The project involved the strengthening of the existing 340m long, 7 span Tainui Bridge over the Waikato River at Huntly, to enable loads up to 370 tonne to be transported for the Huntly Power Station Upgrade.

**Work Scope**

- Construct 4 No. - 900mm diameter piles up to 23m long at the abutments.
- Construct 16 No. - 1200mm diameter piles at the piers up to 48m long with 5m long rock sockets. 8 piles were constructed from a temporary causeway and 8 piles working from barges.
- Construct 8 pile cap extensions with soffit 2.5m below river level each containing 48 cubic metres of reinforced concrete.
- Construct 8 pier extensions each 7.6m high containing 90 cubic metres of reinforced concrete.
- Provide under deck strengthening requiring 230 tonne to steel plate, 726m of butt welding and 4839m of fillet welds.
- Fabricate and install 14 fabricated steel arches each 43m long weighing 62 tonne.
- Stress arches via new hangers with loads ranging from 20 tonne to 30 tonne using a controlled stressing sequence.
- Demolish 14 existing concrete filled steel arches following stressing of new arches.
- Upgrade existing services including telecom, natural gas, power, sewer and water.