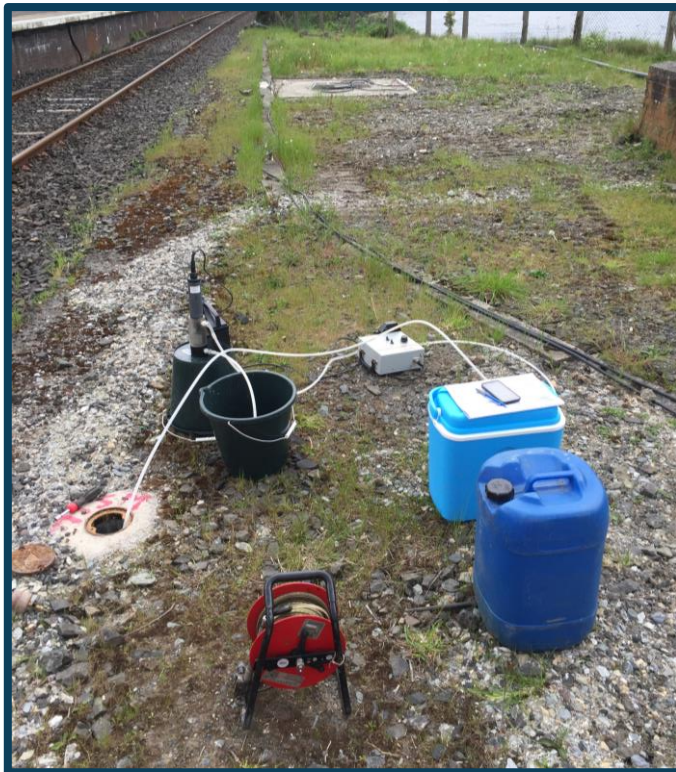




Dynamic sampling rig set up over borehole location along railway.



Low flow groundwater sampling equipment at monitoring well. In-situ and laboratory testing of groundwater chemistry was carried out.

## Project Information

### WATERSIDE RAILWAY STATION, DERRY

**Client:** Translink

**Client's Representative:** Ashfield Solutions

**Principal Designer:** Mott MacDonald

**Site operations:** Phase 1: December 2015  
to February 2016

Phase 2: May 2016

**Causeway Geotech** were appointed by Translink to carry out geo-environmental ground investigation works for the redevelopment of the Waterside Railway Station, located on the eastern bank of the River Foyle. The scope of works included an extensive collection of exploratory holes along the railway which were completed under rail possessions.

The scope of works over the two phases comprised a total of:

- 36 boreholes by dynamic sampling using Dando Terrier rigs
- 8 boreholes by cable percussion boring
- Rotary follow-on drilling by PQ wireline techniques at 7 borehole locations
- 4 trial pits and trenches by mechanical excavator mounted on a rail-road vehicle (RRV)
- Extensive geotechnical and environmental sampling and in-situ testing
- VOC testing of environmental samples prior to their dispatch to the testing house
- Ground gas monitoring using a GA5000 gas meter
- Low flow groundwater sampling and in-situ groundwater chemistry testing
- Factual ground investigation report.

Works were carried out under the supervision of a team of site engineers, under the direction of a Senior Geo-Environmental Engineer, from Causeway Geotech who liaised with the Client's Representative accordingly.