

# PROJECT SHEET

**SHARJAH CORNICHE BEACH**  
DEVELOPMENT PROJECT

## BOSKALIS

Royal Boskalis Westminster is a leading global marine contractor and services provider. With safety as our core value, we offer a wide variety of specialist activities to the oil & gas and renewables sectors. These activities include marine installation and decommissioning, seabed intervention, marine transport and services, subsea services and marine survey. In addition, Boskalis is a global dredging contractor, provides towage and terminal services across the globe and delivers marine salvage solutions.

By understanding what drives our clients we are able to provide the solutions that enable them to meet their specific business goals. For this reason we are constantly looking for new ways to broaden and optimize our offering and are committed to expanding our proposition, supported by our financial strength.

With our committed professionals in engineering, project management and operations, 900 specialized vessels and an unprecedented breadth of activities in 90 countries across six continents we help our clients in the offshore industry push boundaries and create new horizons.

## INTRODUCTION

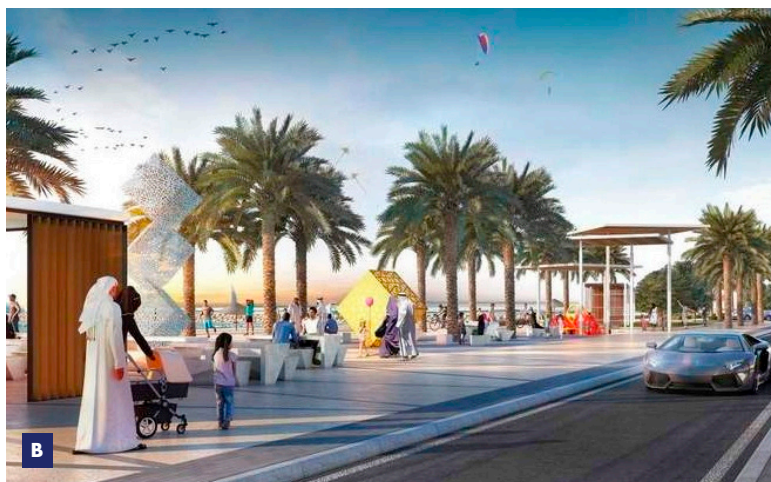
The Sharjah Beach Development Project, part of the strategic plan of the Sharjah Urban Planning Council (SUPC), aims to develop world-class public amenities, enhance tourism infrastructure and improve the standard of living in the Emirate. The landmark project consists of a waterfront promenade with cycling and walking tracks and five beach areas, which stretch along the Sharjah Beach Road from the Ajman border to the Sharjah Ladies Club. Furthermore, the project included the construction of about 1,100 vehicles parking spots and added 200,000 square meters of public space to the emirate, as approved by Dr. Sheikh Sultan Bin Mohammed Al Qasimi, Ruler of Sharjah.



**A**

## FEATURES

Client	Department Public Works, Government of Sharjah
Location	Sharjah, United Arab Emirates
Period	March 2017- August 2017
Contractor	Boskalis Westminster Contracting Limited



**B**

- A** Pump ashore operations at bay nr 2.
- B** Handout photo of Sharjah Beach Development Project.

Boskalis executed the nourishment of five new bays with beach sand material, and the construction of a new groyne system.

## PROJECT DESCRIPTION

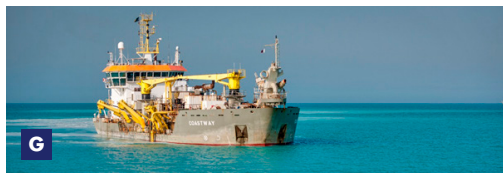
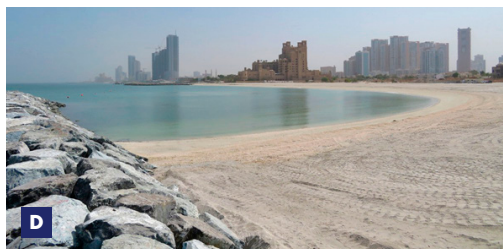
The beach nourishment activity was executed by deploying a medium size Trailer Suction Hopper Dredger Coastway, which borrowed the material offshore and transported the sand to the beach. By using floating, sinker and shore pipeline, the material was pumped to the shoreline, where dryplant was used to level the material and to place the sand into profile. A total quantity of 900,000 m<sup>3</sup> was delivered to the site.

The existing rock structures were almost fully stripped as much as possible by removing the armour and filter layers and the recovered material was placed in stockpiles on the beach, so it could subsequently be reused in the new structures. In addition, rock material was transported by road to the project site. All rock activities were executed from the land side, by deploying long reach equipment.

## ONGOING ROAD CONSTRUCTION ACTIVITY

A local road contractor had commenced already with the widening of the coastal road to increase the traffic capacity and required 12 months to complete the road works. As a result, access from the land side to the project site was limited during the project execution stage, impacting significantly the access routes for the supply of rock material and any dry plant equipment. In addition, the road contractor required additional sand material to allow for the widening of the road area at an early stage already.

The supply and transport of rock material started immediately after the award of contract. At the same time preparatory works, such as mobilising the pipes and dryplant, commenced for the beach nourishment activities. Due to the limited time, the rock works and sand supply operations were executed at the same time, continuing during day and night. Typically, rock supply and placement took place at least 4 groynes at the same time. Close contact was maintained during the works with all related stakeholders, such as client, resident engineer but also regularly with the road contractors and other parties, which have utilities on or near the project site.



### PROJECT CHALLENGES

The main challenges encountered during the execution of the works was the limited access to the site, due to ongoing road construction activities, and the tight timeline of 26 weeks, which coincided with the hot summer months. During the summer, from June to September, the labour operations in the day time were suspended, in line with the mandatory midday break as described by the Ministry of Human Resources and Emiratization.

### SAFETY MEASURES

The continuous effort to maintain Boskalis No Injury No Accidents (NINA) program safety standards and extend the same to our sub-contractors resulted in an overall safety level and was implemented in all facets of the project and adopted by the client and all subcontractors. Special attention was given to the related safety aspects, such as managing several different types of activities and interface with other contractors / general public, continuity of safe production in hot summer temperatures and the holy month of Ramadan. On a daily basis toolbox meeting were organised and precautions taken to ensure a safe approach of all activities, in the spirit of NINA.

### CONCLUSION

The project was executed successfully by Boskalis in compliance with the tight timeline requirements, maintaining high safety levels and without causing delays to the project stakeholders.



- C** Construction of groyne nr 1.
- D** View from groyne nr 5.
- E** Placing rock armour material on groyne nr 4.
- F** Aerial view on bay nr 4 and 5.
- G** Trailer suction hopper dredger Coastway.
- H** Finalizing construction of groyne nr 3.
- I** View from groyne nr 4.

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