

## **Deposit of Solid Waste (e.g. Dredged Material) 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

02890 569247 or email

[MarineLicensingTeam@doeni.gov.uk](mailto: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**

### **2. Applicant**

The person, company or organisation making the application. (The licensee will be the contractor actually carrying out the disposal 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, management or deposit 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 the current sea disposal 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 Sea Disposal 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 Vessel(s)**

The name, operator and type of vessel being used for the disposal operation should be entered. If vessel details are not available at the time of application, please indicate this on the form as these details will be included within a licence.

### **7. Method Statement**

Please include a full method statement of the disposal operation. This should include details of proposed frequency of disposal trips per day, average estimated time from dredge site to licensed sea disposal site.

### **8. Description of Material for Sea Disposal**

The applicant should indicate the following:

- Amount of material to be disposed of in metric tonnes. A conversion factor of 1.4 tonnes/m<sup>3</sup> should be used for maintenance dredge and capital dredge material.
- 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.
- Description of where the dredged material has originated (Lat/Long, depth of material removed, date last dredged)

## **9. Chemical Analysis of Material to be Disposed of at Sea**

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 deposit of dredgings is 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. Best Practicable Environmental Option (BPEO)**

Please give a very brief summary of the conclusions drawn in the BPEO assessment. Please note that sea disposal licence applications will not be considered unless they are accompanied by such an assessment. All options in the BPEO should be explored fully (as per the guidance document), otherwise your application form and BPEO may be returned to you thereby delaying the processing of the application. See Appendix II for BPEO Assessment and guidance.

## **12. 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 nature conservation body – NIEA, Natural Heritage Directorate, please supply any response that they may have given.

## **13. 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.

## **14. 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 is particularly likely to apply to harbour or local authorities.

## **15. Environmental Assessment**

Please indicate whether any environmental assessment has been carried out in respect of the proposed sea disposal operations, either under your own powers or as required by another authority. If such an assessment has been undertaken, please indicate if a copy has been provided with your application. If the statement/assessment has been completed 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.

## **16. Sea Disposal Site**

The details of the licensed sea disposal site to be used will be communicated to the licensee by DoE Marine Division in the sea disposal licence.

Should you wish to establish a new site, please provide details in a covering letter with your application and DoE Marine Division will contact you to discuss your proposal before your application is determined. It must be noted that an application to open a

new sea disposal site will not be considered unless sufficient need and reasoning are established for such. It will be preferable on all occasions that an open existing site is used. The cost of any environmental investigations from baseline surveys to identify any new disposal site will normally be the responsibility of the applicant.

### **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 deposit Solid Waste (e.g. Dredged Material) in the Territorial Sea and  
UK Controlled Waters Adjacent to Northern Ireland  
(e.g. from dredging operations.)**

**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 ☒

If **Yes**, to either (a) or (b), please provide full justification as to why all or part of the  
information you have provided should be withheld.

## 1. Project Title

Please give a brief identifiable description, including the location of the works.

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. Disposal at sea is at the North Channel Disposal Ground.

## 2. Applicant Details

Title (e.g. Mr/Mrs  
Miss/Dr)

Initials

Surname

Belfast Harbour  
Commissioners

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:  
(inc. code)

02890 554422

Email address:

e.mcbride@belfast-harbour.co.uk

Company Registration number

N/A - BHC is a Port Authority

### 3. Agent Details (if appropriate)

Title (e.g. Mr/Mrs Miss/Dr)  Initials  Surname

Trading Title  
(If different from above)

Business Address:

Name of contact:  
(if different from above)

Position within company  
(if appropriate)

Telephone number:  
(inc. code)

Email address:

Company Registration No.

### 4. Details of Current/Previous Licence

Licence Reference Number

Expiry Date

Quantity (metric tonnes) deposited  
under current licence as at (date)



## 5. Duration of Sea Disposal Operation

When is the sea disposal operation proposed to commence?

December 2016

When is the sea disposal operation proposed to be completed?

March 2017

## 6. Details of Disposal Vessel(s)

Name of Vessel and Operator (if known)

To be advised upon appointment of Contractor

Type of Vessel

To be advised upon appointment of Contractor

(e.g. Bottom Doors/Split Hopper)

## 7. Method Statement for disposal operation

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 & Disposal 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 & Disposal 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

☐

## 8. Description of Material for Sea Disposal

Type of Material (delete as appropriate)

Capital/~~Maintenance~~

Amount of Material to be deposited (metric tonnes)

571,900T

(Volume based on  $301,000m^3 \times 1.9m^3/T$  conversion factor-as agreed with DoE Marine Division)

Nature of Material i.e. River Bed,

Sea Harbour, Approach Channel, Estuary

... Harbour seabed.....

Description of area from where dredge material has originated

Co-ordinates (Lat/Long) or (IGR)

337195, 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.....

## 9. Chemical Analysis of Material

Has the material to be disposed of  
at sea 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,

\*\*Please attach results to this application

## 10. Construction/Land Reclamation Projects

Do you intend to apply for, or have applied for a marine construction licence as part of 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 give a brief description 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 4.81 acres 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 301,000m<sup>3</sup> 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.

## 11. Best Practicable Environmental Option (BPEO)

### BPEO Assessment Summary

An extensive land and marine-based site investigation was undertaken to inform the design and to determine the properties of the material to be dredged, facilitating an assessment for its beneficial re-use.

The results of the site investigation showed that the material to be dredged is predominantly soft alluvium clays and silts. Material of this nature is not suitable for re-use as infill material without extensive geotechnical treatment. It is therefore considered impractical to improve the engineering properties of the material to a level that it is suitable for beneficial re-use.

Another option considered was to bring the dredged material ashore and store for a potential future use within the harbour. This would necessitate double or potentially triple handling which is considered impractical. In addition to this, to store the 301,000m<sup>3</sup> of dredge material on the D3 footprint, would necessitate stockpiling circa 2m high. Again, this is not considered feasible.

Historically, sea disposal has been deemed to be the Best Practicable Environmental Option for the dredging of the inner harbour bed sediments.

On the basis of the above, we consider that sea disposal is the BPEO for the material generated by the dredging of the D3 berthing pocket.

## 12. 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)

## 13. Designated Conservation Areas

Are any parts of the sea disposal operations located within the boundaries of a designated conservation area?

Yes

✓ (pSPA not yet designated)

No

☐

If **No**, and the boundary of the nearest such site is within 5kilometres, please indicate approximate distance of the disposal operation from this boundary.

kms

#### 14. Statutory Consenting Powers

Do you, or (if appropriate) your client, have statutory powers to consent any aspect of this project?

Yes ☐ No ☒

If Yes, please give details

#### 15. Environmental Assessment

Has an environmental assessment been undertaken to support any application in respect of the works, your own statutory powers (if applicable) or any other reason? Yes ☒ No ☐

If Yes, is a copy of the assessment included with this application? Yes ☒ No ☐

If the assessment has been undertaken but has not been included with the application, please provide an explanation below.

Is the environmental assessment available for public inspection?

Yes ☒

No

☐

If **Yes** at what locations:

The Environmental Statement is available on the Planning Portal (planning reference to be confirmed as soon as possible).

The Environmental Statement is also available for viewing and purchase at the Belfast Harbour Commissioners Office, Belfast Harbour, Corporation Street, Belfast BT11 3A

## 16. Sea Disposal Site

If you wish to establish a new sea disposal site please indicate here, and Marine Licence will contact you. Otherwise you will be informed of which site should be used and its coordinates.

I wish to establish a new sea disposal site

Yes

☐

No ☒

### 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**

