

# PIPE JACKING CASE STUDY

## Coast Road, Laytown



[www.pipejacking.org](http://www.pipejacking.org)

PROJECT	Coast Road, Laytown
CLIENT	Sammon Group
CONTRACTOR	Terra Solutions Limited
TUNNELLING MACHINE	1500mm pipejack
VALUE	€160,000



### PROJECT OVERVIEW

As part of a local school development drainage & culvert infrastructure required upgrading. In particular an existing twin 450mm culvert arrangement across the R150 Coast Road at Bettystown, Co. Meath required an increase in capacity to 1500mm. Although the culvert was only 20m in length the project came with its unique set of challenges which included a requirement for an above ground backwall, no disruption or over-pumping of the current flow, environmental considerations due to the close proximity to a blue flag beach, and a requirement to maintain the existing headwalls.

### DESCRIPTION OF WORKS

At the launch side, a stone mattress was created with inbuilt pipework to allow the stream to continue flow during the works behind the rams. Further a stand-alone, above ground backwall was designed and constructed to allow the pipejack. The existing headwalls were supported then cored to allow the diameter increase for the new pipejack.

The pipe jack itself encapsulated the existing stream so running water was present during the duration of the works and during the works a pedestrian access to the beach had to be maintained which severely limited access.

The ground material was a composite of stiff to very stiff granular and clay fill material with large cobbles.

FURTHER INFORMATION: [www.terrasolutions.co.uk](http://www.terrasolutions.co.uk)

