

DEPARTMENT OF MARINE & HARBORS  
PORT ADELAIDE

8

RAPID BAY JETTY

STRUCTURAL STATUS 1987



CIVIL ENGINEERING DIVISION

Report by Lee Warneke - Snr. Tech. Offi

FUTURE

Approved future work at Rapid Bay includes:-

1. Grit blasting and painting any steel work that requires it.

Future Works subject to approval.

The findings of this investigation have revealed inadequacy in the substrate steel work along the approach jetty. It is recommended that during the redecking program all exposed steel work should be inspected and if suspect replaced. As a matter of course all remaining steel work should be grit blasted and coated according to DMH specifications as each bay is exposed for redecking. This work should be subject to separate estimating and approval.

Also as an experiment a girder that has been replaced should be returned to the DMH Dockyard Port Adelaide and loaded under test conditions to verify the design inadequacy.

CONCLUSION

1. The substrate steel work of Rapid Bay approach jetty is in a state of advanced decay.
2. Remedial work in the form of grit blasting and painting should be done in conjunction with the deck replacement.
3. Members assessed as inadequate should be replaced.
4. Design inadequacy should be verified by test loading a corroded girder removed from the jetty.
5. Redecking of the dolphins and walkways is required.
6. Non slip surfacing required on T-Head - for mooring purposes.