



PIANC

The World Association for Waterborne
Transport Infrastructure

BENEFICIAL USE FOR SUSTAINABLE WATERBORNE TRANSPORT INFRASTRUCTURE PROJECTS



EnviCom Working Group Report N° 214 – 2023

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ENVIRONMENTAL COMMISSION

BENEFICIAL USE FOR SUSTAINABLE WATERBORNE TRANSPORT INFRASTRUCTURE PROJECTS

April 2023

PIANC has Technical Commissions concerned with inland waterways and ports (InCom), coastal and ocean waterways (including ports and harbours) (MarCom), environmental aspects (EnviCom) and sport and pleasure navigation (RecCom).

This report has been produced by an international Working Group convened by the Environmental Commission (EnviCom). Members of the Working Group represent several countries and are acknowledged experts in their profession.

The objective of this report is to provide information and recommendations on good practice. Conformity is not obligatory and engineering judgement should be used in its application, especially in special circumstances. This report should be seen as an expert guidance and state-of-the-art on this particular subject. PIANC disclaims all responsibility in the event that this report should be presented as an official standard.

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ACRONYMS AND ABBREVIATIONS

Baltic Marine Environment Protection Commission, Helsinki Commission	HELCOM
Before the Common Era	BCE
Beneficial Use	BU
Beneficial Use of Dredge Sediment	BUDS
Building with Nature	BwN
Central Dredging Association	CEDA
Circular Economy Action Plan	CEAP
Confined Aquatic Disposal	CAD
Confined Disposal Facility	CDF
early contractor involvement	ECI
Engineering with Nature®	EWN®
Foundation for Applied Water Research for the Dutch Regional Water Authorities	STOWA
Great Lakes Dredging Team	GLDT
Greenhouse Gas	GHG
International Union for Conservation of Nature	IUCN
London Convention and Protocol	LC/LP
Long Term Maintenance Dredge Management Plans	LMDMPs
Mechanical Treatment of Harbour Sediments	METHA
National Assessment Guidelines for Dredging	NAGD
Natural and Nature Based Features	NNBF
Nature-based Solutions	NBS
New Jersey Department of Environmental Protection	NJDEP
New Jersey Department of Transportation	NJDOT
Non-Governmental Organization	NGO
Not In My Backyard	NIMBY
Oslo Paris Agreement	OSPAR
polyfluoroalkyl substances	PFAS
Seven Mile Island Innovation Laboratory	SMIL
Sustainable Development Goals	SDGs
United Nations	UN
United Nations Educational, Scientific and Cultural Organization	UNESCO
United States Army Corps of Engineers	USACE
United States Environmental Protection Agency	USEPA
Verbetering Landbouwgronden door Ophoging met slib uit de Eems-Dollard	VLOED
Water Framework Directive	WFD
Western Dredging Association	WEDA
Working with Nature	WwN
World Association for Waterborne Transport Infrastructure	PIANC