

# Dredging in the Territorial Sea and Controlled Waters Adjacent to Northern Ireland

# Marine Licensing

Important: before completing this form, please read these notes carefully.

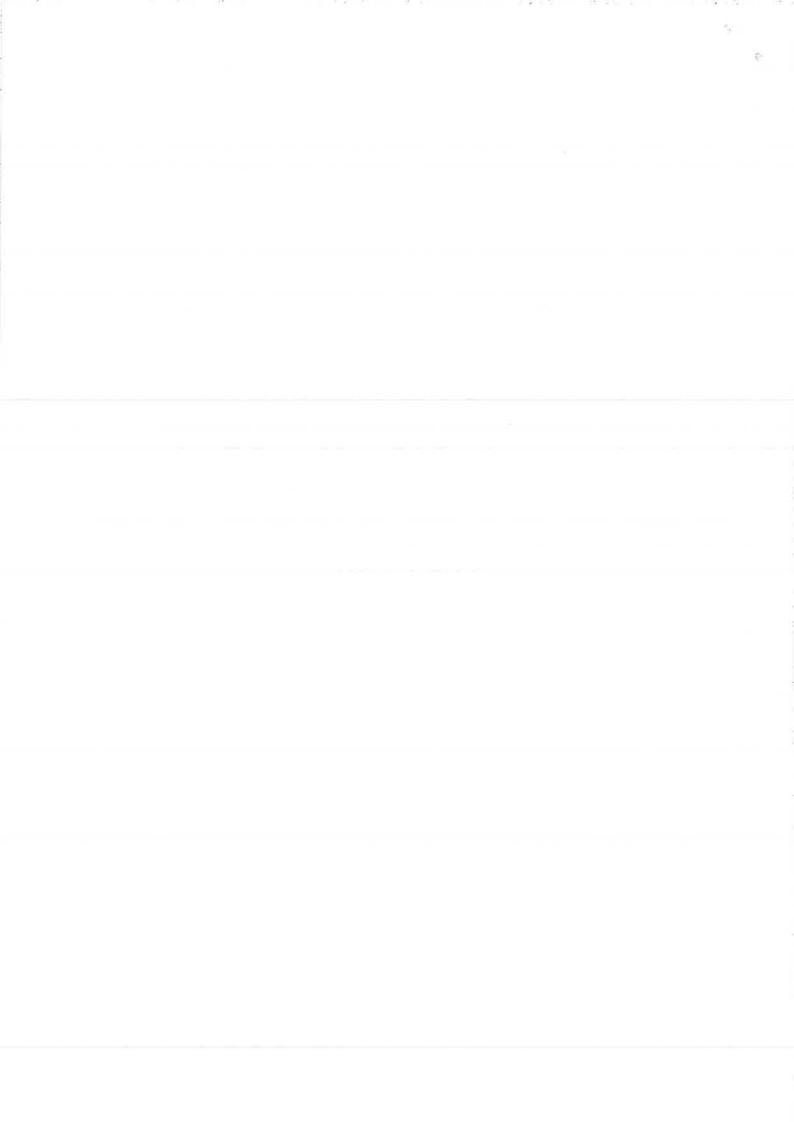
The following numbered paragraphs correspond to the questions on the application form and are intended to assist applicants in completing the form. These explanatory notes are specific to this application and so applicants are advised to read these in conjunction with the General Marine Licensing Guidance document. However it may be that these notes do not fully cover all the questions that you may have. If further clarification is needed please telephone us on

028 90569247 or email

MarineLicensingTeam@doeni.gov.uk

For fees categories please see Marine Licensing Fees Addendum

For further Guidance please refer to Marine Licensing Guidance for Applicants



## **EXPLANATORY NOTES**

# 1. Project Title

Enter the name and/or co-ordinates of the proposed dredging site, Please state co-ordinates in degrees and minutes to one decimal point of a minute, or Irish Grid Reference System (IGR) any distances at sea should be in nautical miles, and on land should be in miles. An admiralty chart may be provided with annotations.

# 2. Applicant

The person, company or organisation making the application. (The licensee will be the contractor actually carrying out the dredging activity).

# 3. Agent

Any person, company or organisation involved in the operations. For example, they may be engaged to act under contract or other agreement on behalf of any party listed in the answer to questions 2-4 and having responsibility for the control, or management of the dredging anywhere below the tidal limit of mean high water springs (MHWS). (e.g. a consultant submitting the application.)

## 4. Details of Current/Previous Licence

Enter the appropriate details for any current dredging licence. If you have previously held a licence in respect of this operation, but no current licence exists, please provide the details for the most recently expired licence. If you have no knowledge of any previous licence, please enter "not applicable" (or "N/A").

# 5. Duration of Dredging Operation

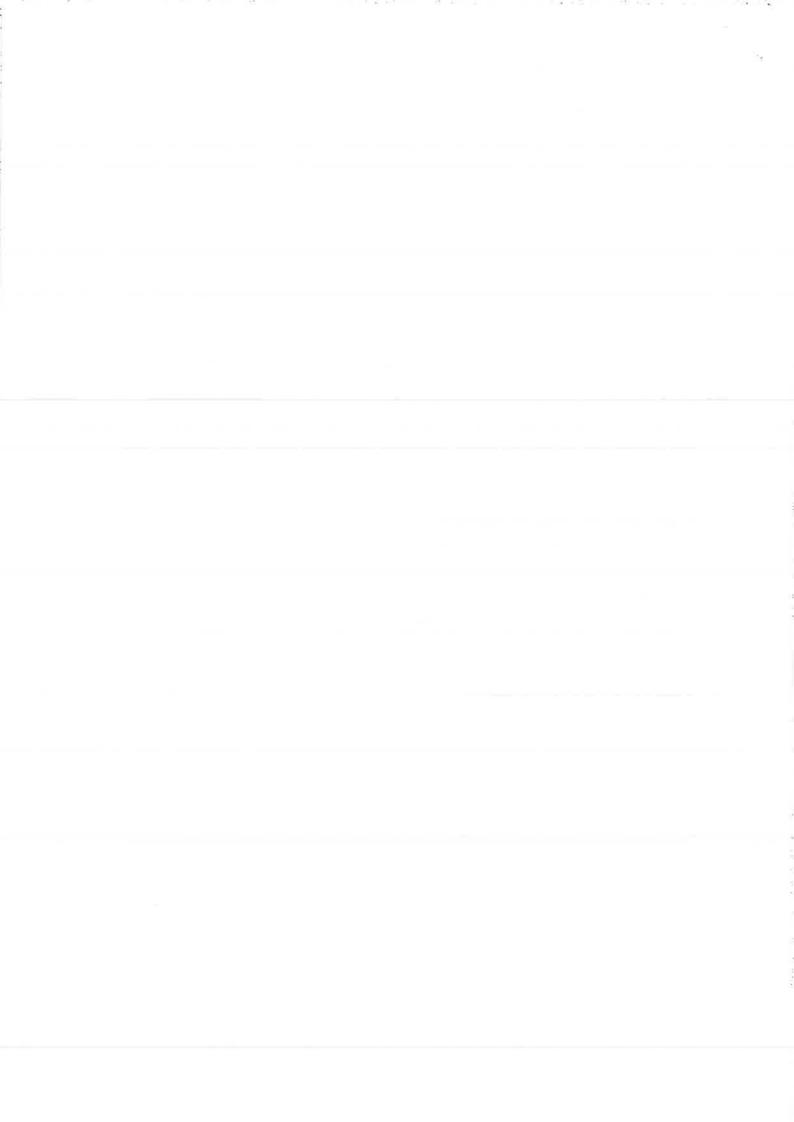
Details of the proposed commencement and completion dates of the operation should be included. A licence will normally be valid for 12 months.

# 6. Details of Disposal Operation

If the dredged material in this application is to be disposed of at sea, a Marine Sea Disposal licence will be required. Please indicate if a sea disposal licence has been applied for, and the associated licence application number if available.

# 7. Method Statement

Please include a full method statement of the dredging operation. This should include details of proposed timings of dredging operations, full bathymetric information (existing



and proposed dredge levels), method of dredging (i.e. backhoe, grab, floating plant, causeway). Also information on how the material will be removed from the dredge site will need to be included in the application.

# 8. Description of proposed dredged material.

The applicant should indicate the following:

- Amount of material to be dredged in metric tonnes. A conversion factor of 1.4 tonnes/m³ should be used for maintenance dredging and 1.6 tonnes/m³ for capital dredging.
- Type of Material: whether the material is considered to be 'capital' or 'maintenance'
  - Capital: material from an area to be dredged down to a level not previously dredged during the preceding 10 years.
  - Maintenance: unconsolidated material which has been removed to maintain existing charted depths for navigational purposes.
- Nature of Material Please provide a description of where the dredge material has originated, e.g. river bed, sea, harbour, approach channel, estuary.

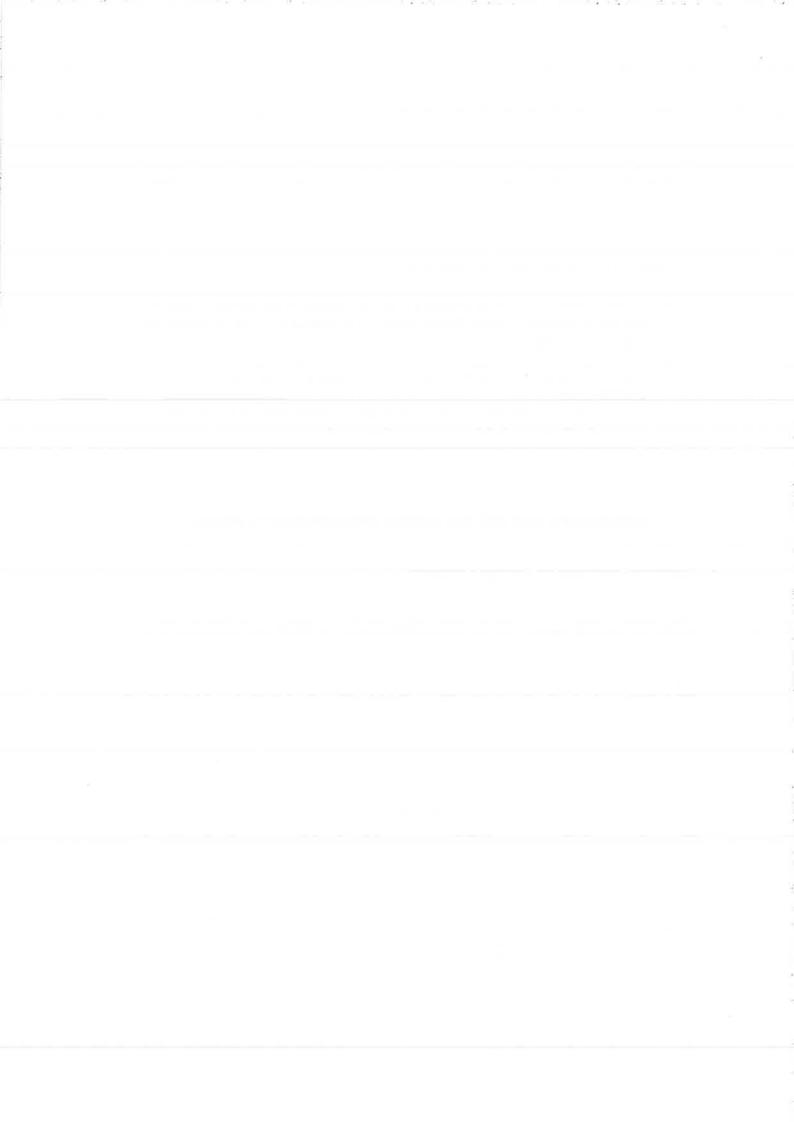
# 9. Chemical Analysis of Dredged Material

Please indicate whether material from the localised area has been chemically analysed within the past 3 years. If yes provide details (locations, dates and laboratory that carried out the analysis) please provide results on separate sheets. Please note that any delay in providing analysis results is liable to extend the time required to consider your application.

If the material has not been chemically analysed within the previous 3 years, contact should be made with DoE Marine Division. Marine Division will provide details of number of samples to be lifted, sample points and depth of samples. Analysis requirements attached as Appendix I.

# 10. Construction/Land Reclamation Projects

Please indicate in the answer to this question if the dredging operation is to be associated with any other project involving the placement of material in the sea (e.g. beach nourishment, marine/harbour construction operations, land reclamation, installation of outfalls etc.) If this is the case, please indicate if a separate Marine Construction/Land Reclamation/Beach Replenishment licence application has been made.



#### 11. Consultation with Conservation Bodies

Consenting authorities have a duty to ensure that any operations will not have a significant adverse environmental impact, particularly upon designated conservation areas (e.g. Areas of Special Scientific Interest (ASSIs)/Special Area of Conservation (SAC), Special Protection Area (SPA)/RAMSAR sites etc) listed under The Conservation (Natural Habitats, etc.) (Amendment) Regulations (Northern Ireland) 2007. If the applicant (particularly if they have statutory powers for consenting aspects of these works) has already been in consultation with the appropriate natureconservation body – NIEA, Natural Heritage Directorate, please supply any response that they may have given.

# 12. Designated Conservation Areas

Indicate whether the proposed works are located within or close to the boundaries of a conservation area such as an ASSI, SAC, SPA or Ramsar Site.

# 13. Statutory Consenting Powers

Please describe in the answer to this question what (if any) statutory responsibilities you (or your client) have to consent any aspect of the sea disposal operations. This isparticularly likely to apply to harbour or local authorities.

# 14. Environmental Assessment

Please indicate whether any environmental assessment has been carried out in respect of the proposed dredging operation, either under your own powers or as required by another authority. If such an assessment has been undertaken, please indicate if acopy has been provided with your application. If the statement/assessment has beencompleted but is not available, please provide an explanation in the box provided.

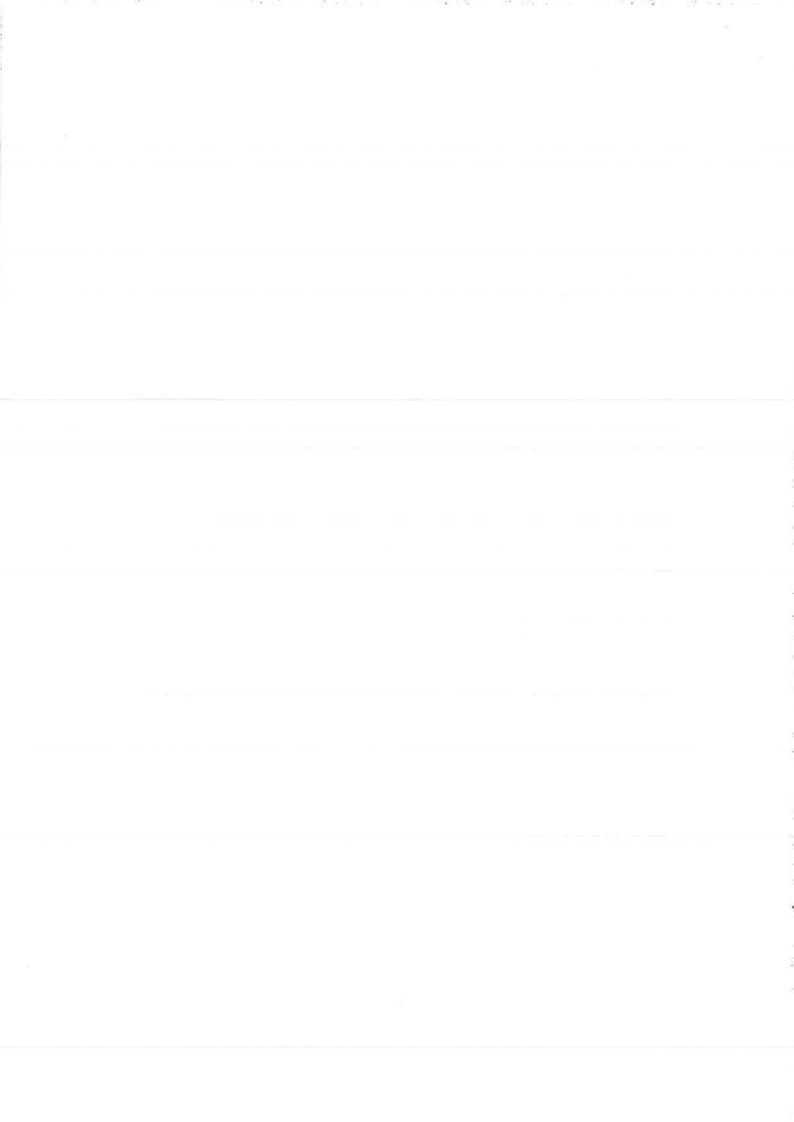
Additionally please also give detail regarding if and where a copy has been made/is being made available for public inspection.

# Other Considerations

Please ensure that you have:

- Completed all appropriate sections of the application form.
- Signed and dated the declaration
- Provided the relevant documentation, charts and continuation sheets and Enclosed the correct payment (refer to fees addendum) or paid by means of BACS (if appropriate)

Otherwise your application will be delayed or returned to you.



# Marine and Coastal Access Act 2009 (Part 4 Marine Licensing)

# Application to dredge in the Territorial Sea and UK Controlled Waters Adjacent to Northern Ireland

(e.g. Capital or Maintenance Dredging)

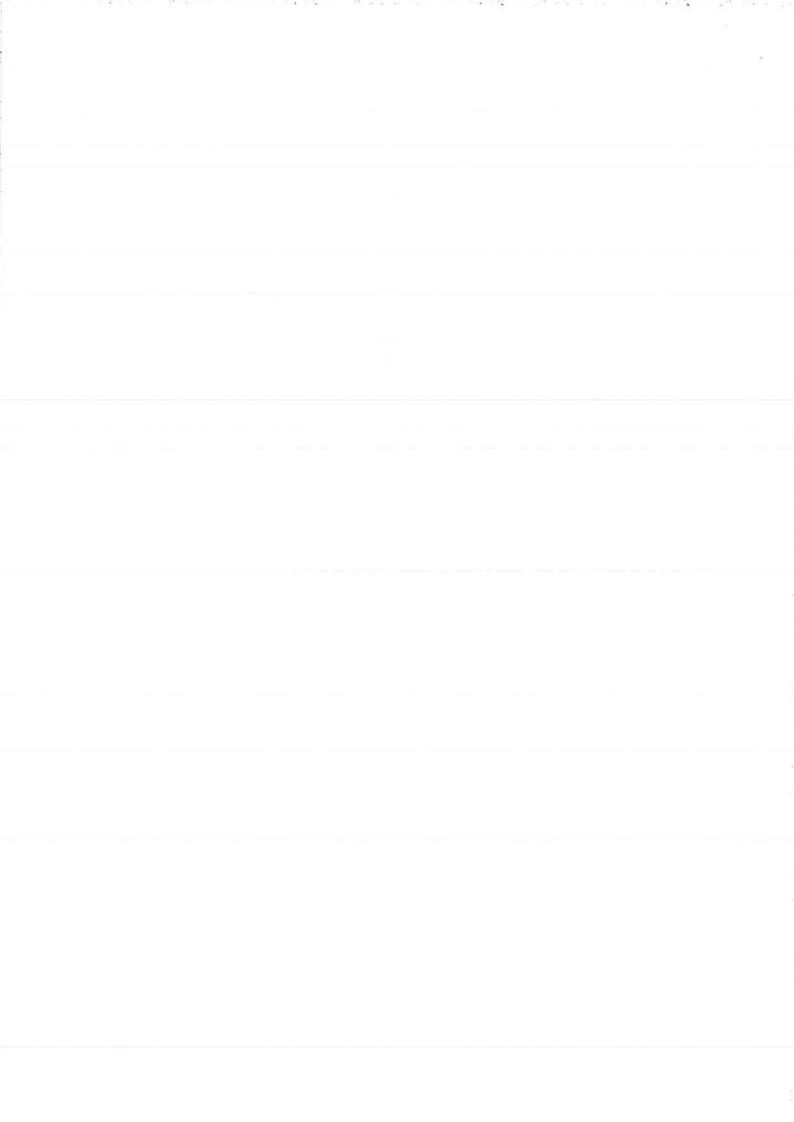
It is the responsibility of the applicant to obtain any other consents or authorisations that may be required

Under Part 4 (Chapter 5) of the Marine and Coastal Access Act 2009, information contained within or provided in support of this application will be placed on the public register unless DOE Marine Division (as the licensing authority) approves the applicant's reasons for withholding all or part thereof.

# **Public Register**

Is there any information contained within or provided in support of this application that you consider should not be included on the Public Register on the grounds that its disclosure:

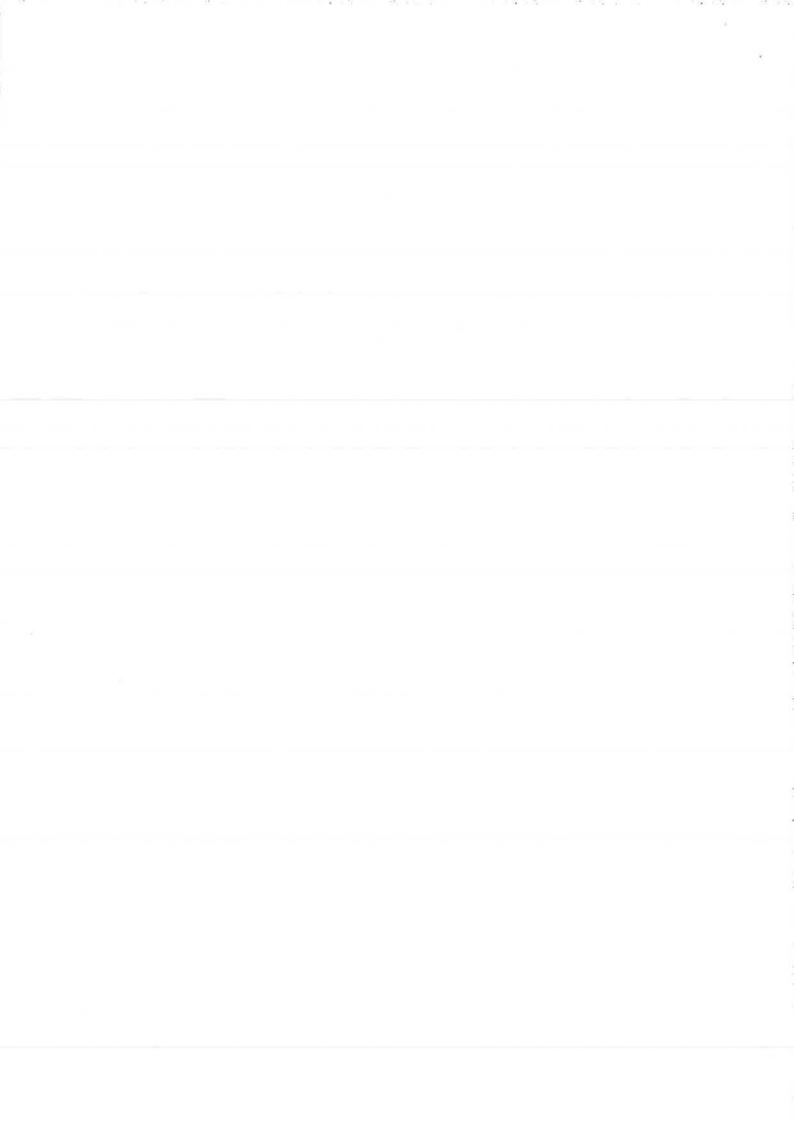
| 2. | would be contrary to the interests of national security   | Yes      |            | No    |
|----|---|----------|------------|-------|
| 3. | would prejudice to an unreasonable degree your or some other person's commercial interests or those of a third party? | Yes      |            | No    |
|    | es, to either (a) or (b), please provide full justification as to whormation you have provided should be withheld.    | ıy all c | or part of | f the |
|    |   |          |            |       |
|    |   |          |            |       |
|    |   |          |            |       |
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|    |   |          |            |       |



# 1. Project Title

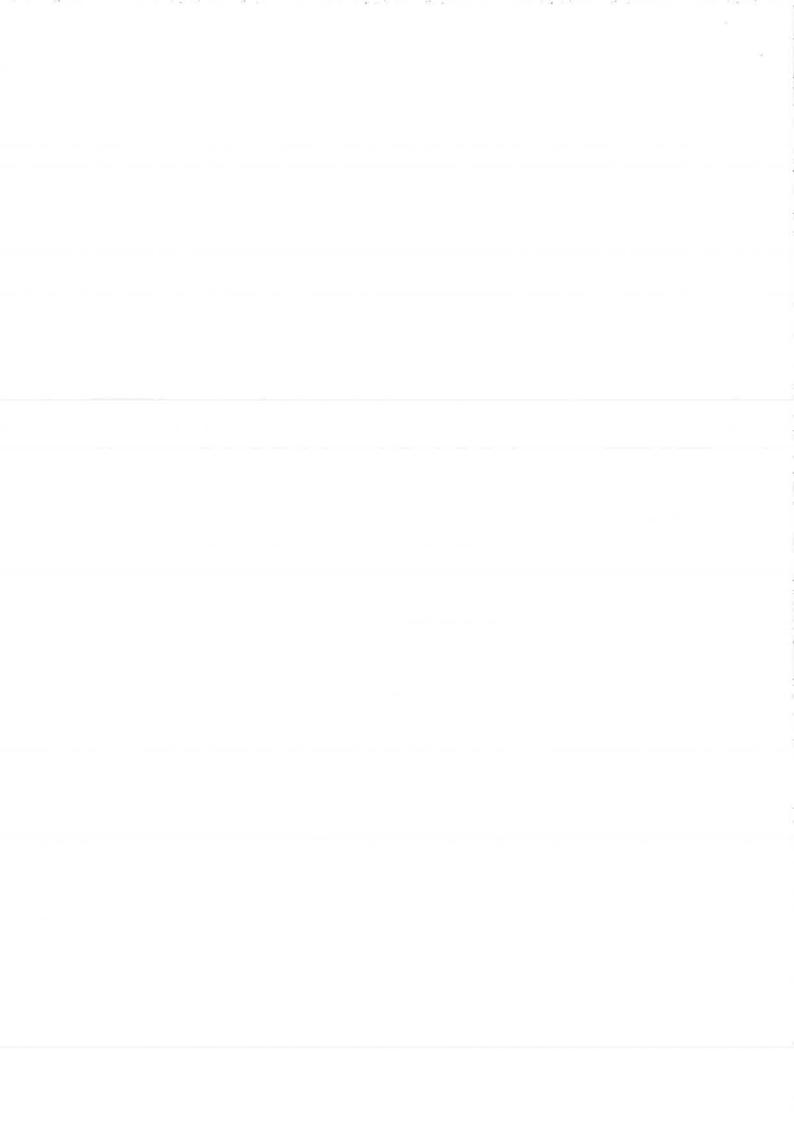
Please give a brief identifiable description, including the location of the proposed dredging work.

Construction of a new multi-purpose facility at D3 for berthing of cruise ships, and for lay-by and transient storage of project cargo, break bulk & dry bulk during cruise ship off-season. Development comprises the construction of 340m long solid quay with mooring dolphins, dredging of the berthing pocket & infilling behind the new quay wall using imported clean fill materials, construction of a 25m wide piled relieving slab along the quay length, with heavy duty paving surfacing on the quay/slab hinterland, access road, security gates, access barrier & kiosk at Airport Road West, modular terminal building, shore side facilities, lighting, fencing, and landscaping. The works are located at D3, within Belfast Harbour Estate, opposite Victoria Terminal 4.

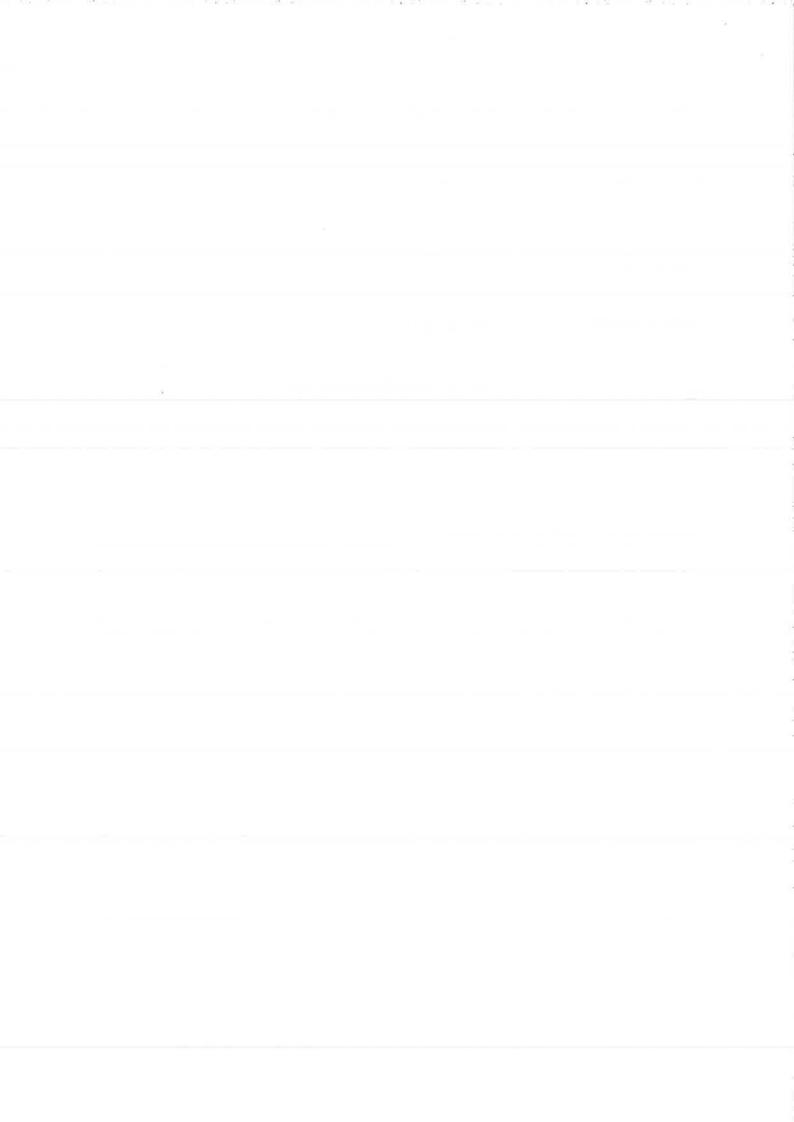


# **Applicant Details** Title (e.g. Mr/Mrs Initials Surname Miss/Dr) Trading title (if appropriate) **Belfast Harbour Commissioners** Address: (Inc Postcode) Harbour Office **Corporation Street** Belfast **BT11 3AL** Name of contact: (if different from above) Eugene McBride Telephone number: 02890 554422 (inc. code) Email address: e.mcbride@belfast-harbour.co.uk Company Registration number N/A - BHC are a Port Authority 2. Agent Details (if appropriate) Title (e.g. Mr/Mrs Initials **RPS** Surname Miss/Dr) **Trading Title RPS** (If different from above) **Business Address:** Elmwood House, 74 Boucher Road, Belfast BT12 6RZ

2.



| Name of contact:<br>(if different from above)   | Sinéad H   | enry |  |  |  |  |
|---|--|------|--|--|--|--|
| Position within company (if appropriate)  | Associate  |      |  |  |  |  |
| Telephone number:<br>(inc. code)  | 02890 66   | 7914 |  |  |  |  |
| Email address:  | sinead.henry@rpsgroup.com  |      |  |  |  |  |
| Company Registration No. NI20604  |  |      |  |  |  |  |
| 3. Details of Current/Previous Licence  |  |      |  |  |  |  |
| Licence Reference Number  |  | N/A  |  |  |  |  |
| Expiry Date   |  |      |  |  |  |  |
| 4. Duration of Dredging Operation   |  |      |  |  |  |  |
| When is the dredging operation  | When is the dredging operation proposed to commence?  December 2016          |      |  |  |  |  |
| When is the dredging operation proposed to be completed?  March 2017                          |  |      |  |  |  |  |
| Details of Disposal Operation  Has a Marine Sea Disposal Licence been applied for Yes/No  Yes |  |      |  |  |  |  |
| Associated Marine Sea Dispos  | Associated Marine Sea Disposal Licence Application number  Not yet available |      |  |  |  |  |



# 6. Method Statement for dredging operation

#### **Dredging**

As part of the D3 scheme, the proposed berthing pocket will be dredged to -9.8mCD. In order to achieve this, approximately 301,000m<sup>3</sup> of material must be removed.

An extensive land and marine-based site investigation was undertaken to inform the design and environmental assessment of the project. Extensive sampling and environmental testing was undertaken within the proposed dredge pocket, in accordance with the DoE Marine Division recommended sampling and testing regime.

The results of the environmental testing of the samples from the proposed dredge pocket showed a localised high TBT reading adjacent to the existing Kinnegar Jetty structure. For the purposes of the EIS, an exercise was undertaken to identify and quantify the worst-possible-case volume of TBT contaminated material within the proposed dredge footprint. This exercise is outlined in detail in Chapter 1 of the EIS. Based on this conservative approach, the volume of TBT contaminated material is estimated to be a maximum of 25,000m<sup>3</sup>.

Prior to commencement of the works, it is intended to undertake further sampling and testing in the area of this result, with the intention of refining and reducing the volume of material assumed to be TBT contaminated.

# Dredging Methodology- Uncontaminated Material

It is envisaged that a pontoon mounted backhoe dredger will be used for the dredging of uncontaminated material within the proposed berthing pocket. This material will be loaded into barges and disposed of at the identified sea disposal site, namely North Channel Disposal Ground (within a 0.5 nautical mile radius of 54° 45.3'N 05° 29.6'W). The dredging operation will be a 24/7 operation, with barges continuously travelling to and from the sea disposal site.

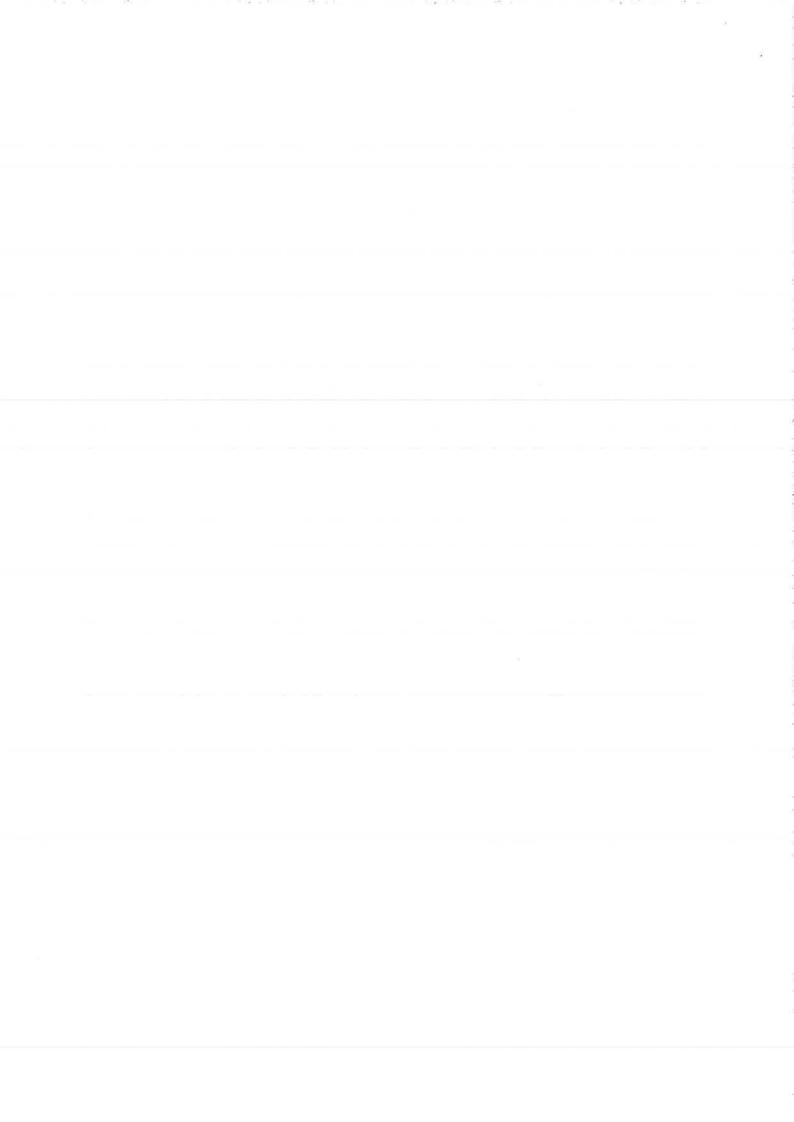
# Dredging Methodology- Contaminated Material

Dredging of contaminated material will be undertaken using a floating pontoon with an excavator mounted environmental bucket, or crane with a clamshell grab bucket. This method of environmental dredging will minimise the disturbance and escape of material at the seabed and during removal through the water column.

The environmental bucket/clamshell grab limits the potential for dispersion of TBT contaminated material throughout the harbour, as the bucket closes once the material is placed inside and effectively reduces the generation of suspended solids. The dredged material will be loaded onto a barge for transportation to the licensed and planning approved Musgrave TBT disposal area, located in Musgrave Channel within the harbour. No overspill of the barges will be permitted.

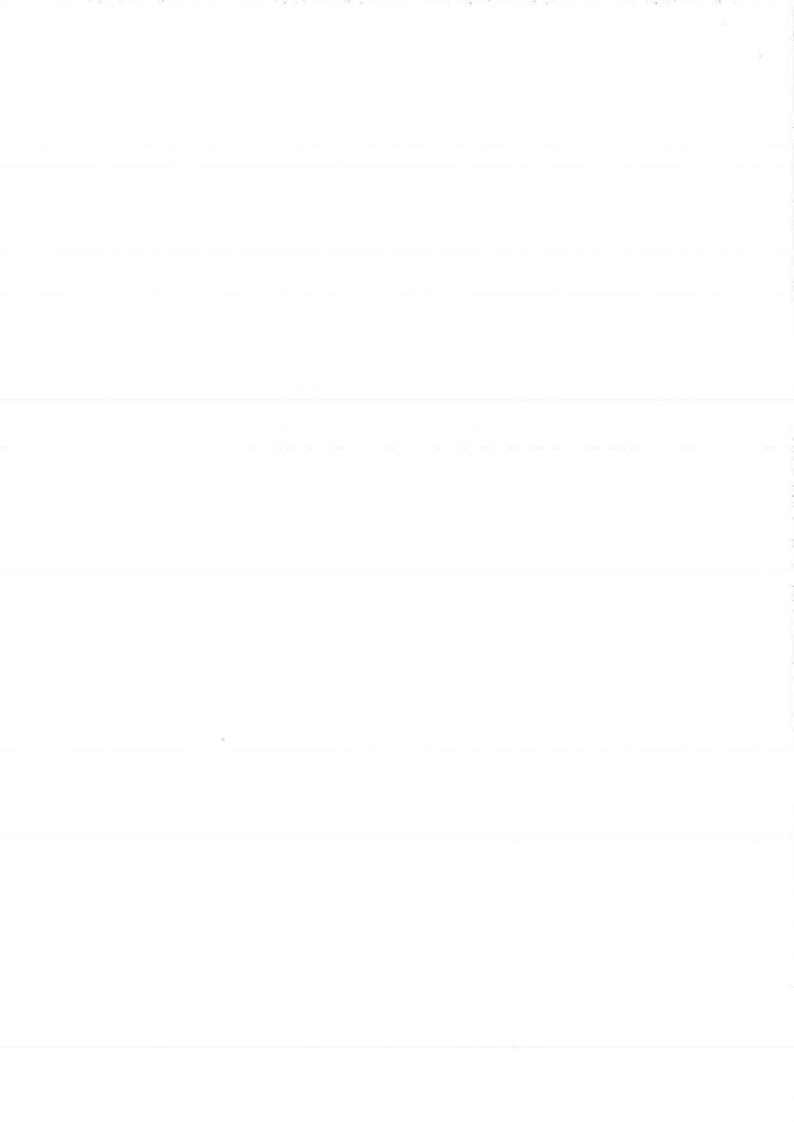
The barge will berth alongside Commissioning Quay, where the material will be either craned using a clamshell bucket, or dredge pumped across the Commissioning Quay into the disposal area. It is envisaged that the environmental dredging will be a 12hour day operation.

| If necessary, please continue on a separate sheet and tick this box |  |  |
|---|--|--|
|---|--|--|



# 7. Description of proposed dredged material

| Type of Material (delete as appropriate)  | Capital/ <del>Maintenance</del>  |  |  |  |  |
|---|--|--|--|--|--|
| Amount of Material to be deposited (met (Volume based on 301,000m³ x 1.9m³/T co.        | tric tonnes) 571,900T<br>nversion factor- as agreed with DoE Marine Division |  |  |  |  |
| Nature of Material i.e. River Bed, Sea Harbour, Approach Channel, EstuaryHarbour seabed |  |  |  |  |  |
| Description of area from where dredge material has originated                           |  |  |  |  |  |
| Co-ordinates (Lat/Long) or (IGR) 337  | 195, 378300 (Easting and Northing to IGR)                                    |  |  |  |  |
| (Co-  | ords at centre point of proposed dredge pocket)                              |  |  |  |  |
| Depth of Material to be Removed (m)   | ranges between 5-9m depth  |  |  |  |  |
| Date Last Dredged   | N/A  |  |  |  |  |



# 8. Chemical Analysis of Dredged Material

Has the proposed dredged material been chemically analysed in the previous 3 years? (delete as appropriate)

Yes\*\*/No

\*\* If Yes please provide the details below.

Location of sampling for analysis

Refer to sampling plans outlined below:

- Surface sample locations shown on drawing IBM0592-SK-02 Rev A
- Samples at depth shown on drawing IBM0592-SI-100 Rev H

Date analysis carried out

Surface samples tested July 2015

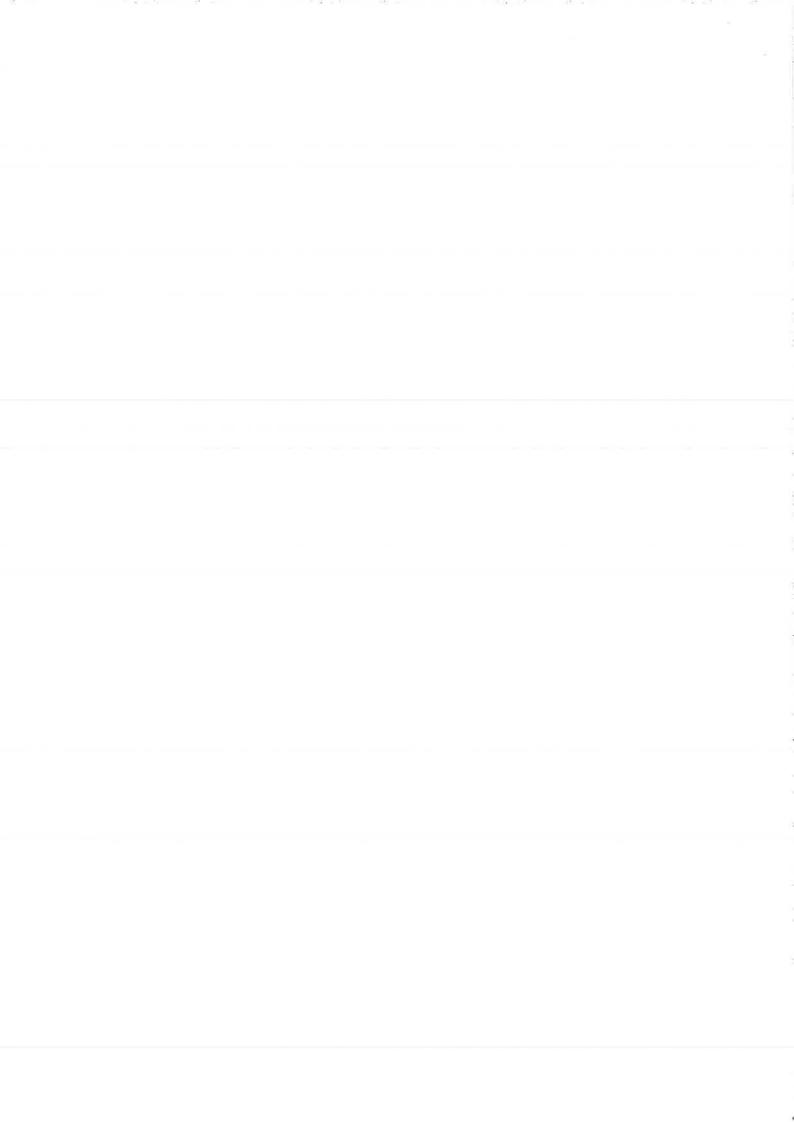
Samples at depth tested Oct 2015-Jan 2016

Laboratory

Surface samples: RPS Mountainheath, Letchworth

Samples at depth: National Laboratory Service

<sup>\*\*</sup>Please attach results to this application



# 9. Construction/Land Reclamation Projects

| Do you intend to apply for, or have applied for a marine construction licence as part o |
|---|
| the works? (e.g. harbour works, land reclamation, installation of outfalls etc.)        |

Yes

No

If Yes, please indicate the location of the proposed works and a give a briefdescription below.

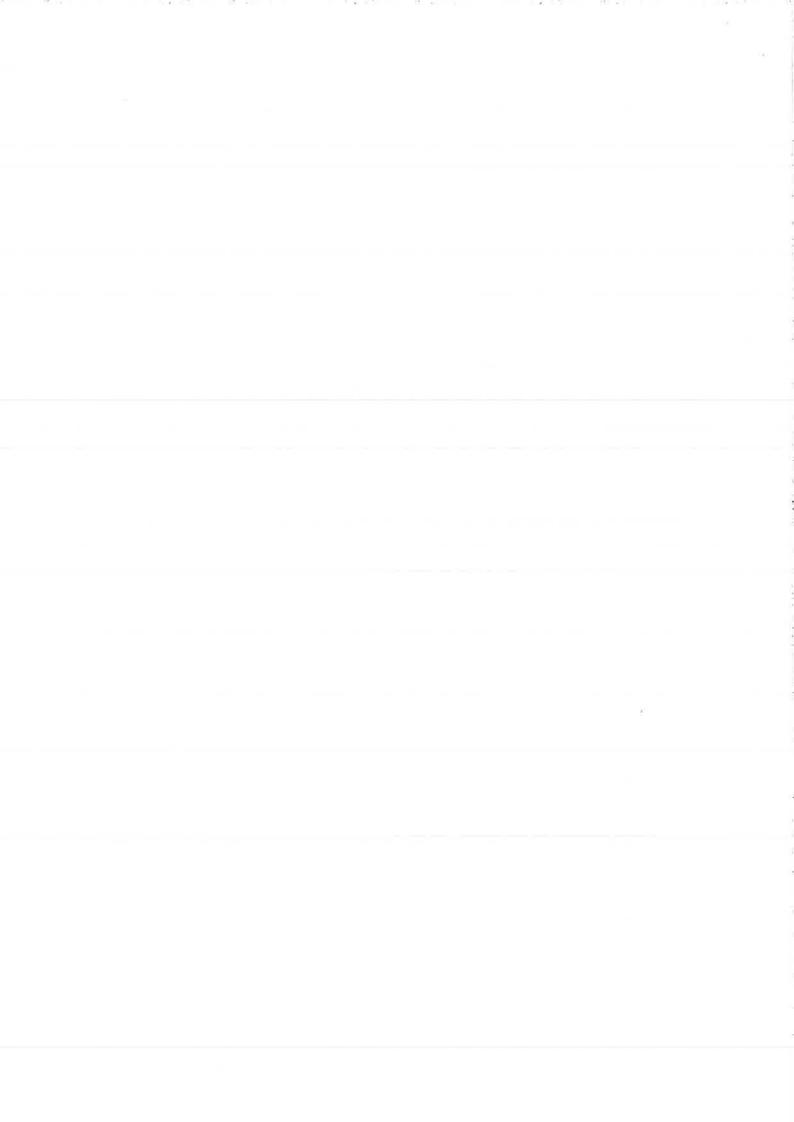
The site of the proposed works is at D3, which is located at the northern extent of Belfast Harbour, on the Co. Down side of the Victoria Channel, opposite Victoria Terminal 4. This area is currently designated as operational land and used for open storage and to provide car parking for events. The proposal is to construct a new quay wall, offset approximately 60m out from the existing revetment at D3, towards the navigation channel.

The key marine-based elements comprise:

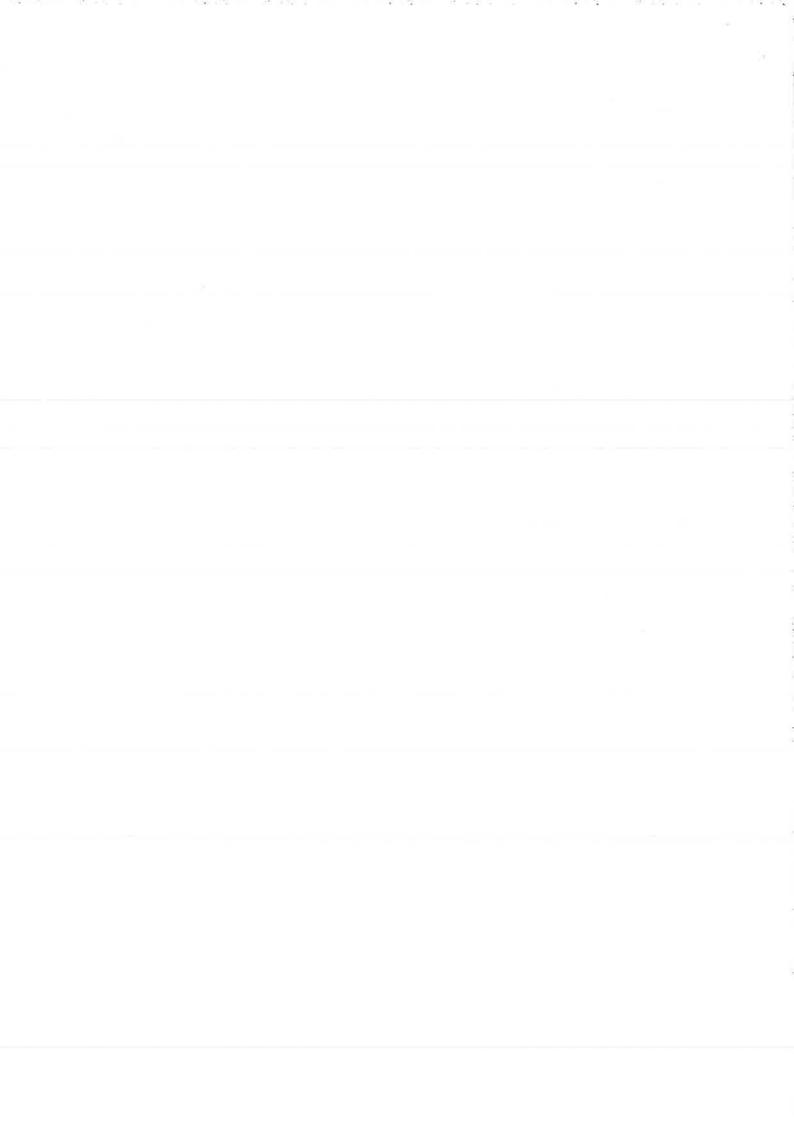
- Construction of a 340m long steel piled combi-wall, with 2nr 60m long return piled walls to tie into
  existing revetment at D3. A reinforced concrete capping beam will be cast along the top of the steel
  combi-wall, with mooring bollards and fenders cast into the beam at required spacings.
- Imported clean infill material will be used to fill behind the new quay structure, creating circa 4.81acres of land reclamation. This will be suitably compacted during placement.
- A 25m wide reinforced concrete piled relieving slab will be cast along the back of the capping beam. This will be buried circa 2m below finished deck level.
- 3nr mooring dolphins will be constructed to the south of the new quay. Each dolphin will consist of steel tubular raking piles and a reinforced concrete pile cap. Steel walkways will be installed between the dolphins, connecting them to the main quay structure.
- Dredging of approximately 301,000m³ of material will be carried out to provide the required berthing pocket to a depth of -9.8mCD. In order to facilitate the proposed dredging, existing navigation pile 18 will be relocated approximately 100m southwards of its current position to remove it from the proposed dredge pocket. The controlled removal of Kinnegar Jetty will also be undertaken to facilitate the dredging of the required berthing pocket.
- Heavy duty flexible pavement surfacing will be provided across the quay hinterland area. Services such as drainage, water, power and telecoms/CCTV will be provided across the hinterland area.
- 8nr 25m high lattice tower lights will be provided across the quay hinterland area.
- The existing access into D3 will be modified to permit the construction of a vehicular access road to connect the quay hinterland area to Airport Road West. A controlled access barrier and security kiosk will be provided at the entrance to the access road. 8m high street lighting columns will be provided along the access road and around the perimeter of the hinterland area. ISPS (port security) fencing will be installed along the perimeter of the proposed hinterland and access road.
- A modular building will be provided on the quayside for use during the cruise season.

# 10. Consultation with Conservation Bodies

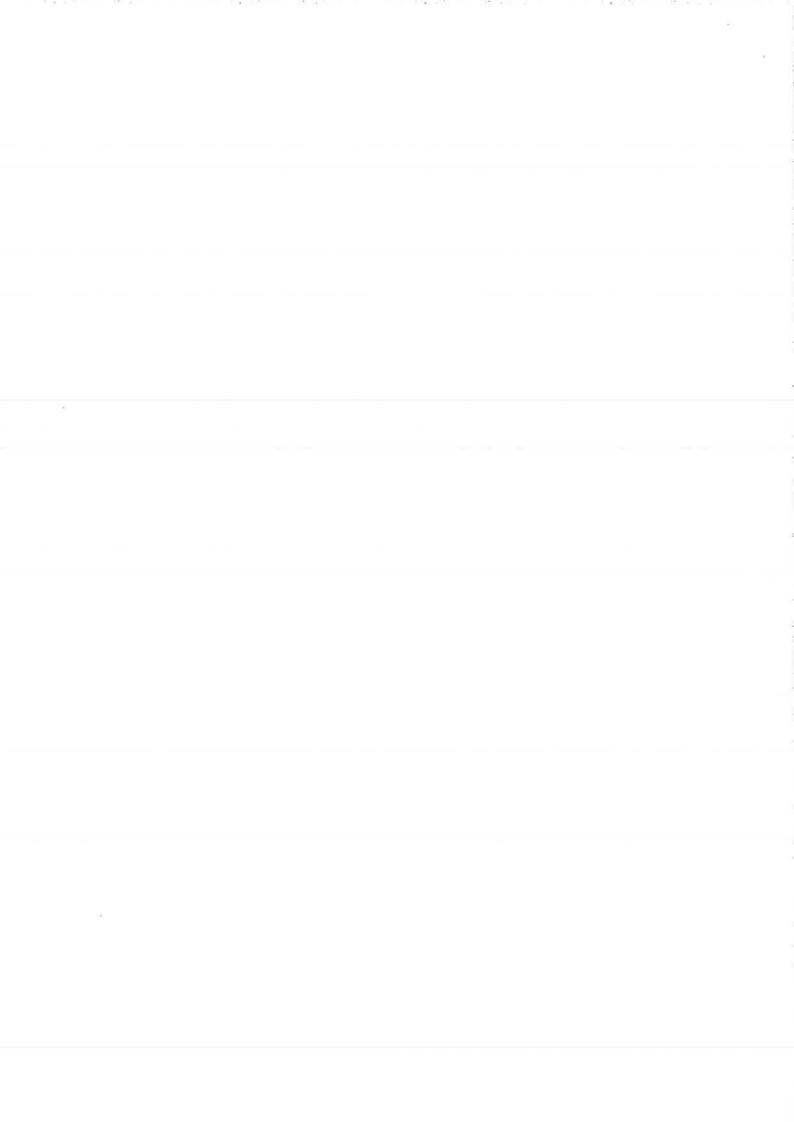
Please provide details of any consultation that has taken place with Natural Heritage (NH) of NIEA, and if appropriate include copies of any correspondence with your application. (See Appendix 1)



| 11  | . Designate                      | ed Conse             | ervatio          | 1 Areas     |   |           |             |              |               |    |
|-----|----------------------------------|----------------------|------------------|-------------|---|-----------|-------------|--------------|---------------|----|
|     | Are any pa                       |                      |                  |             | erations loca                                 | ated with | in the      | bound        | aries of a    |    |
|     | Yes                              |                      | No               | √(pSPA      | not yet design                                | nated)    |             |              |               |    |
|     | within 5kild                     | metres, <sub>l</sub> | olease i         | indicate a  | st such site<br>pproximate<br>om this boun    |           |             |              | 0.25 kms      | ]  |
| 12  | . Statutory                      | Consent              | ing Po           | wers        |   |           |             |              |               |    |
|     | Do you, or this project          |                      | priate) <u>y</u> | your client | t, have statu                                 | itory pow | ers to      | conser       | nt any aspect | of |
|     | Yes                              |                      | No               | √           |   |           |             |              |               |    |
|     | If <b>Yes</b> , plea             | ase give o           | details          |             |   |           |             |              |               |    |
|     |                                  |                      |                  |             |   |           |             |              |               |    |
| 13. | Environm                         | ental As             | sessm            | ent         |   |           |             |              |               |    |
|     | to support                       | any appli            | cation i         | n respect   | een undertal<br>of the works<br>ble) or any o | s,        | Yes<br>son? | $\sqrt{}$    | No            |    |
|     | If <b>Yes</b> , is a application |                      | ne asse          | ssment in   | cluded with                                   | this      | Yes         | $\checkmark$ | No            |    |
|     | If the asses<br>please prov      |                      |                  |             |   | ot been i | nclude      | ed with      | the applicati | on |
|     |                                  |                      |                  |             |   |           |             |              |               |    |



| Is the environmental assessment available for public inspection?   | Yes       | 1        | No              |  |
|--|-----------|----------|-----------------|--|
| If Yes at what locations:  |           |          |                 |  |
| The Environmental Statement is available on the Plant to be confirmed as soon as possible).  | ning Port | al (plar | nning reference |  |
| The Environmental Statement is also available for viewing and purchase at the Belfast Harbour Commissioners Office, Belfast Harbour, Corporation Street, Belfast BT11 3AL. |           |          |                 |  |



# Declaration

I declare that the information given in this form and related papers is to the best of my knowledge and belief true.

# WARNING

It is an offence under the Act under which this application is made to fail to disclose information or to provide false or misleading information.

| Signature of applicant: (or agent acting on behalf of applicant) |              |
|--|--------------|
| Date:  | 07.03.16     |
| Name (Block Letters):  | SINEAD HENRY |
| Position within company: (if applicable)                         | ASSOCIATE    |

PLEASE CHECK CAREFULLY THE INFORMATION YOU HAVE GIVEN AND THAT ALL ENCLOSURES (INCLUDING COPIES) HAVE BEEN INCLUDED

