

Forth Replacement Crossing Network Connections South - Additional GI

Client :
Transport Scotland

Engineer :
Jacobs / Arup JV

Location :
South Queensferry, Scotland

Date :
2009



Following a phase of ground investigation for the Forth Replacement Crossing southern approach road in 2008, BAM Ritchies followed up with a second phase on 2009 on land where the new network connections are planned to be built and in locations on the current road network.

This included works to establish the condition of the existing roads on the A90 in the south, A8000, M9 spur and M9 and required traffic management in some areas.

The workscope included:-

- 88 cable percussive boreholes to a maximum depth of 30 metres
- 3 terrier boreholes to 5m depth
- 63 rotary boreholes to a maximum depth of 90 metres
- 91 machine-dug trial pits
- 102 road pavement core holes
- In-situ permeability, packer and acoustic televiewer testing in boreholes
- In-situ CBR and MCV testing in trial pits
- Installation of gas / groundwater standpipes together with return monitoring / sampling visits
- Excavation by hand and machine to expose oil pipelines and other major buried services
- Logging of recovered soil samples and rock cores
- Laboratory testing
- Factual report production