

This permit was amended on “20th September 2016” under Section S5(4) of the Dumping at Sea Acts, 1996 to 2010. The details of Amendment A must be read in conjunction with this permit. The amendment document is entitled “Clerical Amendment A”



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

DUMPING AT SEA PERMIT

| | |
|--------------------------------|---|
| Permit Register Number: | S0022-01 |
| Permit Holder: | Department of Agriculture, Food and the Marine, Western Engineering Division, 2nd Floor Custom House, Druid Land, Galway |
| Location of Loading: | Rossaveel Fishery Harbour Centre |
| Location of Dumping: | Galway Bay, 2.6 km south of Cashla Point |

HEADQUARTERS
JOHNSTOWN CASTLE ESTATE
COUNTY WEXFORD, IRELAND
PHONE: +353-53-9160600
FAX: +353-53-9160699

DUMPING AT SEA ACT 1996 AS AMENDED

DUMPING AT SEA PERMIT

Decision of the Agency, under Section 5(1) of the
Dumping at Sea Act 1996 as amended

Reference number: **S0022-01**

The Agency in exercise of the powers conferred on it by the Dumping at Sea Act 1996 as amended, for the reasons hereinafter set out, hereby grants this dumping at sea permit to Department of Agriculture, Food and the Marine subject to conditions, as set out in the schedule attached hereto.

The permit authorises the loading and dumping at sea of dredged material from Rossaveel Fishery Harbour and Galway Bay subject to conditions.

A copy of the Decision is attached.

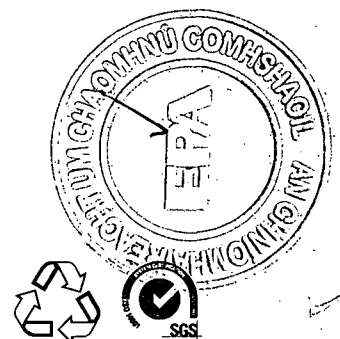
Loading and dumping at sea of a substance or material, in accordance with the Dumping at Sea Act 1996 as amended

GIVEN under the Seal of the Agency this 3rd day of December 2015.

**PRESENT when the seal of the Agency
was affixed hereto:**



**Ms Mary Furner
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 at Rossaveel Fishery Harbour Centre by the Department of Agriculture, Food and the Marine (DAFM), Western Engineering Division, 2nd Floor Custom House, Druid Lane, Galway. The proposed works are part of a wider project involving the construction of a 92 berth floating small craft harbour and deepening of the navigational channel and marina area. Under this permit, the maximum quantity of dredged material permitted to be loaded and dumped at sea is 94,090 tonnes, with the maximum daily rate of disposal limited to 1,950 tonnes per day.

Loading shall be carried out using a long reach backhoe excavator operating from a floating pontoon barge at Rossaveel Harbour. The loaded material shall be dumped at sea at a previously authorised dumping site located in Galway Bay 2.6 km south of Cashla Point. 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 the Department of Agriculture, Food and the Marine 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 Act 1996 as amended, unless otherwise defined in the section.

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| 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. |
| Day | Any 24 hour period. |
| Daytime | 0700 hrs to 1900 hrs. |
| 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. |
| Evening Time | 1900 hrs to 2300 hrs. |
| Exclusion zone | Area where loading and/or dumping at sea is prohibited to protect the marine environment or designated species or sites. |
| 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. |

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| FSAI | Food Safety Authority of Ireland. |
| Fortnightly | A minimum of 24 times per year, at approximately two week intervals. |
| Harbour Authority | As defined in Section 1 of the Dumping at Sea Act 1996 as amended. |
| HCB | Hexachlorobenzene. |
| HCH | Hexachlorocyclohexane. |
| Heavy metals | This term is to be interpreted as set out in "Parameters of Water Quality, Interpretation and Standards" published by the Agency in 2001. ISBN 1-84095-015-3. |
| IFI | Inland Fisheries Ireland. |
| Incident | The following shall constitute as incident for the purposes of this permit: (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. |
| Monthly | A minimum of 12 times per year, at intervals of approximately one month. |
| Monitored Zone | Area which must be monitored for marine mammals by a Marine Mammal Observer. |
| Neap Tide | The tide with the smallest tidal range (i.e. the lowest high water and the highest low water), occurring twice monthly at the middle of the moon's first and last quarters. |
| Night-time | 2300 hrs to 0700 hrs. |
| 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. |
| PAH | Polycyclic aromatic hydrocarbons. |
| PCB | Polychlorinated biphenyls. |

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| Permit Holder | Department of Agriculture, Food & Marine, Western Engineering Division, 2nd Floor Custom House, Druid Land, Galway. |
| 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. |
| SFPA | Sea Fisheries Protection Authority. |
| Slack Water | The state of a tidal current when its speed is near zero, especially the moment when a reversing current changes direction and its speed is zero. The term also is applied to the entire period of low speed near the time of turning of the current when it is too weak to be of any practical importance in navigation. The relation of the time of slack water to the tidal phases varies in different localities. |
| SOP | Standard operating procedure. |
| Spring Tide | The tide with the greatest tidal range (i.e. the highest high water and the lowest low water), occurring twice monthly at the full and new moon periods. |
| 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. |
| TBT | Tributyltin. |
| The Agency | Environmental Protection Agency. |
| The Maritime Area | Comprises (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. |

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 Act 1996 as amended. The Agency also considers that the activities will not adversely affect the integrity of any European site, and has decided to impose conditions for the purposes of ensuring they do not do so. It has determined that the activities, if managed, operated and controlled in accordance with this permit, will not have any adverse effect on the integrity of any of those sites.

The Agency has accordingly decided to grant a permit to the Department of Agriculture Food and the Marine, Western Engineering Division, 2nd Floor Custom House, Druid Lane, Galway to carry on activities listed in Part I Schedule of Activities Permitted, subject to the conditions set out in Part II Conditions.

In reaching this decision the Agency has considered the documentation relating to:

- the application (Register Number: S0022-01) and the supporting documentation received from the applicant;
- comments and observations received;
- the Inspector's Report dated 27th November 2015;

and has carried out an Appropriate Assessment of the likely significant effects of the permitted activities on European sites.

A screening for Appropriate Assessment was undertaken to assess, in view of best scientific knowledge and the conservation objectives of the site, if the proposed activities, individually or in combination with other plans or projects are likely to have a significant effect on any European Site. In this context, particular attention was paid to the European sites at Connemara Bog Complex SAC (002034), Connemara Bog Complex SPA (004181), Kilkieran Bay and Islands SAC (002111), Slyne Head to Ardmore Point Islands SPA (004159), Inishmore Island SAC (000213), Inishmore SPA (004152) and Inishmaan Island SAC (000212).

The Agency considered, for the reasons set out below, that the proposed activities are not directly connected with or necessary to the management of any European site and that it cannot be excluded, on the basis of objective information, that the proposed activities, individually or in combination with other plans or projects, will have a significant effect on any European site and accordingly determined that an Appropriate Assessment of the proposed activities was required, and for this reason determined to require the applicant to submit a Natura Impact Statement.

This determination was based on the lack of information relating to sediment dispersion and deposition rates associated with the proposed loading and dumping activities and their potential to give rise to significant effects on the qualifying interests of the European Sites.

The Agency has completed the Appropriate Assessment of potential impacts on these sites and has made certain, 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 activities, individually or in combination with other plans or projects, will not adversely affect the integrity of any European Site, in particular Connemara Bog Complex SAC (002034), Connemara Bog Complex SPA (004181), Kilkieran Bay and Islands SAC (002111), Slyne Head to Ardmore Point Islands SPA (004159), Inishmore Island SAC (000213), Inishmore SPA (004152) and Inishmaan Island SAC (000212), 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:

- Sediment analysis has demonstrated that the material in question consists of essentially clean sediment of natural origin;
- Condition 1.6 & Schedule A limits the quantity of material to be loaded and dumped at sea to 94,090 tonnes, with the maximum daily rate of disposal limited to 1,950 tonnes per day;
- The duration of the activity is short (maximum two months);
- Sediment dispersion modelling has predicted that the closest sediment deposition will occur ~ 1.2 km from the nearest European site at a maximum sediment depth of 2mm;
- Conditions 3.5 and 3.7 require the permit holder to manage the loading activities to ensure the release of suspended solids into the water column is minimised;
- Condition 4.6 requires that the permit holder appoint a dedicated Marine Mammal Observer to monitor, record and protect marine mammals in accordance with NPWS guidelines.

The Agency is satisfied that no reasonable scientific doubt remains as to the absence of adverse effects on the integrity of those European sites Connemara Bog Complex SAC (002034), Connemara Bog Complex SPA (004181), Kilkieran Bay and Islands SAC (002111), Slyne Head to Ardmore Point Islands SPA (004159), Inishmore Island SAC (000213), Inishmore SPA (004152) and Inishmaan Island SAC (000212).

Part I Schedule of Activities Permitted

In pursuance of the powers conferred on it by the Dumping at Sea Act 1996 as amended, the Environmental Protection Agency (the Agency), under Section 5 of the said Acts, grants this Dumping at Sea Permit to the Department of Agriculture, Food and the Marine, Western Engineering Division, 2nd Floor Custom House, Druid Lane, Galway. 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 Act 1996 amended, 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 location of the loading area authorised by this permit is in that part of the sea outlined in blue on *Drawing No. C807/DAS/1, Revision A* of the application and bounded by the coordinates specified in *Attachment D.2: Loading Areas* of the application. Any reference in this permit to "loading area" shall mean the area thus outlined. The permitted loading activity shall be carried on only within the area 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 outlined in red on *Drawing No. C807/DAS/2 Revision A* of the application or that part of the sea bounded by the coordinates specified in *Schedule A: Limitations* of this permit. 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 The Monitored Zone for marine mammals authorised by this permit is the area within a 500 m radial distance of the loading activity.
- 1.6 Loading and dumping at sea shall be limited as set out in *Schedule A: Limitations* of this permit.
- 1.7 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.
- 1.8 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 Noise
- 2.2.1 The permit holder shall adopt all reasonably practicable measures to minimise the noise impact of the permitted activities at NSLs.
- 2.2.2 Noise from the permitted activities shall not cause a nuisance at any NSLs.
- 2.3 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.
- 2.4 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.
- 2.5 The permit holder shall notify the Agency at least two weeks prior to the commencement of the loading and dumping activities.
- 2.6 Documentation
- The permit holder shall issue a copy of this permit to all relevant personnel whose duties relate to any condition of this permit.
- 2.7 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.
- 2.8 Communications Programme
- The permit holder shall ensure members of the public can obtain environmental 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 Dumping shall commence within 1 year of the date of grant of this permit.
- 3.2 No material shall be dumped at sea which has been categorised as unsuitable for disposal.
- 3.3 Bedrock material excavated by drilling, blasting or other mechanical means shall not be dumped at sea.
- 3.4 Dumping shall be effected by release of the material through the hull of the vessel while the vessel is in motion.
- 3.5 Loading shall be carried out by backhoe excavator, unless otherwise agreed by the Agency in accordance with Condition 1.8.
- 3.6 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.
- 3.7 Overflow of dredged material from the vessel during loading and on voyages to and from the dumping site shall be prohibited.
- 3.8 Dumping activities shall be conducted to ensure a uniform spread of material throughout the dumping site.
- 3.9 The permit holder shall liaise with the Harbour Master at Rossaveel Fishery Harbour Centre and the Harbour Master at Galway Harbour Company prior to the commencement of and during the loading and dumping activities.
- 3.10 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.
- 3.11 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.
- 3.12 The permit holder shall permit authorised officers and any other persons as deemed appropriate by the Agency to be on board the vessel. They shall permit and facilitate the carrying out by the authorised officer of his/her functions under the Dumping at Sea Act 1996 as amended, 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 B: 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 Area in accordance with *Schedule B.1* of this permit.
- 4.5 Archaeology
- 4.5.1 The permit holder shall immediately notify the Underwater Archaeology Unit of the Department of Arts, Heritage and the Gaeltacht if any material of archaeological potential is encountered during the course of the permitted activities and the permitted activities shall cease in that area until the potential archaeology has been fully evaluated.
- 4.6 Marine Mammals
- 4.6.1 All mitigation measure set out in the Marine Mammal Risk Assessment submitted as part of the application for this permit shall be implemented.
- 4.6.2 The permit holder shall appoint a suitably qualified and experienced Marine Mammal Observer (MMO) to record, monitor and protect marine mammals while the permitted loading and dumping activity is ongoing.
- 4.6.3 The Marine Mammal Observer shall meet the monitoring and reporting requirements of the National Parks and Wildlife Service. Full reporting on MMO operations and mitigation undertaken should be made to offshore@ahg.gov.ie within 1 month of completion of the loading and dumping activity. The report shall also be submitted to the Agency as part of the FER.

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 identify and put in place measures to avoid recurrence of the incident.

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.

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| Reason: <i>To provide for the protection of the marine environment.</i> |
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Condition 6. Notification, Records and Reports

- 6.1 The permit holder shall notify the Agency by both telephone and either email (das@epa.ie) 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 Final Environmental Report 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 area and 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 a Final Environmental Report within 3 months of completion of the loading and dumping activities. This report shall include as a minimum the information specified in *Schedule C: Final 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 officers 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 3.10 of this permit. This information shall be submitted as required by and as may be prescribed by the Agency as part of the Final 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 Act 1996 as amended.

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 incurred by him as a result of a breach of any of the conditions of this permit.

7.3 The permit holder shall, as part of the Final Environmental Report, provide a statement as to the measures taken or adopted at the loading area 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.

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| <p>Reason: <i>To provide for adequate financing for monitoring and financial provisions for measures to protect the marine environment.</i></p> |
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SCHEDULE A: Limitations**A.1 Quantity of Dredged Material to be Dumped at Sea**

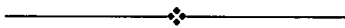
| | Total maximum quantity (tonnes) | Maximum daily quantity (tonnes) |
|------------------|------------------------------------|------------------------------------|
| Dredged material | 94,090 | 1,950 |

**A.2 Location of Loading Area**

| | Latitude | Longitude |
|--------|----------------|--------------|
| (i) | 53°16.12708' N | 9°33.6712' W |
| (ii) | 53°16.20168' N | 9°33.4896' W |
| (iii) | 53°16.17805' N | 9°33.3503' W |
| (iv) | 53°16.14958' N | 9°33.3310' W |
| (v) | 53°16.11835' N | 9°33.3457' W |
| (vi) | 53°16.13577' N | 9°33.4153' W |
| (vii) | 53°16.15283' N | 9°33.5168' W |
| (viii) | 53°16.11337' N | 9°33.6251' W |

**A.3 Location of Dumping Site**

| | Latitude | Longitude |
|-------|------------|-----------|
| (i) | 53°12.7' N | 9°34.0' W |
| (ii) | 53°12.7' N | 9°33.5' W |
| (iii) | 53°12.4' N | 9°33.5' W |
| (iv) | 53°12.4' N | 9°34.0' W |



SCHEDULE B: Monitoring

B.1 Monitoring at Loading Area *Note 1*

| Parameters | Monitoring Frequency/Time | Monitoring Locations | Analysis Method/Technique |
|---|---|----------------------|--|
| Bathymetry & concurrent tide observations | Within one week prior to the commencement of loading. Within one week following completion of loading. | Loading Area. | 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 | Duration of the loading activities. | Loading Area. | Monitoring to be undertaken by an independent Marine Mammal Observer with relevant experience. |

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 |
|----------------|-------------------------------------|----------------------|--|
| Marine mammals | Duration of the dumping activities. | Dumping Site | Monitoring to be undertaken by an independent Marine Mammal Observer with relevant experience. |

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

SCHEDULE C: Final Environmental Report

| Final Environmental Report Content |
|---|
| Register/log of loading and dumping activities. OSPAR dumping report. Marine positional log. Reported incidents summary. Complaints summary. Monitoring Summary. Marine Mammal Monitoring Report. Accident Prevention Procedure. Emergency Response Procedure. Statement of measures in relation to prevention of environmental damage and remedial actions (Environmental Liabilities). 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 3rd day of December 2015.

PRESENT when the seal of the Agency Was affixed hereto:

Ms Mary Turner
Authorised Person

