

Case Study:
Weston Super Mare,
Somerset



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The boom rig was selected by the client due to a number of constraints surrounding the execution of a number of boreholes adjacent to a tidal waterway. In addition, the sloped nature of the adjacent flood defence meant that a conventional rig could not be effectively deployed without ‘benching in’ around the borehole location.

Due to the tidal nature of the waterway, if a conventional drilling rig was successfully setup on position, it would need to be removed before high tide and setup again as the tide fell. To this end, ADS’ boom-mounted rig offered a significant cost-saving and potentially environmentally safer alternative to the conventional approach to undertaking these boreholes.

Ground conditions comprised made ground to around 3 metres, with soft silty clay alluvium to 20 metres with Mercia Mudstone thereafter to the base of the boreholes at 35m. The Boom mounted rig was able to sample and case through the deposits of alluvium with ease, and when the competent Mercia Mudstone was encountered, cored in T6-116 to provide samples with a 90mm core diameter.

Due to the environmentally sensitive nature of the site, as well as the requirement for 100% sample recovery, water flush was chosen. In order to ensure that the drilling locations were kept as clean as possible, the boreholes were drilled using drill-through tanks allowing the flush to be pumped up to settlement tanks to allow for any cuttings to fall out of suspension, before the water was recirculated down to the bit once more.

Capabilities At A Glance:

- Maximum Diameter Through Clamps: 150mm/6”
- Machine Compatibility: Designed for 8 tonne excavator, adaptor plate to suit 14 tonne or 25 tonne 360.
- Fully jointable mast – Can be positioned in 360 degrees in any axis.

Method	Depth
Dynamic Sample	10 metres
Open Hole	40 metres
Geobor-S	30 metres
Conventional Coring	40 metres



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