

Headquarters
P.O. Box 3000
Johnstown Castle Estate
County Wexford
Ireland

DUMPING AT SEA PERMIT

Permit Register Number:	S0021-01
Permit Holder:	Port of Cork Company, Custom House Street, Cork, County Cork.
Location of Loading:	Ringaskiddy
Location of Dumping:	Western Celtic Sea

DUMPING AT SEA ACTS 1996 TO 2009

DUMPING AT SEA PERMIT

Decision of the Agency, under Section 5(1) of the
Dumping at Sea Acts 1996 to 2009

Reference number: S0021-01

The Agency in exercise of the powers conferred on it by the Dumping at Sea Acts 1996 to 2009, for the reasons hereinafter set out, hereby grants this dumping at sea permit to Port of Cork Company, subject to conditions, as set out in the schedule attached hereto.

The permit authorises the loading and dumping at sea of dredged material from Ringaskiddy subject to conditions.

A copy of the Decision is attached.

Loading and dumping at sea of a substance or material, in accordance with the Dumping at Sea Acts 1996 to 2009

GIVEN under the Seal of the Agency this 22nd day of July 2015

PRESENT when the seal of the Agency
was affixed hereto:



Mary Turner, Authorised Person



INTRODUCTION

This introduction is not part of the permit and does not purport to be a legal interpretation of the permit.

This permit is for the loading and dumping at sea of dredged material arising from capital dredging by Port of Cork Company as part of the Ringaskiddy Port Redevelopment Project. Under this permit, the maximum quantities of dredged material permitted to be loaded and dumped at sea shall be 135,000 tonnes from Ringaskiddy East and 322,500 tonnes from Ringaskiddy West. Loading shall be carried out using a trailing suction hopper dredger at Ringaskiddy West and using a backhoe dredger and/or a trailing suction hopper dredger at Ringaskiddy East. The loaded material shall be dumped at sea at an established dumping site located at the entrance to Cork Harbour. Chemical analysis has confirmed that the material in question is essentially clean sediment that is suitable for dumping at sea. The permit holder is required to manage the permitted activities to ensure the protection of the marine environment and to submit reports on the loading and dumping activities and monitoring results to the Agency.

The permit sets out in detail the conditions under which Port of Cork Company will carry out loading and dumping at sea.

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Glossary of Terms

All terms in this permit should be interpreted in accordance with the definitions in the Dumping at Sea Acts 1996 to 2009, unless otherwise defined in the section.

AER	Annual Environmental Report
Agreement	Agreement in writing.
Annually	All or part of a period of twelve consecutive months.
Application	The application by the permit holder for this permit.
Attachment	Any reference to Attachments in this permit refers to attachments submitted as part of this permit application.
CEN	Comité Européen De Normalisation – European Committee for Standardisation.
Chart	Any reference to a chart or chart number means a chart or chart number contained in the application, unless otherwise specified in this permit.
Closed period	Period of time when loading and/or dumping at sea is prohibited in order to protect designated species or sites.
Competent laboratory	A testing facility meeting the general management and technical requirements of EN ISO/IEC-17025 standard, or other equivalent standards accepted at international level and utilising methods of analysis, including laboratory, field, and on-line methods, which are validated and documented in accordance with the above standard(s) for the specific tests.
Documentation	Any report, record, results, data, drawing, proposal, interpretation or other document in written or electronic form which is required by this permit.
Dumping	(a) any deliberate disposal in the maritime area (including side-cast dredging, plough dredging, water injection dredging and other such dredging techniques) of a substance or material from or in conjunction with a vessel or aircraft or offshore installation, (b) any deliberate disposal in the maritime area of vessels, aircraft or offshore installations.
Drawing	Any reference to a drawing or drawing number means a drawing or drawing number contained in the application, unless otherwise specified in this permit.
Environmental damage	As defined in Directive 2004/35/EC.
EPA	Environmental Protection Agency.
Exclusive economic zone	The outer limit of the exclusive economic zone is the line every point of which lies at a distance of 200 nautical miles from the nearest point of the baseline
Harbour Authority	As defined in Section 1 of the Dumping at Sea Acts 1996 to 2009.

Incident	<p>The following shall constitute as incident for the purposes of this permit:</p> <ul style="list-style-type: none">(i) an emergency;(ii) any loading or dumping at sea activity which does not comply with the requirements of this permit;(iii) any indication that environmental pollution has, or may have, taken place.(iv) a complaint of an environmental nature.
Inland waters	All sea areas which lie on the landward side of the baseline of the territorial seas.
Maintain	Keep in a fit state, including such regular inspection, servicing, calibration and repair as may be necessary to perform its function adequately.
Map	Any reference to a map or map number means a map or map number contained in the application, unless otherwise specified in this permit.
Master	The person having the command or charge of the vessel.
Noise-sensitive location (NSL)	Any dwelling house, hotel or hostel, health building, educational establishment, place of worship or entertainment, or any other facility or area of high amenity which for its proper enjoyment requires the absence of noise at nuisance levels.
NPWS	National Parks and Wildlife Service.
OSPAR	Convention for the Protection of the Marine Environment of the North-East Atlantic
Permit Holder	Port of Cork Company, Custom House Street, Cork, County Cork.
Position	Latitude and longitude coordinates in degrees and decimal minutes, based on the WGS 84 datum.
Sample(s)	Unless the context of this permit indicates to the contrary, the term sample(s) shall include measurements taken by electronic instruments.
SOP	Standard operating procedure.
Standard Method	A National, European or internationally recognised procedure (e.g., I.S. EN, ISO, CEN, BS or equivalent); or an in-house documented procedure based on the above references; a procedure as detailed in the current edition of "Standard Methods for the Examination of Water and Wastewater" (prepared and published jointly by A.P.H.A., A.W.W.A. & W.E.F.), American Public Health Association, 1015 Fifteenth Street, N.W., Washington DC 20005, USA; or an alternative method as may be agreed by the Agency.
The Agency	Environmental Protection Agency.
The Maritime Area	<p>Comprises</p> <ul style="list-style-type: none">(i) the inland waters and territorial seas of the State, and the seabed and subsoil beneath them,(ii) any area for the time being standing designated by order under section 2 of the Continental Shelf Act 1968 for the purposes of that Act, and the waters above it, and

(iii) the exclusive economic zone of the State.

Triennially

Once every three years.

Decision & Reasons for the Decision

The Environmental Protection Agency is satisfied, on the basis of the information available, that subject to compliance with the conditions of this permit, the loading and dumping activities will comply with and will not contravene any of the requirements of Section 5 of the Dumping at Sea Acts 1996 to 2009.

In reaching this decision the Environmental Protection Agency has considered the application and supporting documentation received from the applicant, all comments and observations received from other parties and the report of its inspector.

An Appropriate Assessment has been completed and has determined, based on best scientific knowledge in the field and in accordance with the European Communities (Birds and Natural Habitats) Regulations 2011 and 2013, pursuant to Article 6(3) of the Habitats Directive, that the proposed activity, individually or in combination with other plans or projects, will not adversely affect the integrity of a European Site(s) in particular Cork Harbour SPA, Great Island Channel SAC and Ballycotton Bay SPA having regard to their conservation objectives and will not affect the preservation of these sites at favourable conservation status if carried out in accordance with this permit and the conditions attached hereto for the following reasons:

- The material to be loaded and dumped consists of essentially clean sediment;
- The RP contains conditions to minimise the release of suspended solids into the water column during loading (Condition 3.11 and 3.12)
- Condition 3.9 of the RP limits the use of a plough dredger to the removal of any high spots that remain following completion of the loading activity by the trailing suction hopper dredger or backhoe dredger;
- Condition 3.10 of the RP requires the permit holder to implement best practice to minimise the environmental impact of the loading and dumping activity;
- Condition 3.15 of the RP requires that all mitigation measures and environmental commitments set out in the Natura Impact Statement submitted as part of the application for this permit shall be implemented.

In light of the foregoing reasons, no reasonable scientific doubt remains as to the absence of adverse effects on the integrity of the Cork Harbour SPA, Great Island Channel SAC and Ballycotton Bay SPA.

Part I Schedule of Activities Permitted

In pursuance of the powers conferred on it by the Dumping at Sea Acts 1996 to 2009, the Environmental Protection Agency (the Agency), under Section 5 of the said Acts, grants this Dumping at Sea Permit to Port of Cork Company. The permit authorises the loading and dumping at sea activities, subject to conditions listed in Part II, with the reasons therefor and the associated schedules attached thereto.

Part II Conditions

Condition 1. Scope

1.1 Statutory Obligations

1.1.1 This permit is for the purposes of loading and dumping at sea under the Dumping at Sea Acts 1996 to 2009, only and nothing in this permit shall be construed as negating the permit holder's statutory obligations or requirements under any other enactments or regulations.

1.1.2 This permit may be technically amended, as and when considered necessary by the Agency.

1.2 The material or substance to which this permit relates shall be dredged material loaded from that part of the sea specified in *Schedule A: Limitations*, of this permit.

1.3 For the purposes of this permit, the locations of the two loading areas, Ringaskiddy East and Ringaskiddy West, authorised by this permit are in those parts of the sea outlined in black on Drawing No. IBM0563-DS-002 of Attachment D.2 to the permit application. Any reference in this permit to "loading areas" shall mean the areas thus outlined. The permitted loading activity shall be carried on only within the areas outlined.

1.4 For the purposes of this permit, the location of the dumping site authorised by this permit is in that part of the sea bounded by the coordinates specified in *Schedule A.2* of this permit and shaded in green in Figure 1 of Attachment E.1 to the permit application. Any reference in this permit to "dumping site" shall mean the area thus outlined. The permitted dumping activity shall be carried out only within the area outlined.

1.5 Loading and dumping at sea shall be limited as set out in *Schedule A: Limitations* of this permit.

1.6 Loading and dumping at sea shall be controlled and operated as set out in the permit. All programmes required to be carried out under the terms of this permit become part of this permit.

1.7 No change to the loading and dumping activities authorised by this permit shall be carried out or commenced without the prior written agreement of the Agency.

Reason: To clarify the scope of this permit.

Condition 2. Management of the loading and dumping at sea activities

2.1 The permit holder shall ensure that all or any of the following:

- litter
- man-made debris

associated with, or arising from, the permitted activities do not result in an impairment of, or an interference with, amenities or the environment.

2.2 Loading and dumping activities shall be carried out during daytime only.

2.3 Noise

2.3.1 The permit holder shall adopt all reasonably practicable measures to minimise the noise impact of the permitted activities at noise-sensitive locations (NSLs).

2.3.2 Noise from the permitted activities shall not cause a nuisance at any NSLs.

- 2.4 The permit holder shall ensure that personnel performing specifically assigned tasks shall be qualified on the basis of appropriate education, training and experience as required and shall be aware of the requirements of this permit.
- 2.5 The permit holder shall ensure that a nominated, suitably qualified and experienced person is present at all times when activities covered by this permit are ongoing.
- 2.6 The permit holder shall notify the Agency at least two weeks prior to the commencement of the loading and dumping activities.
- 2.7 Documentation
- The permit holder shall issue a copy of this permit to all relevant personnel whose duties relate to any condition of this permit.
- 2.8 Corrective Action
- The permit holder shall initiate an investigation and corrective action in the event of a reported non-conformity with this permit to the satisfaction of the Agency.
- 2.9 Communications Programme
- The permit holder shall, within one month of the date of grant of this permit, establish and maintain a Public Awareness and Communication Programme to ensure members of the public can obtain information at reasonable times.

Reason: *To make provision for management of the loading and dumping at sea activities on a planned basis having regard to the desirability of ongoing assessment, recording and reporting of matters affecting the marine environment.*

Condition 3. Loading and dumping at sea activities

- 3.1 Loading and dumping of dredged material from Ringaskiddy East shall be completed by 31st December 2018.
- 3.2 Loading and dumping of dredged material from Ringaskiddy West shall be completed by 31st December 2020.
- 3.3 The quantities of dredged material permitted to be loaded and dumped from Ringaskiddy East and Ringaskiddy West shall be limited as set out in *Schedule A.1* of this permit.
- 3.4 Loading and dumping shall be prohibited during the Closed Periods specified in *Schedule A.3* of this permit.
- 3.5 No material shall be dumped at sea which has been categorised as unsuitable for disposal.
- 3.6 No bedrock material excavated by drilling, blasting or other mechanical means shall be dumped at sea.
- 3.7 Loading of dredged material from Ringaskiddy East shall be carried out using a backhoe dredger and/or a trailing suction hopper dredger.
- 3.8 Loading of dredged material from Ringaskiddy West shall be carried out using a trailing suction hopper dredger.
- 3.9 The use of a plough dredger shall be confined to the levelling of any high spots in the seabed that remain following completion of the loading activity referred to in Conditions 3.7 and 3.8.
- 3.10 The permit holder shall implement best practice to minimise the environmental impact of the loading and dumping activity.
- 3.11 The permit holder shall take all reasonably practicable measures to limit the release of suspended solids into the water column during loading and on voyages to and from the dumping site.
- 3.12 Overflow of dredged material from the vessel during loading shall be prohibited.

- 3.13 Dumping shall be effected by release of the dredged material through the hull of the trailing suction hopper dredger or dumping barge while the vessel is in motion.
- 3.14 Dumping shall be conducted to ensure a uniform spread of material throughout the dumping site.
- 3.15 All mitigation measures and environmental commitments set out in the Natura Impact Statement submitted as part of the application for this permit shall be implemented.
- 3.16 The permit holder shall liaise with the Harbour Master at the Port of Cork Company prior to the commencement of and during the loading and dumping activities.
- 3.17 The permit holder shall liaise with the Minister for the Department of Agriculture, Food and the Marine regarding the scheduling of:
- loading activities under this permit, and
 - licensed waste activities at East Tip, Haulbowline, County Cork under Register of Licence No. W0289-01,
- in order to minimise the potential for cumulative adverse impacts on the marine environment.
- 3.18 Information relating to the activity shall be automatically recorded during each dumping voyage and shall as a minimum contain details of the following:
- (i) The name of the vessel;
 - (ii) The source of the substance or material;
 - (iii) The date, time, location and position at which the voyage for the purposes of dumping began;
 - (iv) The date, time and position at which dumping began;
 - (v) The date, time and position at which dumping ended;
 - (vi) The quantity, stated in metric tonnes, of the substance or material dumped;
 - (vii) The date, time and position at which the vessel completed the voyage for the purpose of dumping; and
 - (viii) Logged vessel track record data.
- 3.19 Prior to the commencement of the permitted activity, the permit holder shall consult with the Marine Survey Office of the Department of Transport to ensure that all vessels used in connection with the loading and dumping activities specified in this permit meet the requirements of the Marine Survey Office. The permit holder shall ensure that the vessels used in connection with this permit are fully certified for the entire period of loading and dumping activities specified in this permit.
- 3.20 The permit holder shall permit authorised officers to be on board the vessel. They shall permit and facilitate the carrying out by the authorised officer of his functions under the Dumping at Sea Acts 1996 to 2009, and shall comply with the provisions of those Acts in relation to the authorised officer and those functions.

Reason: *To provide for appropriate controls on loading and dumping at sea activities to ensure the protection of the marine environment.*

Condition 4. Control and Monitoring

- 4.1 The permit holder shall carry out such sampling, analyses, measurements, examinations, maintenance and calibrations as set out below and in accordance with *Schedule C: Monitoring*, of this permit.
- 4.1.1 Analyses and measurements shall be undertaken by competent staff in accordance with documented operating procedures.
 - 4.1.2 Such procedures shall be assessed for their suitability for the test matrix and performance characteristics shall be determined.

- 4.1.3 Such procedures shall be subject to a programme of Analytical Quality Control using control standards with evaluation of test responses.
- 4.1.4 Analysis for compliance purposes, including any sub-contracted analysis, shall be done by a competent laboratory.
- 4.2 The permit holder shall ensure that:
 - (i) sampling and analysis for all parameters listed in the schedules to this permit; and
 - (ii) any reference measurements for the calibration of automated measurement systems; shall be carried out by an appropriate Standard Method.
- 4.3 The frequency, methods and scope of monitoring, sampling and analyses, as set out in this permit, may be amended with the agreement of the Agency following evaluation of test results.
- 4.4 Bathymetry
 - 4.4.1 The permit holder shall carry out pre-dredge and post-dredge bathymetric surveys of the Loading Areas in accordance with *Schedule B.1* of this permit.
 - 4.4.2 The permit holder shall carry out pre-dredge and post-dredge bathymetric surveys of the Dumping Site(s) in accordance with *Schedule B.2* of this permit.
- 4.5 Archaeology
 - 4.5.1 The permit holder shall comply with the archaeological monitoring requirements of the Underwater Archaeology Unit (UAU) of the Department of Arts, Heritage and the Gaeltacht:
 - 4.5.1.1 The loading activity shall be subject to archaeological monitoring by a suitably qualified and experienced archaeologist.
 - 4.5.1.2 Details of the archaeological monitoring shall be agreed with the UAU.
 - 4.5.1.3 The monitoring shall be licensed under the National Monuments Acts 1930-2004.
 - 4.5.1.4 The monitoring archaeologist(s) shall be permitted to be on board all plant and machinery during all loading works.
 - 4.5.1.5 Sufficient archaeological personnel shall be engaged to ensure all aspects of the loading activity can be fully monitored.
 - 4.5.1.6 If potential cultural material is encountered, the monitoring archaeologist shall be empowered to have loading suspended in that area until the potential archaeology has been fully resolved. In this event the UAU shall be contacted immediately.
 - 4.5.1.7 An agreed communications strategy shall be implemented to enable the monitoring archaeologist(s) to have works suspended to prevent undue impact on potential cultural material.
 - 4.5.1.8 A detailed method statement shall accompany all licence applications to the Department of Arts, Heritage and the Gaeltacht.
 - 4.5.1.9 A Find's Retrieval Strategy shall form part of the method statement to mitigate for individual and small artefactual material.
 - 4.5.1.10 The permit holder shall put in place on-site temporary storage facilities to allow for the proper storage of any material that may be recovered during the archaeological monitoring.
- 4.6 Marine Mammals
 - 4.6.1 The permit holder shall appoint a suitably qualified and experienced Marine Mammal Observer to record, monitor and protect marine mammals while the permitted activity is ongoing.

- 4.6.2 The Marine Mammal Observer shall liaise with and meet the monitoring and reporting requirements of the National Parks and Wildlife Service. Full reporting on Marine Mammal Observer operations and mitigation undertaken should be made to offshore@ahg.gov.ie within 1 month of completion. The report shall also be submitted to the Agency as part of the AER.
- 4.7 Sediment dispersal at the dumping site
- 4.7.1 Within one year of the date of grant of this permit, the permit holder shall submit to the Agency for agreement a proposal for a survey to confirm that there is no adverse impact associated with the long-term dispersal of dredged material outside the dumping site boundaries. Results of this survey shall be submitted as part of the AER.

Reason: *To provide for the protection of the marine environment by way of monitoring of the impacts associated with the loading and dumping at sea activities.*

Condition 5. Incident Prevention and Emergency Response

5.1 Incidents

In the event of an incident the permit holder shall immediately:

- (i) identify the date, time and place of the incident;
- (ii) as soon as practicable notify the Agency, in a format prescribed, and other relevant authorities;
- (iii) carry out an investigation to identify the nature, source and cause of the incident and any impact arising therefrom;
- (iv) isolate the source of any such impact;
- (v) evaluate the environmental pollution, if any, caused by the incident; and
- (vi) identify and execute measures to minimise the impact and the effects thereof.

- 5.2 The permit holder shall provide a report of the investigation into the incident to the Agency for its agreement within one month of the incident occurring or as otherwise agreed by the Agency. The report shall include a proposal to:

- (i) identify and put in place measures to avoid recurrence of the incident; and
- (ii) identify and put in place any other appropriate remedial actions.

- 5.3 The permit holder shall, in advance of the commencement of the activities, ensure that a documented Accident Prevention Procedure is in place that addresses hazards, particularly in relation to the prevention of accidents with a possible impact on the environment.

- 5.4 The permit holder shall, in advance of the commencement of the activities, ensure that a document Emergency Response Procedure is in place that addresses any emergency situation which may arise. This procedure shall include provision for minimising the effects of any emergency on the environment.

Reason: *To provide for the protection of the marine environment.*

Condition 6. Notification, Records and Reports

- 6.1 The permit holder shall notify the Agency by both telephone and either email or webform, to the Agency's headquarters in Wexford, or to such other Agency office as may be specified by

the Agency, as soon as practicable after the occurrence of any incident (as defined in this permit). The permit holder shall include as part of the notification, the date and time of the incident, summary details of the occurrence, and where available, the steps taken to minimise any impacts.

- 6.2 In the case of any incident relating to any impact on water, the permit holder shall notify the Marine Institute, Sea Fisheries Protection Authority, Inland Fisheries Ireland, Bord Iascaigh Mhara and any other relevant authorities as soon as practicable after such an incident.
- 6.3 In the case of any incident relating to archaeology, marine mammals or migratory fish, the permit holder shall notify the National Parks and Wildlife Service, Marine Institute, Sea Fisheries Protection Authority and Inland Fisheries Ireland and any other relevant authorities as soon as practicable after such an incident.
- 6.4 The permit holder shall make a record of any incident. This record shall include details of the nature, extent, and impact of, and circumstances giving rise to, the incident. The record shall include all corrective actions taken to manage the incident, and the effect on the marine environment, and avoid recurrence. The permit holder shall, as soon as practicable following incident notification, submit to the Agency the incident record.
- 6.5 The permit holder shall record all complaints related to the loading and dumping activities. Each such record shall give details of the date and time of the complaint, the name of the complainant (if provided), and give details of the nature of the complaint. A record shall be kept of the response made and any corrective action undertaken in the case of each complaint. This record shall be made available to the Agency upon request.
- 6.6 The permit holder shall as a minimum keep the following documents:
- (i) the permit(s) relating to the dumping site;
 - (ii) the previous years' AERs for the dumping site;
 - (iii) records of all sampling, analyses, measurements, examinations, calibrations and maintenance carried out in accordance with the requirements of this permit and any previous permits dating back at least three years;
 - (iv) all correspondence with the Agency;
 - (v) complaints register; and
 - (vi) up to date drawings/plans showing the location of the loading areas, the dumping site authorised by this permit.

This documentation shall be available to the Agency for inspection at all reasonable times and shall be submitted to the Agency, as required, in such a format as may be requested, including electronic submittal of the information or a summary of such information

- 6.7 The permit holder shall submit electronically to the Agency, by the 31st March of each year, an AER covering the previous calendar year. This report shall include as a minimum the information specified in *Schedule C: Annual Environmental Report* of this permit, and shall be prepared in accordance with any relevant guidelines issued by the Agency or as otherwise prescribed by the Agency.
- 6.8 A full record, which shall be open to inspection by authorised officer of the Agency at all times, shall be kept by the permit holder on matters relating to each load of the substance or material intended to be dumped, and put on board the vessel. This record shall be maintained continually and shall as a minimum contain those details specified in Condition 3.18 of this permit. This information shall be submitted as required by and as may be prescribed by the Agency as part of the Annual Environmental Report and immediately on request by an authorised officer.
- 6.9 All reports shall be certified accurate and representative by the permit holder, manager or a nominated, suitably qualified and experienced deputy.
- 6.10 The permit holder shall notify the Agency in writing upon completion of the loading and dumping activities to which this permit relates.

Reason: *To provide for the collection and reporting of adequate information on the loading and dumping at sea activity.*

Condition 7. Financial Charges and Provisions

7.1 Agency Charges

- 7.1.1 The permit holder shall pay to the Agency a contribution or such sum, as the Agency from time to time determines having regard to variations in the extent of reporting, auditing, inspections, sampling and analysis or other functions carried out by the Agency, towards the cost of monitoring the discharges as the Agency considers necessary for the performance of its functions under the Dumping at Sea Acts 1996 to 2009.
- 7.1.2 The cost of any other tests, sampling, analysis and monitoring which the Agency may require in relation to the loading and dumping of the substance or material the subject of this permit shall be borne by the permit holder. Furthermore, the cost of any tests, sampling, analysis and monitoring surveys carried out by an authorised officer or by or on behalf of the Agency in relation to the sampling of a substance or material the subject of this permit shall also be borne by the holder of the permit.

- 7.2 The Permit Holder shall indemnify the Agency and its authorised officers against all cost occurred by him as a result of a breach of any of the conditions of this permit.

7.3 Environmental Liabilities

- 7.3.1 The permit holder shall as part of the AER, provide an annual statement as to the measures taken or adopted at the loading areas and the dumping site in relation to the prevention of environmental damage, and the financial provisions in place in relation to the underwriting of costs for remedial actions following anticipated events or accidents/incidents, as may be associated with loading and dumping at sea.
- 7.3.2 The permit holder shall arrange for the completion, by an independent and appropriate qualified consultant, of a comprehensive and fully costed Environmental Liabilities Risk Assessment (ELRA) to address the liabilities from loading and dumping at sea. A report on this assessment, to the satisfaction of the Agency, shall be submitted as part of the second AER (required under Condition 6.7). The ELRA shall be reviewed as necessary to reflect any significant change to the volume or character of the material/substance to be loaded and dumped at sea, and in any case every three years following initial agreement. The results of the review shall be notified as part of the AER.
- 7.3.3 As part of the measures identified in Condition 7.3.1, the permit holder shall, to the satisfaction of the Agency, make financial provision to cover any liabilities identified in Condition 7.3.2. The amount of indemnity held shall be reviewed and revised as necessary, but at least triennially. Proof of renewal or revision of such financial indemnity shall be included in the annual 'Statement of Measures' report identified in Condition 7.3.1.
- 7.3.4 The permit holder shall have regard to the most recent Environmental Protection Agency Guidance on Environmental Liability Risk Assessment, Decommissioning Management Plans and Financial Provision when implementing Conditions 7.3.2 and 7.3.3 above.

Reason: *To provide for adequate financing for monitoring and financial provisions for measures to protect the marine environment.*

SCHEDULE A: Limitations

A.1 Quantity of Dredged Material to be Dumped at Sea

	Ringaskiddy East 2016–2018	Ringaskiddy West 2018–2020	Total
Quantity (tonnes, wet weight)	135,000	322,500	457,500



A.2 Location of Loading Areas

	Ringaskiddy East	Ringaskiddy West
Location of Loading Area	Those parts of the sea outlined in black on Drawing No. IBM0563-DS-002 of Attachment D.2 to the permit application	Those parts of the sea outlined in black on Drawing No. IBM0563-DS-002 of Attachment D.2 to the permit application



A.3 Location of Dumping Site

	Latitude	Longitude
(i)	51°43.00' N	8°10.18' W
(ii)	51°43.00' N	8°09.00' W
(iii)	51°44.50' N	8°09.00' W
(iv)	51°44.50' N	8°10.18' W



A.4 Closed periods

Applicable Timeframe	Prohibited Activity	Reason for closed period
1 st May to 31 st August annually	All loading activity.	Salmon draft net season.
November and February annually	All dumping activity.	Herring spawning times.



SCHEDULE B: Monitoring**B.1 Monitoring at Loading Areas** *Note 1*

Parameters	Monitoring Frequency/Time	Monitoring Locations	Analysis Method/Technique
Bathymetry & concurrent tide observations	<ul style="list-style-type: none"> • Within one week prior to the commencement of the loading activity. • Within one week following completion of the loading activity. 	Ringaskiddy West Ringaskiddy East	Bathymetric survey: lines to run perpendicular to direction of residual flow; vertical resolution ≥ 20 cm; horizontal control by DGPS; line interval at 25 m. Tidal height measurements to be taken every 15 minutes at levelled benchmark
Marine mammals	<ul style="list-style-type: none"> • Duration of the loading activities 	Ringaskiddy West Ringaskiddy East	Monitoring to be undertaken by an independent Marine Mammal Observer with relevant experience, in accordance with Condition 4.6.
Archaeology	<ul style="list-style-type: none"> • Duration of the loading activities 	Ringaskiddy West Ringaskiddy East	Monitoring to be undertaken by a suitably qualified and experienced archaeologist, in accordance with Condition 4.5.

Note 1: The frequency, methods and scope of monitoring, sampling and analyses may be amended in accordance with Condition 4.3.

B.2 Monitoring at Dumping Site *Note 1*

Parameters	Monitoring Frequency/Time	Monitoring Locations	Analysis Method/Technique
Sediment dispersal	<ul style="list-style-type: none"> • To be agreed 	To be agreed	To be agreed by the Agency, in accordance with Condition 4.7.
Marine mammals	<ul style="list-style-type: none"> • Duration of the dumping activities 	Dumping site, and voyages to and from dumping site.	Monitoring to be undertaken by an independent Marine Mammal Observer with relevant experience, in accordance with Condition 4.6.

Note 1: The frequency, methods and scope of monitoring, sampling and analyses may be amended in accordance with Condition 4.3.

SCHEDULE C: Annual Environmental Report

Annual Environmental Report Content ^{Note 1}
Register/log of loading and dumping activities. OSPAR dumping report. Marine positional log. Reported incidents summary. Complaints summary. Monitoring Summary. Accident Prevention Procedure. Emergency Response Procedure. Statement of measures in relation to prevention of environmental damage and remedial actions (Environmental Liabilities). Environmental Liabilities Risk Assessment Review (every three years or more frequently as dictated by relevant on-site change including financial provisions). Any other items specified by the Agency.

Note 1: Content may be revised subject to the agreement of the Agency.

Sealed by the seal of the Agency on this the 22nd day of July 2015.

PRESENT when the seal of the Agency
Was affixed hereto:

Mary Turner, Authorised Person

