

# Hengistbury Head – Repair & Recovery 2014



Overview & Scrutiny Panel  
12<sup>th</sup> March 2015

# Project Overview

After considerable damage to the national flood and coast protection infrastructure during the winter of 2013/14 the Government requested the Environment Agency to invite applications for Repair & Recovery from Local Authorities.

Bournemouth was hit by a series of storms which drew down the beach and then heavy swell on 3rd March caused a considerable amount of damage.

Bournemouth made an application for the repairs to Hengistbury Head Long Groyne, Rock Groynes 55, 56 & 57, Gabions at Double Dykes and the replacement of lost beach fill to the value of £2,640,000.

The Council received written confirmation of EA approval and FDGiA funding for the project .

With the Government setting a deadline for all Flood and Coast Protection assets to be fully repaired by the 31<sup>st</sup> October 2014, the only viable option was for the projects to be bundled and given to the EA nominated framework contractor for the Wessex Region.



# Hengistbury Head Long Groyne, Storm damage

- Rock armour on the western side reduced as settlement occurred.
- Rock armour on the eastern side settled.
- Concrete deck slabs washed of deck and deposited to the east.
- Main concrete structure damaged where rock armour has been displaced.



# Rock Groynes 55, 56 & 57, Storm damage

- Rock armour on the roundheads of all three groynes were displaced landward or had been lost presumably buried in the beach either side of the groynes.
- The navigation beacon was slightly damaged on groyne 55.
- The navigation beacon was badly damaged on groyne 56.
- The navigation beacon was washed out on groyne 57.
- The damage was progressively worsened to the east



# Gabions at Double Dykes, Storm damage

- Gabion baskets were abraded and corroded.
- Considerable amount of rock had been washed out of the gabion baskets.
- Several empty baskets had been crushed from full baskets above.
- Top tier of gabions had settled.



# Hengistbury Head Long Groyne, Repairs

- The repairs consisted of repacking of existing armour and the installation of additional 5-7 tonne rock armour to the western and eastern sides of long groyne.
- A total of 1500 tonnes of additional rock armour was placed.
- New beacon was installed to replace existing damaged beacon.



# Rock Groynes 55, 56 & 57, Repairs

- The repairs consisted of repacking the existing armour and the installation of additional 5-7 tonne rock armour to the roundheads of all three groynes.
- A total of 3300 tonnes of additional rock armour was placed to all three groynes.
- New beacon structures have been built in the roundheads with new beacons attached.



# Gabions at Double Dykes, Repairs

- 7 tiers of gabion baskets over a 53m length have been replaced.
- Approximately 50% of the existing stone was recycled back into the new baskets.



# Project Completion

- Emergency groyne repair works completed by 31<sup>st</sup> October 2014
- Additional works to protection wall at Double Dykes Work completed in mid-December 2014
- All works completed within EA secured budgets (Total £800,000) including Council direct costs.
- Construction through the EA's WEM (Water & Environmental Management) Framework contractor Team Van Oord (TVO).

# Beach Replenishment

- Beach Replenishment for Repair & Recovery deferred until 2015/16 144,000m<sup>3</sup>
- Bournemouth Beach Management Phase 1 – (BIS5 Beach Replenishment 2015/16)  
210,00m<sup>3</sup>
- Total volume of beach to replace (2015/16) 354,000m<sup>3</sup>.
- Council will benefit on overall cost of BIS5

Questions?

