Dredge Mitigation
Bahrain

Building with Nature
Innovative dredging options to minimise impacts and enhance Bahrain's fish stocks
2013

Client

Boskalis

Project
The Bahrain Ministry of Housing issued a request for proposals for a dredging and reclamation project to create more land for an essential housing development in Bahrain.

In a world first, Boskalis set the goal in their submission to demonstrate leading best practice in the dredging and reclamation industry by not only providing the most cost effective operation, but one that is sustainable and creates a lasting fishery asset for Bahrain. The challenge was to find cost effective and innovative ways of achieving this.

Services Provided

- SOI is a thought leader in the design and construction of reefs to offset dredging impacts and has a range of innovative methods to help dredging projects 'build with nature' and demonstrate world best practice. SOI was able to provide Boskalis with the innovative solution of using the dredge head to actually create productive fish habitat - which is a concept SOI has been working on since 2009. SOI provided Boskalis with recommendations of how this could be done and the most suitable locations taking into consideration SOI's detailed knowledge of how to design productive reefs, Bahrain's artificial reef goals and permitting process, and habitat requirements of Arabian Gulf fishes.
- Graphical depictions of how 'building with nature' can work for inclusion in the submission.
- Methodology and benefits that will help Boskalis standout and achieve the goal of providing an innovative but workable solution that will increase benefits.

Benefits to the Client

- Ability to increase competitive advantage by offering an innovative alternative that no other dredging company will be offering.

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