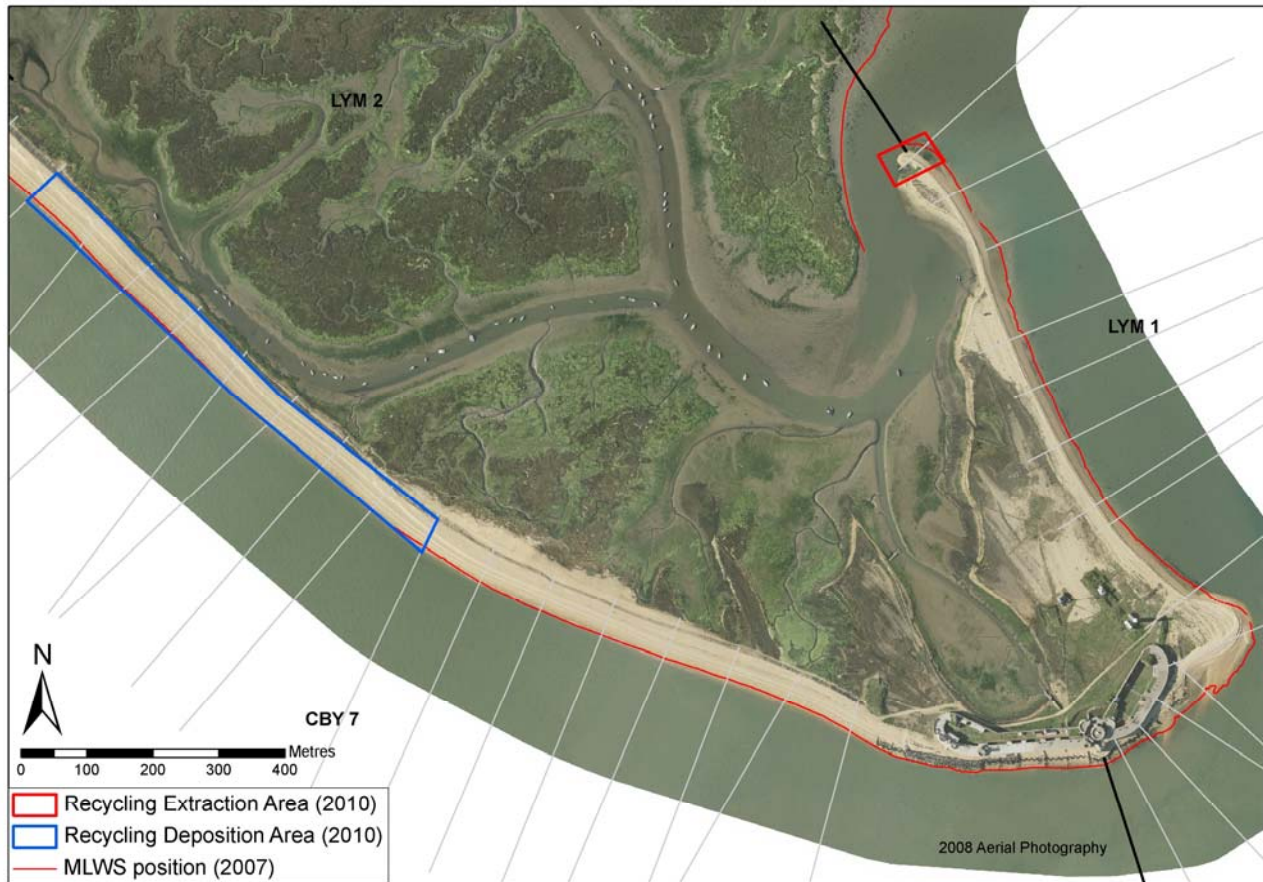


Policy Unit: 5c LYM1

Hurst Castle to North Point

Topographic Beach Profiles 5f00003 – 5c00574



Summary

North Point is the name given to the distal arm of Hurst Spit, beginning at Hurst Castle. The Castle marks the western entrance to the Solent, fronting Hurst Narrows which experiences strong currents (up to $2\text{-}3\text{ms}^{-1}$) and reversing eddies. The prevailing sediment transport direction is southwest to northeast. Sediment is transported northwards along the spit, building up the beach at the northern tip. Here, the beach naturally accretes on its seaward face but has rolled back. The rate of northward extension diminishes with proximity to the channel, where a distal recurve has formed. A deep channel (around -2.5m OD) lies immediately north of the spit. Hurst Spit and North Point provide a natural harbour at Keyhaven and protect the designated inter-tidal habitats situated there.

A beach recycling scheme has been in place since 1996 and involves extraction of sediment from North Point tip down to around -2.5m OD . Sediment is deposited and re-profiled on Hurst. Sediment placed on Hurst tends to either work its way back to North Point or become stored near the Shingles Bank.

This policy unit is mainly undefended, except for the frontage around Hurst Castle where there are timber groynes and revetments.

Survey Regime

Survey type	Frequency	Profile spacing/survey extent
<i>Topographic baseline</i>	Annual and pre/post recycling	50m to MLWS
<i>Topographic interim profile</i>	Spring and Autumn	50m -150m to MLWS
<i>Bathymetry</i>	Annual and pre/post recycling	50m profiles to 1km offshore
<i>Ortho-photography</i>	5 years	MLW
<i>Non-rectified aerial photography</i>	Annual	MLW
<i>Lidar</i>	Annual	MLW
<i>Habitat mapping</i>	5 Years	Extent of ortho-photography

Summary of beach operations

Date	Operation	Quantity (m ³)	Location/Notes
2010			
March/April 2010	Beach Recycling	4,865	Extracted from North Point (after profile 5c00574 down to -2.5m OD). Placed on Hurst Spit between profiles 5f00052 - 29 (majority between 5f00045 - 37)
2007			
March/April 2007	Beach Recycling	5,283	Extracted from North Point down to -2.5m OD and placed on Hurst Spit
2004			
Nov 2004/Jan 2005	Beach Recycling	5,071	Extracted from North Point down to -2.5m OD and placed on Hurst Spit
2001			
July/Oct 2001	Beach Recycling	5,906	Extracted from North Point down to -2.5m OD and placed on Hurst Spit
1996			
Oct/Nov 1996	Beach Recycling	10,430	Extracted from North Point down to -2.5m OD and placed on Hurst Spit

Full details of beach operations can be obtained from New Forest District Council