICS OF THE PROJECT - ANNEX III (1) cont'd	Yes/No - Briefly describe	Is this likely to result in a significant effect? Yes/No? - Why
(e) Pollution and nuisances contd.		
<p>Will the project release pollutants or any hazardous, toxic, or noxious substances to air?</p> <p>Emissions from:</p> <ul style="list-style-type: none"> combustion of fossil fuels from stationary or mobile sources? Construction activities including plant & equipment? any other sources. 	<p>Yes. There will be emissions associated with husbandry and harvesting of shellfish from tractors or other machinery. There will be no release to the air of other hazardous, toxic or noxious pollutants.</p>	<p>No. The emissions levels will not be significant.</p>
<p>Will the project cause noise and vibration or release of light?</p> <ul style="list-style-type: none"> from operation of equipment e.g. engines? from blasting or piling? from construction or operational traffic? from lighting or other systems? from any other sources? 	<p>Yes. There will be noise associated with husbandry and harvesting of shellfish from tractor and other noise.</p>	<p>No. Noise levels will not be significant.</p>
(f) Risk of accidents, having regard in particular to substances or technologies used		
<p>Will there be any risk of accidents during installation or operation of the project which could affect human health or the environment?</p>	<p>Yes. There may be a minor risk of physical injury while working onsite but no risk to human health.</p>	<p>No. There is minor risk to the environment from onsite accidents.</p>
<p>Will the project lead to risks of contamination of land or water from releases of pollutants onto the ground or into surface waters, groundwater, coastal waters or the sea?</p>	<p>No. No chemicals or hazardous substances will be used during the production process.</p>	

Will the project involve use, storage, transport, handling or production of substances or materials which could be harmful to people or the environment (flora, fauna, water supplies)?	No. Cultivation of oysters depends on naturally occurring marine resources. No harmful substances or materials will be used.	
<ul style="list-style-type: none"> • use of hazardous or toxic substances? • potential changes in occurrence of disease or effect on disease carriers (e.g. insect or water borne diseases?) 		
T12/177, T12/336, T12/385 & T12/437		
1. CHARACTERISTICS OF THE PROJECT - ANNEX III (1) cont'd	Yes/No - Briefly describe	Is this likely to result in a significant effect? Yes/No? - Why
(g) Will installation, operation or decommissioning of the project involve actions which will cause physical changes in the locality (topography, land use, changes in waterbodies, etc)?	Yes. Trestles will be placed on the foreshore.	No. The development can be considered as minor and reversible as all structures can be removed.
<ul style="list-style-type: none"> • dredging? • coastal structures (seawalls, piers)? • offshore structures? • facilities for storage of goods or materials? • facilities for treatment or disposal of solid wastes or liquid effluents? • new road, rail or sea traffic during construction or operation? • new road, rail, air, waterborne or other transport infrastructure including new or altered routes and stations, ports, airports etc? • closure or diversion of existing transport routes or infrastructure leading to changes in traffic movements? • new or diverted transmission lines or pipelines? • transport of personnel or materials for construction, operation or decommissioning? • decommissioning or restoration works? • introduction of alien species? 	Yes. <i>Crassostrea Gigas</i> . With the exception of Article 3 and 4, Regulation EC 708/2007 does	No. The risk of establishment of non-native oyster species is considered low in the bay

<ul style="list-style-type: none"> loss of native species or genetic diversity? any other changes? 	not apply to the production of <i>C. Gigas</i> .	because of the short water residence time and heavy cover of macroalgae in intertidal areas. The continued use of triploid oyster stock will further reduce the risk. Additionally, the continued use of triploid stock in Trawbreaga Bay will also reduce the risk of establishment of non-native oyster species in the adjoining Lough Swilly area.
(h) Inherent social changes		
Will the project result in social changes, for example, in demography, traditional lifestyles, employment?	It is anticipated that job opportunities will result from this project.	No. The impact will be locally beneficial but not significant
T12/177, T12/336, T12/385 & T12/437		
2. LOCATION OF THE PROJECT - ANNEX III (2)	Yes/No - Briefly describe	Is this likely to result in a significant effect? Yes/No? - Why
(a) Existing land use		
Are there existing land uses on or around the location which could be affected by the project, e.g. homes, gardens, other private property, industry, commerce, recreation, public open space, community facilities, agriculture, forestry, tourism, water catchments, functional floodplains, mining or quarrying?	No. Terrestrial land use will not be affected and there is no spatial overlap with other users of the inter-tidal foreshore.	
Are there any areas on or around the location which are occupied by sensitive land uses e.g. hospitals, schools, places of worship, community facilities, which could be affected?	No.	
Is the project located in a previously undeveloped area?	No. There are 2 renewal applications T12/177, T12/336A, 2 new applications (incorporating 3 sites) T12/385A, T12/437A & T12/437B and there is other shellfish production in the bay.	
(b) Relative abundance, quality and regenerative capacity of natural resources in the area		
Are there any areas on or around the location which contain important, high quality or scarce resources which could be affected by the project?		Given the location and scale of the proposed

<ul style="list-style-type: none"> • groundwater resources • surface waters • fisheries • tourism 	Yes. Fisheries and Tourism	aquaculture site significant impacts on the fisheries / tourism in the area are not considered likely.
(c) Absorption capacity of the natural environment Are there any areas on or around the location which are protected under international or national or local legislation for their ecological, landscape, cultural or other value, which could be affected by the project?	<p>Yes. This site is located in Trawbreaga SPA (004034) and North Inishowen Coast SAC (002012)</p> <p>The SAC is designated for the habitat feature of Mudflats and sandflats not covered by seawater at low tide (1140) including constituent community of Muddy sand to coarse sediment with <i>Pygospio elegans</i> community complex, and Sand with <i>Angulus tenuis</i> and <i>Scoloplos armiger</i> community complex</p> <p>Otter (<i>Lutra lutra</i>) is specified among the qualifying interests of the SAC</p> <p>The SPA aspects are elaborated on below</p>	<p>No. The AA concluded that existing and proposed activities do not pose a risk of significant disturbance to the conservation of the designated habitat feature of Mudflats and sandflats not covered by seawater at low tide (1140) or constituent community of Muddy sand to coarse sediment with <i>Pygospio elegans</i> community complex, and Sand with <i>Angulus tenuis</i> and <i>Scoloplos armiger</i> community complex</p> <p>The AA concluded that aquaculture activities did not present a barrier to migration and on the (freshwater) attributes for the Otter (<i>Lutra lutra</i>)</p>
T12/177, T12/336, T12/385 & T12/437		
2. LOCATION OF THE PROJECT - ANNEX III (2) cont'd.	Yes/No - Briefly describe	Is this likely to result in a significant effect? Yes/No? - Why
(c) Absorption capacity of the natural environment cont'd Are there any other areas on or around the location which are important or sensitive for reasons of their ecology? <ul style="list-style-type: none"> • wetlands, watercourses or other waterbodies? • the coastal zone? • mountains, forests or woodlands? 	<p>Yes. The wetland habitat contained within Trawbreaga SPA is identified to be of conservation interest for the regularly occurring migratory waterbirds that utilise it</p>	<p>No. This proposed development will not cause any change in the permanent area occupied by the wetland habitat.</p>

<ul style="list-style-type: none"> • nature reserves and parks? 	<p>Are there any areas on or around the location which are used by protected, important or sensitive species of fauna or flora e.g. for breeding, nesting, foraging, resting, overwintering, migration, which could be affected?</p>	<p>Yes. This site is located in Trawbreaga SPA (004034) and North Inishowen Coast SAC (002012) The SPA is designated for non-breeding populations of Barnacle Goose and Light-bellied Brent Goose and both breeding and non-breeding elements of the Chough population</p>	<p>No. Chough: The AA concluded that, taking account of the proposed scale of oyster cultivation, lack of any significant use of intertidal habitat by the Chough and the separation of oyster cultivation from known foraging, roosting or nesting sites, it is unlikely that intertidal oyster would have a negative impact on the Chough Barnacle Geese: The AA concluded that as Barnacle Geese do not feed on inter-tidal habitat the placement of trestles would not result in any direct loss of foraging grounds. It also found that the risk of negative impacts at access points to be low Light-bellied Brent Goose: The AA concluded that aquaculture activities, including this site, are not considered disturbing to Light-bellied Brent Geese taking account of the favourable conservation status of the species, large area of suitable habitat, foraging opportunities provided by green algae on trestles etc</p>
	<p>Are there any inland, coastal, marine or underground waters on or around the location which could be affected?</p>	No.	
	<p>Are there any groundwater source protection zones or areas that contribute to the recharge of groundwater resources?</p>	No.	
	<p>Are there any areas or features of high landscape or scenic value on or around the location which could be affected?</p>	No.	

Are there any routes or facilities on or around the location which are used by the public for access to recreation or other facilities, which could be affected?	No. Public access to recreational and other activities will not be impacted by the project.	
T12/177, T12/336, T12/385 & T12/437		
2. LOCATION OF THE PROJECT - ANNEX III (2) cont'd	Yes/No - Briefly describe	Is this likely to result in a significant effect? Yes/No? - Why
(c) Absorption capacity of the natural environment cont'd		
Are there any transport routes on or around the location which are susceptible to congestion or which cause environmental problems, which could be affected?	No. Given the scale of production the amount of additional traffic generated will not be significant.	
Is the project in a location where it is likely to be highly visible to many people?	No. The sites are not readily visible or have limited visibility from public roads. Overall landscape and visual impact of the development will be of slight or negligible significance. Population density in the area is low.	
Are there any areas or features of historic, cultural or archaeological importance on or around the location which could be affected?	No. No protected structures as per County Development Plan.	
Are there any areas on or around the location which are already subject to pollution or environmental damage e.g. where existing legal environmental standards are exceeded, which could be affected?	No. Results of monitoring under the Shellfish Waters Directive do not indicate water quality issues in the vicinity of the proposed shellfish production area. Oysters in this area currently have a "B" Classification under Annex II of the EU Regulation 854/2004.	

Is the area densely populated?			
Is the location of the project susceptible to earthquakes, subsidence, landslides, erosion, flooding or extreme or adverse climatic conditions e.g. temperature inversions, fogs, severe winds, which could cause the project to present environmental problems?	No.		
<p>On the basis of the above the consensus of the screening group is that the proposed aquaculture is not likely to have significant effects on the environment and that an Environmental Impact Statement is not required for this project consideration of the risk posed to navigation will be required prior to a licensing decision.</p>			
<p>EIA SCREENING GROUP COMPRISES OF MEMBERS FROM: THE MARINE INSTITUTE THE DEPARTMENT'S MARINE ENGINEERING DIVISION BORD IASCAIGH MHARA REPRESENTATIVES OF THE DEPARTMENT'S AQUACULTURE AND FORESHORE MANAGEMENT DIVISION</p>		<p>Dated 15/3/17 <i>WJ</i></p>	