

# Sidmouth & East Beach Management Plan (BMP)

## Short-List Option #S1

A: Jacob's Ladder Beach and Connaught Gardens	B: Sidmouth Town	C: East Beach	D: River Sid Western Wall
<p>Undertake maintenance of seawall, promenade and rock revetment including re-packing of rock, guided by regular inspection.</p> <p>Periodic removal of shingle from Jacob's Ladder Beach promenade area, with sediment placed to the west of the wall within this sediment cell.</p> <p>This is the same as in Options S2, S3 and S4.</p>	<p>Maintain existing defence configuration. Repair and shorten length of both the current freestanding section of training wall and East Pier. Undertake periodic beach recharge to maintain volume to level of design beach, supported by ongoing beach recycling.</p>	<p>Construct 1 short/low level rock groyne to the east of the River Sid to aid beach levels control as it transitions eastwards; supported by periodic beach recycling within Frontage B.</p> <p>This is the same as in Options S2 and S3.</p> <p>Note, a sensitivity test will be done on the implications of constructing 2 groynes instead of 1.</p>	<p>Undertake maintenance of the existing River Sid western wall for as long as is economically viable then replace with a coastal standard wall as it becomes at risk of being exposed by erosion at East Beach.</p> <p>This is the same as in Options S2, S3 and S4.</p>

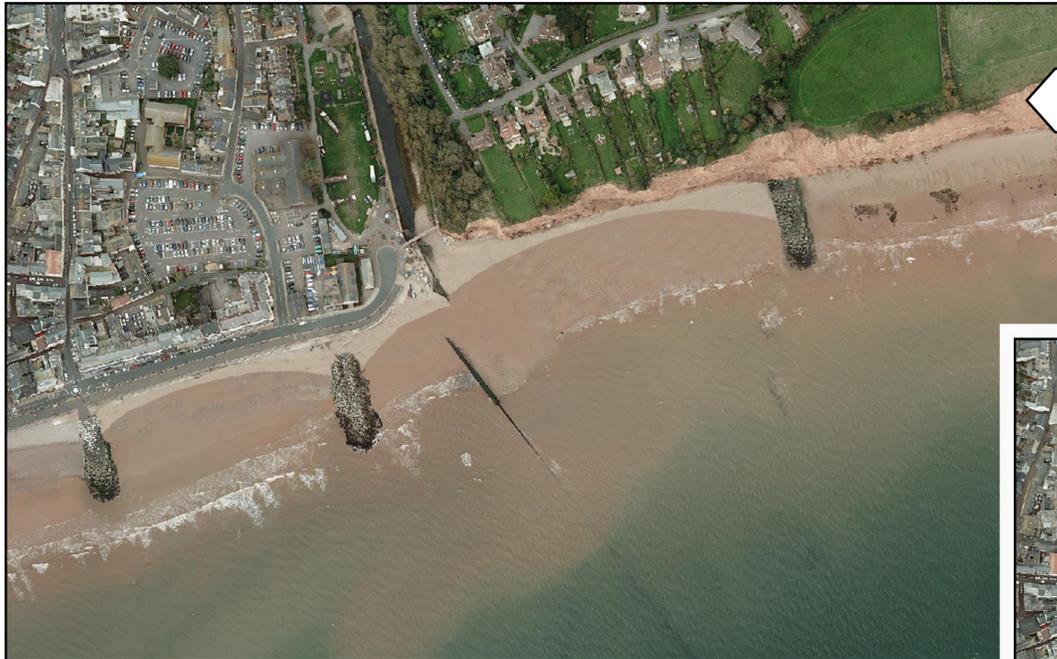
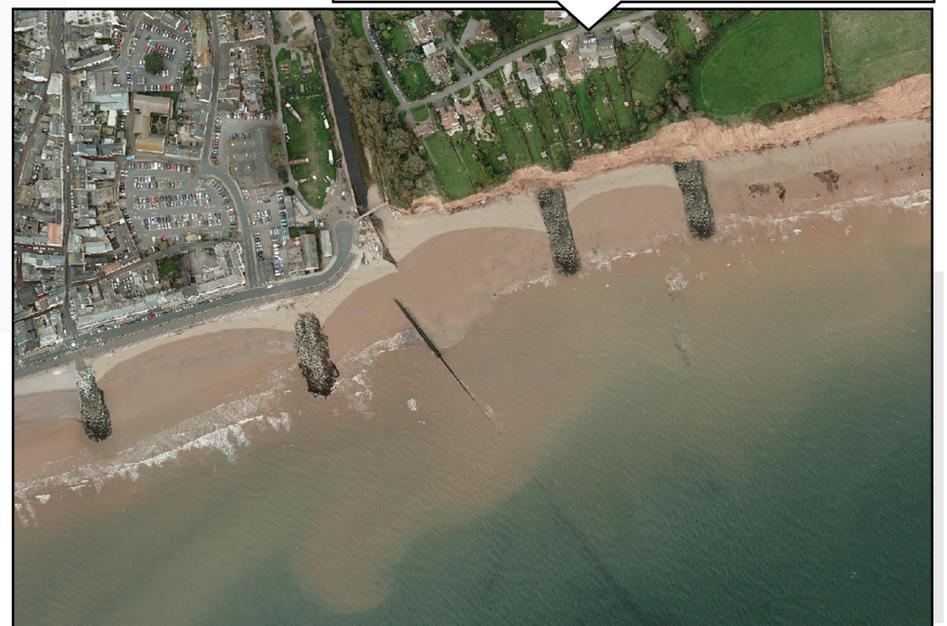


Illustration of how 1 groyne along East Beach could look

Please note, that these are provided for illustration of the option only and are subject to change and refinement as part of further detailed investigations to develop the final design should this be taken forward as the preferred option.

Illustration of how 2 groynes along East Beach could look



### Key points from Technical Appraisal

- Provides required standard of flood risk protection, increasing potential for future development within the Sidmouth frontage.
- No residential or commercial properties would be lost to erosion within 100 years.
- Option protects tourism and amenity interests including SW Coast Path National Trail, beach huts and Connaught Gardens from erosion.
- Delays and reduces impact of erosion of East Cliff on Alma Bridge and River Sid western wall, but does not prevent it.
- Assumes commitment to regular beach recycling and recharge as beach levels will still be quite variable.
- Reduction in length of training wall along River Sid improves connectivity to East Beach.
- Two groyne option likely to perform better than one groyne option along East Beach.

### Key points from Economic Appraisal

- **Estimated Cost:** £11,004,000
- **Benefit:Cost Ratio:** 7.8
- **Amount of Partnership Funding Contribution required:** £5,997,000

### Key points from Environmental Appraisal

Receptor	Potential impacts of option
Geology Geomorphology	Changes to coastal processes by the implementation of the scheme within all but East Beach sections will promote natural coastal processes rather than inhibit. No in-combination effects to UNESCO World Heritage Site and nationally designated geological are envisaged..
Water quality	Increased threat of greater chemical pollution (chemical composition unknown) by increased volume of sediment
Ecology	Potential increased impact on nationally and internationally designated ecological features including SAC features and BAP Habitats.
Fisheries	Temporary effects to launch/landing access from construction and maintenance works if undertaken across all four frontage sections at a similar time
Navigation	Temporary in-combination effects to launch/landing access from construction and maintenance works if undertaken across all four frontage sections at a similar time.
Landscape	Short term visual impact during construction. Long term, a greater visual impact from changes at Sidmouth Town and East Beach on setting of designated and non-designated features including Sidmouth Town Centre Conservation Area, listed buildings, WHS, East Devon AONB, East Devon Heritage Coast and the Blackdowns NCA.
Archaeology and Cultural Heritage	Potential long term effect on the setting of cultural heritage asset.
Air quality	Any effects are considered negligible.
Noise	Increased noise and vibration impacts during construction works.
Amenity value	Potential temporary, negative effect on amenity value during construction periods. Positive impact of ensuring beach is provided for amenity benefit through ongoing regular beach recharge and recycling.