

CITY DEALS GLASGOW Over Water Ground Investigation

Project Information Project: 16-1197 May 2017

CITY DEALS OVER WATER GROUND INVESTIGATION

Client: Renfrewshire Council
Client's Representative: SWECO Consulting Engineers
Site operations: January to March 2017



Jack-up barge set-up in position over borehole location

Causeway Geotech were appointed by Renfrewshire Council to carry out overwater ground investigation works for provision of geotechnical and environmental information to characterise ground conditions at the river bed alongside an existing dock, as well as a number of locations along the existing riverbanks for input to the design and construction of a proposed new quayside and a pair of road bridges.

The scope of works included:

CWRR Area

- 10 overwater boreholes by cable percussion boring and Geobor S wireline coring for the quayside and bridge works
- Piston and Environmental sampling of the soft sediments for Marine Scotland dredge analyses

GAIA Area

- 4 overwater boreholes by cable percussion boring and Geobor S wireline coring for the bridge works
- Waterborne geophysical surveys of both works area for Bathymetry, Sub Bottom Profile, Side Scan Sonar, and Magnetometer
- Overwater works at both locations carried out off a C5 jack-up barge supplied by Ocean Crest Marine
- Factual ground investigation reports

Works were carried out under the supervision of a team of two Site Engineers from Causeway Geotech who liaised with the Client's Representative and Peel Ports Authority.

Overwater works were carried out on a 24/7 working hours basis to expedite delivery of the site works programme.

Independent noise surveys were conducted due to the proximity of the works area to residential properties. Noise attenuation measures were adopted to ensure minimal impact to residents.

The project was completed ahead of schedule without any complaints.



Site works conducted 24/7 with two crews working alternate 12 hour shifts



Acoustic attenuation panels and tower lights allow production through the night



Drilling works underway at a riverbank borehole location