

The coast of Norfolk is prone to erosion caused by the water that is forced into the British Channel by winds from northern directions. In 1953 the village of Sea Palling suffered severe damage and eight residents lost their lives in the floodwaters that broke through the meagre line of dunes and flooded the village. It was then decided to build a sea defence to prevent a repetition of this disaster.

The UK Environment Agency awarded Team Van Oord the £10.5m Happisburgh to Winterton Sea Defences Stage 3B project and work commenced on site in August 2008.

The works comprised the replacement of existing timber groynes with rock groynes, reconstruction of a length of rock revetment toe protection for the existing seawall and a beach recharge campaign. In total, 33,100 tonnes of rock was used to construct ten groynes of 80m in length at Bramble Hill, Horsey, as well as a revetment section measuring 275m in length at Eccles-on-Sea.

In addition, approximately 524,000m³ of sand was required for the beach recharge campaign which was dredged from a licensed area 15km offshore between Lowestoft and Great Yarmouth and pumped ashore via a sinkerline. A total stretch of 3.6km was recharged at Waxham and Sea Palling.



The project was undertaken within an environmentally sensitive location, being the area commonly used by grey and common seals during their pupping season which starts in early November through to the end of January. To mitigate negative effects and disturbance to the seals, a

Client

Environment Agency

Principal Contractor

Team Van Oord

Duration

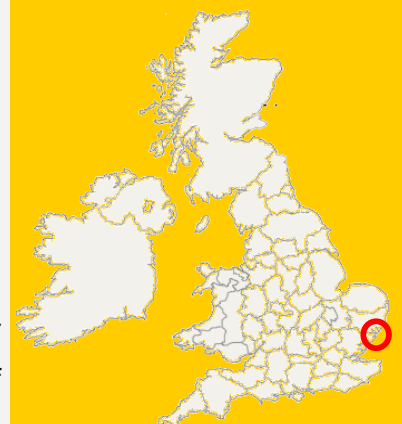
32 weeks

Value

£10.5 Million

Scope

Undertaken as part of a long term sea defence project between Happisburgh and Winterton-on-Sea which forms part of the current Coastal Management Plan of the Environment Agency.



specialist ecologist was hired to monitor the behaviour of the seals and provide advice on measures to be taken (for example plant movements were diverted via an alternative route instead of using a haul road along the beach). The numbers of new born seal pups counted were more than ever before, so the measures taken were indeed a success.



Other Relevant Companies:

Stema Shipping	Supply Chain Partner
Abeko	Supply Chain Partner

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