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# PROJECT: SUNDERLAND COASTAL MAINTENANCE

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VALUE: £190,000 pa  
ROLE: MAIN CONTRACTOR  
START DATE: 2008  
COMPLETION: 2011

CLIENT: SUNDERLAND CITY COUNCIL  
JACK CRAWFORD HOUSE  
HENDON  
SUNDERLAND

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In 2008 Southbay were awarded a 2 year maintenance framework agreement by Sunderland City Council for all of their coastal maintenance. The works ranged from minor sea wall and groyne repairs to new beach access ramps. During the 2 years Southbay carried out various works, many of them working against the tide in harsh conditions. On completion of the framework agreement the council extended the contract by 1 year till the end of 2010.

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## Marine Walk, Sunderland

350m of seawall repairs were carried out on a popular beach in Sunderland after erosion from the sea. The 3m high x 300mm thick repairs were carried out in 10m sections and consisted of 2m of beach material being removed daily and the existing seawall cleaned down and any loose material removed. Dowels were drilled and resin fixed into the wall at 500mm centres and the formwork erected. Bespoke prefabricated steel shutters were used and these were lifted in sections and bolted together and secured to the existing seawall. Anti-washout concrete was used to prevent further damage during the curing process. On completion of curing the shutters were removed and work on the next section commenced. The works were carried out in tidal conditions and programmed around school holidays, bad weather and high tides.



*Drilling dowels into the seawall at Marine Walk*

## Hendon Outfall Ramp, Sunderland

Construction of a concrete and sheet piled ramp to give access over an outfall pipe on the beach. Sheet piles were installed to form the structure and anti-wash out concrete was used to for the ramp and copings. The works involved working in very challenging tidal conditions and clearing beach deposits on a daily basis.

## Ryhope Emergency Repairs, Sunderland

Emergency repairs to an outfall pipe were required during the winter of 2009. The outfall situated at Ryhope was in danger of fracturing due to the concrete surround being eroded due to wave action.

Temporary dumpy bags were placed around the excavated area to give some extra protection from the tide. Concrete was then placed under the pipe to support it and allowed to cure. Following the underpinning the beach material was reinstated to the required level and a concrete surround was placed on the pipe to give full protection to the outfall.



*New ramp over the outfall at Hendon*