

Airport Link Tunnel - Geotechnical, QLD

CLIENT Thiess John Holland Joint Venture

YEAR 2008 - 2011

SCOPE OF WORK

- Geotechnical investigations
- Laboratory testing
- Specialist instrumentation & monitoring
- Project, quality, health, safety & environmental management

The Airport Link Project, together with the Northern Busway and Airport Roundabout Upgrade, is currently the largest infrastructure project in Australia consisting of 11 kilometres of roads and tunnel ramps.

“This project required extensive and careful management of personnel, resources and data to ensure the client’s needs were met ahead of time. Despite initial logistical difficulties, the project was transformed by a highly professional team that was both flexible and accommodating.”

Chris Bell - Principal / Geotechnical Engineer



Airport Link is a 6.7 kilometre multi-lane electronic free-flow tollroad with dual 5.7 kilometre tunnels

In June 2008, Douglas Partners (DP) was part of the winning bid for the Airport Link Project in Brisbane, Qld. The Airport Link Project, together with the Northern Busway and Airport Roundabout Upgrade, is currently the largest infrastructure project in Australia. It consists of a system of 11 kilometres of roads and tunnel ramps located in the inner city suburbs and airport district of Brisbane. DP’s geotechnical team provided on site supervision of the geotechnical investigation bores and installation of specialist ground monitoring equipment. Additional temporary works design and advice was provided as required.

In order to ensure the quality of the subsurface data, a dedicated quality assurance engineer was assigned to review and modify the field logs as necessary, advise field staff of any trends or anomalies, and ensure production of electronic logs within 48 hours of completion of drilling.

Drill crews and supervisors were frequently relocated to target specific project areas which reduced project design and construction delays, as well as mitigating any possible disruption to the community and ensured that the

investigation was delivered on time and on budget.

DP’s scope of work included:

- Project management, quality management, health safety and environment management of the investigations crews;
- Supervision of up to 6 drill rigs and 1 CPT rig at any one time on both day and night shifts;
- Drilling of 264 test bores and pushing of 142 Cone Penetration Tests in urban areas;
- Insitu testing included shear vane, packer, pressuremeter, ATV, pump testing, dissipation, and hydrofracture.



EARTHWORKS

GEOTECHNICS