



VICTORIA TERMINAL 2, BELFAST HARBOUR Land and Over Water Ground Investigation

Project Information Project: 17-0324 August 2017

VICTORIA TERMINAL 2, BELFAST HARBOUR GROUND INVESTIGATION

Client: Belfast Harbour

Client's Representative: Doran Consulting

Site operations: July to August 2017



Jack-up barge set-up in position over a borehole location within Belfast Harbour



A vibracore sampler being lowered into the water at location within VT2 berth

Over water works were carried out from a jack up barge OCM80 utilising a 10T mobile crane



Rotary drilling works underway at a marine borehole location

Causeway Geotech were appointed by Belfast Harbour to carry out land and overwater ground investigation works for provision of geotechnical and environmental information to characterise ground conditions within Belfast Harbour, as well as a number of locations along the existing dock within Victoria Terminal 2. This was to allow for input to the design and construction of a proposed new two-tier linkspan and associated berthing infrastructure for future Ro-Ro vessels that will be operating on the Stena Line Belfast to Liverpool Service in 2019.

The scope of works included:

Over Land Operations

- 10 boreholes by cable percussion boring
- Geobor S wireline coring at 8 locations
- 1 static piezocone penetration test

Over Water Operations

- 4 boreholes by symmetrix-cased full hole rotary percussive drilling methods
- 22 Vibracore boreholes
- 7 static piezocone penetration tests

All works were carried out in a narrow window between sailings from 10.30am to 4.30pm under the supervision of a chartered Engineer from Causeway Geotech, who liaised with the Client's Representative at each stage of the project.

Extensive geotechnical and environmental sediment sampling was undertaken across the site.

Factual and interpretative reports were issued following completion of site works including recommendations for construction of the two-tier linkspan and associated berthing infrastructure.

The project was completed on schedule without any shipping disruption.