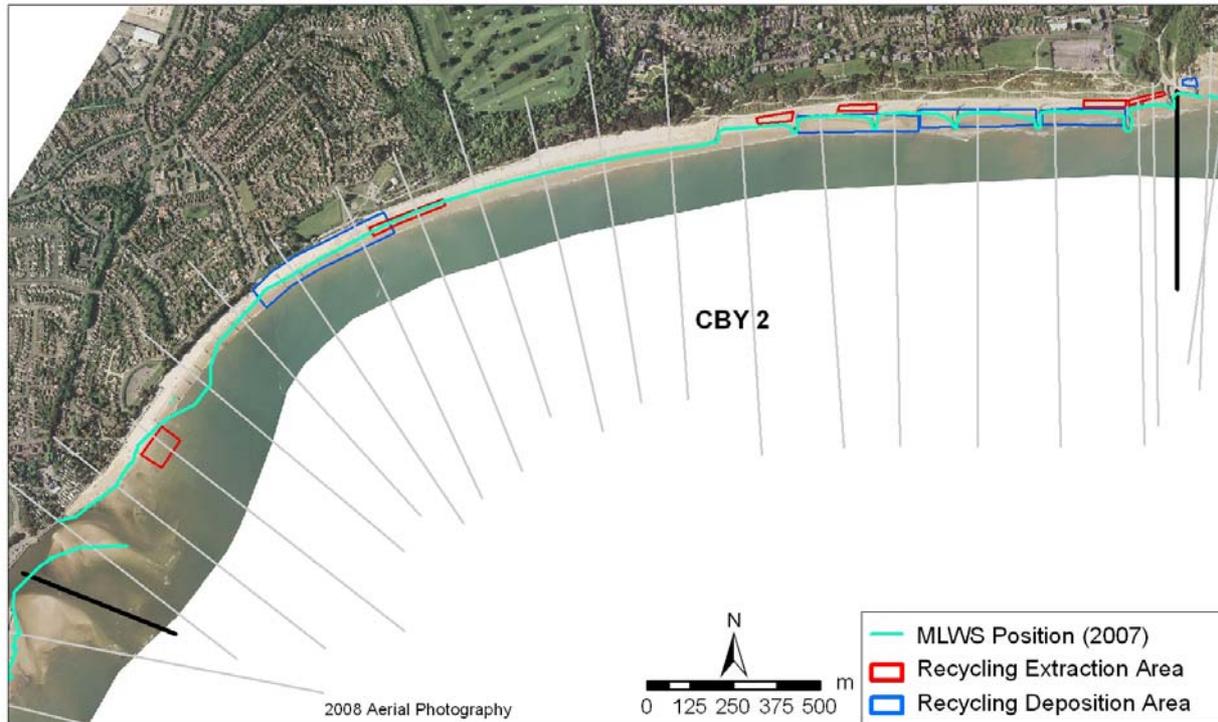


Policy Unit: 5f CBY2

Avon Beach to Highcliffe

Topographic Beach Profiles 5f00300 to 5f00228



Summary

The policy unit for CBY2 stretches from Mundeford, where the entrance to Christchurch Harbour (also known as 'The Run') forms the western boundary, to the easternmost rock groyne at Highcliffe. The frontage at Highcliffe is heavily defended by an alongshore buried revetment and 12 rock armour groynes. The beach here is predominately shingle, with a base of sand exposed at low water, which fronts steep vegetated cliffs that are now relatively stable due to the protection from the defences. Further west, the beach becomes wider and is largely sand with patches of shingle and backed by low lying dunes. This stretch of beach is undefended for approximately 700m between Highcliffe and Friars Cliff. The vegetated cliffs begin to reduce in height from Steamer Point towards Friars Cliff where the beach is backed by a seawall with timber groynes. Further south at Avon beach, the sandy beach becomes wider and is backed by a low seawall with timber and rock groynes.

Recycling operations within this unit are periodic and based on maintaining sufficient beach in order to afford protection to the sea defences and to prevent undermining. Material is often won from the natural sand sink at the entrance to Christchurch harbour and deposited on the nearby beaches of Avon and Friars cliff.

Survey Regime

Survey type	Frequency	Profile spacing/survey extent
<i>Topographic baseline</i>	5 years	30-65m to MLWS
<i>Topographic interim profile</i>	Spring and autumn	40-245m to MLWS
<i>Bathymetry</i>	Annual	50m profiles to 1km offshore
<i>Ortho-photography</i>	5 years	MLWN
<i>Non-rectified aerial photography</i>	Annual	MLWN
<i>Lidar</i>	Years 1, 2, 3, 5	MLWN
<i>Habitat mapping</i>	5 Years	Extent of ortho-photography

Summary of beach operations

Date	Operation	Quantity (m ³)	Location/Notes
2009			
02/03/09	Extraction	470	Material taken from a stockpile of gravel between groynes H3-H4
02/03/09	Deposition	470	Material placed between groynes H5-H8
02/03/09	Extraction	430	Stockpile of reclaimed gravel above groyne bay H10-H11
02/03/09	Deposition	430	Material placed behind groyne H12
2008			
No recycling			
2007			
No recycling			
2006			
10/02/06	Extraction	2124	Mixed sand and gravel removed from between groynes H1-H2
10/02/06	Deposition	2124	Material placed between groynes H2-H6 to increase crest height and berm
17/02/06	Extraction	1020	Material removed from stockpile created above groyne bay H9-H10
17/02/06	Deposition	1020	Material placed between groynes H4-H8 due to depleted berms at the back of the beach and exposure of old timber revetment.
28/04/06	Extraction	1785	Recycling of sand from sand bar off Avon beach between groyne M4 and M5
28/04/06	Deposition	1785	Material placed between groynes M13 and F7 at Friars Cliff
30/06/06	Extraction	1605	Material removed from just above high water line between groyne F6-F9 at Friars Cliff
30/06/06	Deposition	1605	Beach material placed at the back of each bay between groynes F2 and F6
2005			
No recycling			
2004			
No recycling			

Full details of beach operations can be obtained from Christchurch Borough Council