CSIRO Princes Wharf #4 was constructed in 1963. The wharf comprises of prestressed concrete piles, cast in-situ pile caps, prestressed concrete beams and deck planks with a cast in-situ concrete deck on the top. Investigations detected some concrete corrosion and spalling and a corroded fender system on the berthing face of the wharf.

The Project

VEC and joint venture partner SAVCOR undertook the project which included:
• Removal of redundant cathodic protection;
• Installation of Hybrid Cathodic Protection System;
• Galvanic; and
• Impressed Current Cathodic Protection
• Removal of redundant bollards;
• Hydro demolition of defective concrete wharf elements;
• Concrete repairs to existing wharf structure;
• Refurbishment of existing bollards;
• Installation of Trellyborg Fender System; and
• Installation of RV Investigator Shore Power System.

The repairs were performed under tight timeframes to receive the new Antarctic ship, the RV Investigator.

Despite several changes to the works due to the uncertain nature of the existing wharf conditions, VEC were able to manage the program, in collaboration with the client and affected stakeholders and meet all program and budget requirements.

The key to this outcome was the management provided by VEC’s planning systems and the implementation by entire team.