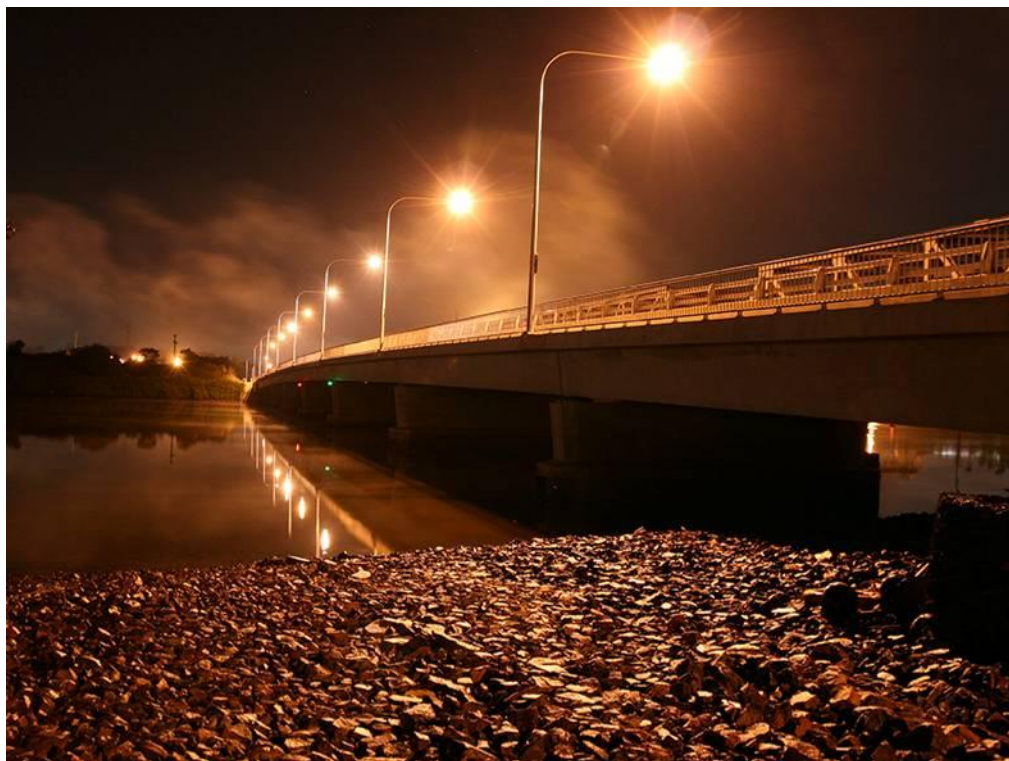




Name TOURLE STREET BRIDGE REPLACEMENT

Client RTA of NSW



- Project Description**
- Construction of bridge including:
 - Tubular steel piles
 - Abutments
 - Reinforced concrete piers
 - 255m, 8 span prestressed concrete girder bridge
 - Traffic barrier railings
 - Road pavements
 - 300mm stormwater & 600mm watermain
 - Earthworks including pre-consolidation of soils and construction of embankments, 680m of approach road works

Site Location Mayfield West- Kooragang Island

Value \$30.3 million

Duration September 2008 - May 2009

Referees Mr Peter McTackett – 02 4924 0318





Key Personnel

Project Manager – Justin Foot
Superintendent – Rod Lang
Supervisor – Matt Burgin

Significant Achievements

- The project is expected to be completed approximately 10 weeks ahead of schedule
- An innovative girder launching system was utilised on the project to overcome practical limitations. A purpose-built 70m long, 130t gantry was employed to place girders for the bridge, which also provided a high level of precision during placement
- An underground bentonite cut-off wall was constructed on the Southern approach to prevent spread of existing industrial waste contamination (benzene plume) into the adjacent groundwater and surface water systems
- Steel casings were installed prior to the driving of concrete piles as protective sleeves to prevent the surrounding contaminated soil and groundwater making contact with the piles
- Extensive planning was required to coordinate and allow watermain relocation, approach works, and bridge works to be carried out simultaneously
- Various sacrificial anodes were installed to provide the pile, abutment and pier concrete with cathodic protection from the surrounding marine environment
- Due to existing high traffic volumes, complex traffic management issues were successfully overcome through the staging of approach works, construction of temporary sidetracks, and implementation of various traffic restrictions

Extent of Involvement & Role of Proponent (S)

Daracon was the principle contractor for this project. Arenco was engaged to assist with the bridge works.