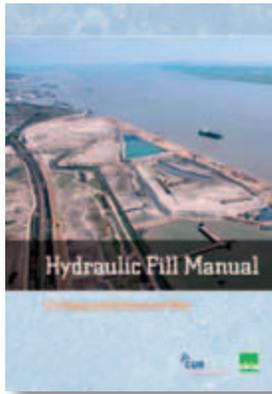


# BOOKS / PERIODICALS REVIEWED



## Hydraulic Fill Manual: For Dredging and Reclamation Works

EDITED BY JAN VAN 'T HOFF  
AND ART NOOY VAN DER KOLFF

December 2012. 660 pages.  
Illustrated. Hardback. US\$159.95.  
ISBN 9780415698443.  
CRC Press/Taylor & Francis.

Planning, designing and constructing a land reclamation using hydraulic fill is a subject that has long been

overlooked in the literature of dredging. After several years of development with contributions from a multitude of engineers, the *Hydraulic Fill Manual* has arrived – guided into existence under the stewardship of CIRIA (Construction Industry Research and Information Association) and CUR Building & Infrastructure and two editors-experts in the field, Jan van 't Hoff and Art Nooy van der Kolff.

The book is incredibly comprehensive and there is certainly something here for anyone who comes in contact on whatever level with the demands of a land reclamation project – clients, consultants, technical and financial advisors. The enormity of the book reflects the enormity of many land reclamation projects: Think of Hong Kong airport, Changi in Singapore, Maasvlakte 2 in Rotterdam, Dubai and Abu Dhabi.

A quick rundown of the contents will give some idea of the areas the book examines, mostly in-depth. A general discussion of the basic elements of a land reclamation project, with a bow to Systems Engineering, is followed by a chapter on data collection – what data are required and how are they applied. Next a chapter is devoted to describing dredging equipment, including environmental and operational limitations, in an effort to guide the client toward a realistic cost-effective choice. The selection of the borrow area and the operational planning and selection of construction methods including the fill mass properties and placement issues are described. The technical aspects of ground improvement, why, when and how it is done, are explained, followed by the philosophy behind designing a reclamation area – such items as strength, stiffness and permeability of the fill mass as well as liquefaction and earthquakes. Special fill materials and problematic subsoils are addressed including carbonate sand fill materials and hydraulic rock fill. Other issues such as drainage, wind erosion, slope, bank and bed protection are described followed by monitoring and quality control issues. Finally an overview of technical specifications with a checklist of project requirements rounds out the subject. And just for good measure four appendices have been added – equipment, field and laboratory tests, correlations and correction methods and geotechnical principles – and an extensive list of references.

The book combines the theoretical and the practical and is a must-have for clients, consultants, engineers and other advisors aiming to create well-designed and less costly hydraulic fill projects. A long-awaited and thoroughly researched manual that is destined to become a standard go-to reference work.

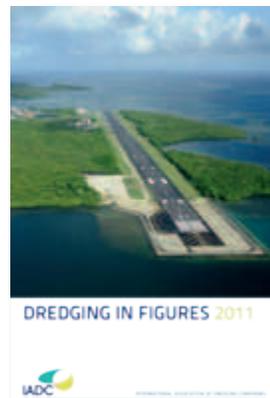


## Lunar Landscapes – Maasvlakte 2

BY MARIE-JOSÉ JONGERIUS  
In Dutch and English. NAI010  
Publishers. ISBN 9789462080263.  
€ 49.90

The Port of Rotterdam is the largest in Europe, and after Shanghai and Singapore, the largest in the world. With 2,000 hectares of new land being reclaimed from the sea, the construction of Maasvlakte 2 is one

of the largest infrastructure projects in recent years. This full-colour, photographic book has been published to accompany the Jongerius' exhibition at the Nederlands Fotomuseum in Rotterdam. Through the photographer's eyes, this "sandscape" is above all an alien landscape and a world of amazement and expectation as she records the development of Maasvlakte 2. Using her large-format camera at night, with limited light, Jongerius has produced large-format photographic images with a mysterious beauty that imagines the genius behind this enormous sand expansion. The Exhibition "Lunar Landscapes - Maasvlakte 2" runs from November 3, 2012 through January 13, 2013 at the Nederlands Fotomuseum (Netherlands Photomuseum), Wilhelminalakade 332, NL-3072 AR Rotterdam. [www.nederlandsfotomuseum.nl](http://www.nederlandsfotomuseum.nl). The book is on sale in the shop of the Nederlands Fotomuseum and at [www.naibooksellers.nl](http://www.naibooksellers.nl).



## Dredging in Figures 2011

8 pp. November 2012. International  
Association of Dredging Companies.  
The Hague, the Netherlands.

According to *Dredging in Figures*, the drivers of dredging have developed favourably, though moderately, over the last decade, but "in the dredging industry itself, the total turnover has more than doubled. Why has the dredging industry grown faster than its drivers?"

*Dredging in Figures* is an annual statistical review of the global dredging market published by the IADC as a service to parties interested in the financial development of the dredging industry. Through charts and data collected from high-level international sources as well as its own member companies, the IADC tries to answer questions about and give insight into the importance of the industry to the world economy. The present document, issued in November 2012, focusses on the situation in 2011. The information includes data about the "drivers of dredging" – waterborne trade, urbanisation and demography, energy, tourism, climate change and coastal defence and the environment – as well as the turnover of the open and closed global dredging markets and the types of projects where dredging plays a major role. Free PDF download available at [www.iadc-dredging.com](http://www.iadc-dredging.com).