



1. Introduction

Cardiff Bay Barrage Act requires CHA to maintain a navigable channel into Cardiff Bay. The Barrage Act grants CHA powers to carry out this operation, but Marine Licence is required for disposal of the material at Cardiff Grounds.

- 1.1. Applicant Name:** Cardiff Harbour Authority
- 1.2. Marine Licence reference number:** DML2352
- 1.3. Description of Operation:** Cardiff Bay maintenance dredging and disposal
- 1.4. Dredge and disposal Site Location(s):**

Dredge site bounded by these points:

Area 1	51°26.71	3°09.86
	51°26.71	3°09.84
	51°26.69	3°09.83
	51°26.65	3°09.80
	51°26.63	3°09.78
	51°26.59	3°09.66
	51°26.55	3°09.64
	51°26.61	3°09.81
	51°26.64	3°09.84
	51°26.67	3°09.87
51°26.70	3°09.86	
Area 2	51°26.74	3°09.95
	51°26.78	3°09.91
	51°26.71	3°09.84
	51°26.71	3°09.86
	51°26.71	3°09.87
Area 3	51°26.70	3°09.99
	51°26.74	3°09.95
	51°26.71	3°09.87
	51°26.67	3°09.92

Lock 1	51°26.80	3°09.98
	51°26.80	3°09.98
	51°26.77	3°09.92
	51°26.78	3°09.91
Lock 2	51°26.79	3°09.99
	51°26.79	3°10.00
	51°26.76	3°09.93
	51°26.76	3°09.93
Lock 3	51°26.78	3°10.00
	51°26.77	3°10.01
	51°26.75	3°09.94
	51°26.75	3°09.94

Disposal site bounded by these points:

51°25.60	3°06.40
51°25.60	3°06.70
51°26.50	3°07.10
51°27.40	3°05.90

- 1.5. Activity period:** To be determined by licence
- 1.6. Biosecurity Manager/Officer:** David Hall (on behalf of CHA) and Tim Milner (on behalf of Boskalis Westminster Ltd)
- 1.7. Approval Date:**
- 1.8. Document version number: 3 Updated January 2026**

2. Information related to the Environmental conditions affecting biosecurity

	Source environment/location	Receiving environment/location Cardiff Grounds Deposit LU110
Marine Non-native species known to be present	<p>Known to be present at the dredge area.</p> <p><i>Crepidula fornicata</i> has been previously found at Cardiff in the eulittoral zone to the east of the dredge areas.</p>	<p>Known to be present at the disposal area.</p> <p>None</p>

	<p>Known to be present in near coastal locations:</p> <p><i>Spartina Townsendii</i> has been found on the shoreline within Cardiff Bay area and also to the East and West of Cardiff at Newton and Barry.</p> <p>Although <i>Dreissena polymorpha</i> and <i>Dikerogammarus villosus</i> are present within Cardiff Bay, they are unable to survive in saline waters so are killed upon reaching the dredging areas.</p> <p>Known to be present at current vessel location:</p> <p><i>Eriochier sinensis</i> (Chinese mitten crab)</p>	<p>Known to be present in near coastal locations:</p> <p>In addition to Cardiff dredge area information; <i>Spartina Townsendii</i> has also been found extensively to the South East along the Somerset coast from Clevedon to Sand Bay.</p> <p>Additionally, <i>Amphibalanus</i> has been discovered at locations to the South East at areas including Weston-super-Mare, Sand Bay and Clevedon.</p>
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3. Vessels & equipment involved in the operation¹ (please list all vessels, barges and equipment to be used as part of the maintenance dredging operation – insert additional rows as necessary)

Vessel name	Photo reference	Vessel type	Details, Risk factors & Justification	Risk: (High/Medium/Low)
Sospan Dau	1	Trailing Suction Hopper	Risks associated with transferring IAS from elsewhere to the operational area, and also when leaving site. Boskalis Westminster Ltd comply with IMO guidance and this plan to minimise these possibilities.	Low

¹ The licence holder should update and submit a revised plan as a result of any amendments to the list of vessels and/or equipment to be utilised as part of current licence.

Deo Gloria	2	Trailing Suction Hopper	As above	Low

3.1. Vessel & Disposal site Proposed activity log

In relation to maintenance dredging activities, marine invasive non-native species typically have three main vectors by which spread can potentially occur from one location to another. These are hull fouling, transfer in vessel ballast water and transfer within marine sediments. To better understand the potential risks associated to the current operation it is important to outline a brief history of vessel/equipment movements. This includes information such as vessel/equipment recent activity history (including any periods of inactivity) as well as information on ports visited and dredge/disposal site locations associated to the current licensable activity.

Vessel name	Brief description of vessel activity over the last 12 months	Transit ports <i>(list all ports to be visited on route to the current dredge activity if applicable)</i>	Transit ports arrival and departures		Disposal site name & reference
			Arrival date	Departure date	
Sospan Dau	This vessel has worked continuously around the UK for the last 12 months. It only leaves UK waters to return to the Netherlands for maintenance.	It is not possible to state where the vessels will be coming from, as this is dependent on when the licence is granted. Furthermore, this location will change between dredging campaigns. Biosecurity protocols included in this plan will be sufficient to prevent transfer of IAS wherever the location.			
Gloria Deo	As above				

4. Activities which have a significant risk of introducing or spreading marine invasive non-native species *(Please provide as much detail as possible of how each of the activities have the potential to increase the risk of introduction or onward spread of marine invasive non-native species – insert additional rows as necessary)*

Activity and brief description	Details of how this could potentially increase the risk of introducing and/or spreading MINNS	Mitigation and Biosecurity measures to be implemented
<p>Movement of a vessel from one port to another in relation to maintenance dredging activities.</p>	<p>MINNS could be spread via:</p> <p>Attachment to hull or other parts of the vessel when visiting a location where MINNS are present.</p> <p>Within ballast water, used when vessel is moving between operational areas.</p> <p>When dredged material containing MINNS is deposited in a location where the species is not present.</p>	<p>Regular antifouling of vessel demonstrated through up-to-date log book. Vessels are maintained within IMO guidelines.</p> <p>All vessels named on the licence must ensure that the hopper area and any associated equipment (suction dredge, screens etc.) are flushed clean and free from residual sediments and debris at the beginning and end of each campaign and/or when entering or leaving Welsh waters, – if practical photos to be submitted as evidence to NRW.</p> <p>Hopper water used as ballast should be exchanged <u>at least once</u> before reaching the dredge site at the beginning of the campaign and during transit to the next dredge location. This should be undertaken preferably at least 50 nautical miles* from the nearest land – evidence of hopper water exchange should be evidence in the ships log.</p> <p>*As the vessels in this plan move around the UK coast, it is highly unlikely that they will ever be able to comply with this guidance, but ballast</p>

		exchange will still occur and be recorded.
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5. Mitigation & Biosecurity Control Measures – Instructions for staff/contractors/site users

Who	What	Where	When
Boskalis Westminster Operations Manager	Ensure requirements of this plan incorporated into vessel operating procedures		Prior to vessel leaving previous location.
Master	Ensure vessel log books are up to date, and mitigation measures listed in this plan are recorded.	Vessel logbook	Throughout operations
CHA Environment Officer	Request site of log book entry prior to operations commencing to ensure that vessel is prepared for entering dredging areas.		Prior to dredging campaign
CHA Environment Officer	Request site of log book once operations complete to ensure vessel is in a suitable condition to leave the operations area.		Immediately following completion of dredging

6. Operational surveillance and reporting procedure

All ship crew to be provided with identification guide to MINNS to allow for monitoring of invasive species. All findings to be reported immediately to CHA Environment Officer, who will then liaise with NRW and Defra as necessary.
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7. Contingency Plan

Action	Responsibility	Location of Equipment
Will be addressed as required. Nothing identified at time of plan production.		

8. Location of biosecurity logbook

Vessel bridge

9. Annual Review Date

January 2027

Useful reference documents

Survey of Invasive Non-Native Species (INNS) at Welsh designated dredge disposal sites: Milford Haven and the Severn Estuary 2018. Natural Resources Wales and Marine Ecological Solutions Ltd.

IMO Guidelines for the control and management of ships biofouling to minimize the transfer of invasive aquatic species

http://www.imo.org/blast/blastDataHelper.asp?data_id=30766

Shetland Biosecurity Plan

<http://www.nafc.uhi.ac.uk/departments/marine-science-and-technology/BiosecurityPlan.pdf>

Marine Biosecurity Planning Guidance (England & Wales November 2015 – adapted from SNH, Payne, Cook Macleod February 2014)

<https://secure.fera.defra.gov.uk/nonnativespecies/downloadDocument.cfm?id=1401>

GB non-natives species secretariat

[Marine biosecurity - key guidance documents and websites](#)

Non - native species records can be accessed via the local record centres

<http://www.lrcwales.org.uk/?AspxAutoDetectCookieSupport=1>

or the National Biodiversity Network

<http://www.nbn.org.uk/>

or the marine biological Association

<http://www.mba.ac.uk/>

NRW marine experts can also give advice on Non-native species records.

Appendix

Photograph of Sospan Dau (1)



Photograph of Deo Gloria (2)

