Abridged version

KAWASAKI STEEL TECHNICAL REPORT

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Special Issue on 'H-Shapes with

Fixed Outer Dimension' and 'Steel Pipe'

Corrosion of Steel Structured Wharves and Revetments and Their Maintenance

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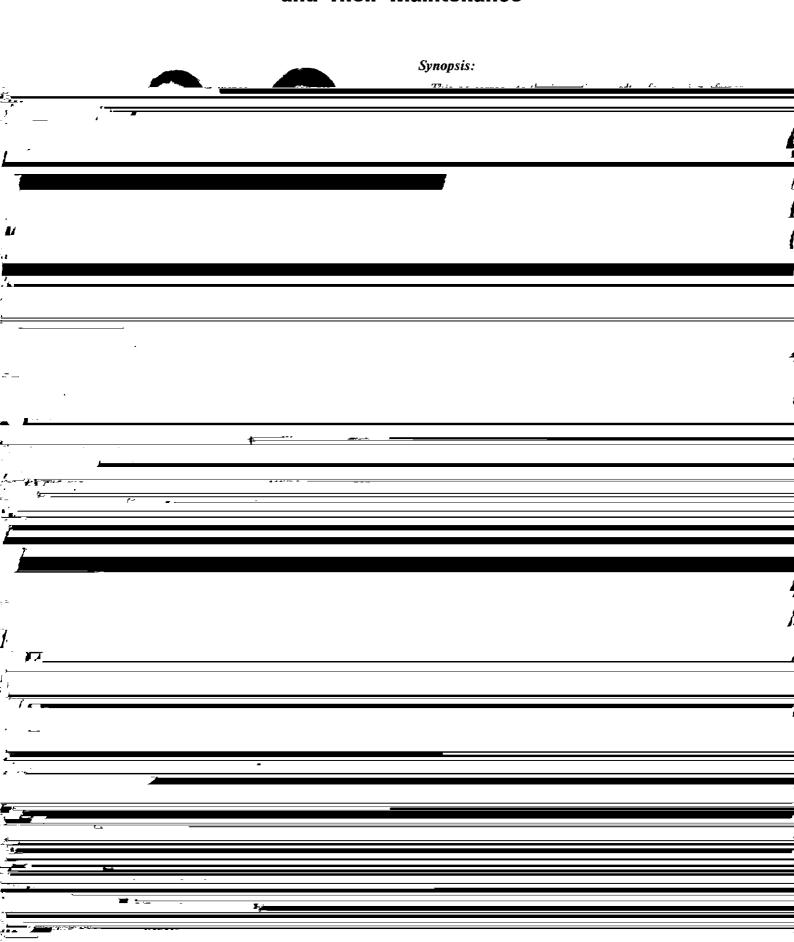
Synopsis:

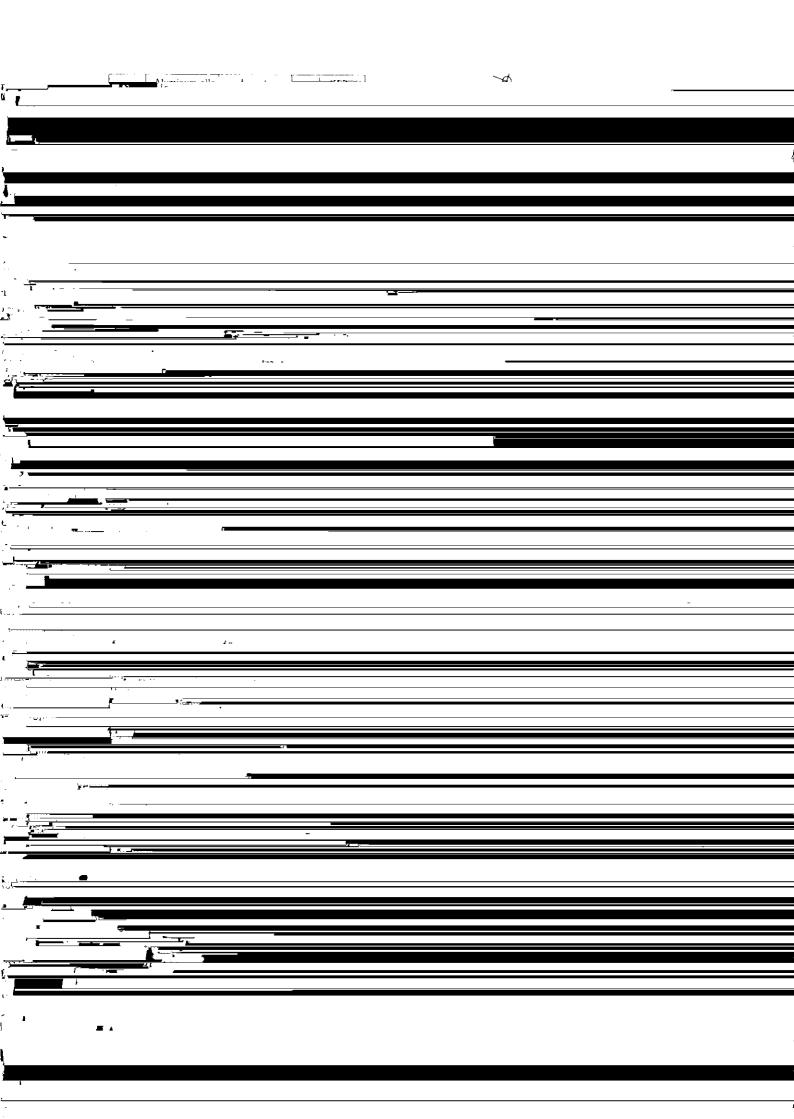
This paper reports the inspection results of corrosion of port and harbor structures at Chiba Works and maintenance techniques for them. Differences in the corrosion rate of steel material between with and without corrosion protection was investigated. Electrode potential monitoring and visual inspection of aluminum alloy anode were proved to be effective in quality control of cathodic protection. The life of anode is expected to be extended by coating the structure at the tidal zone. For localized holes at steel pipe piles and steel sheet piles, some repairing methods have been developed and carried out. Finally the newly developed KPP (Kawasaki polyethylene or urethane resin coated pipe) pile is introduced as heavy-duty protective treatment.

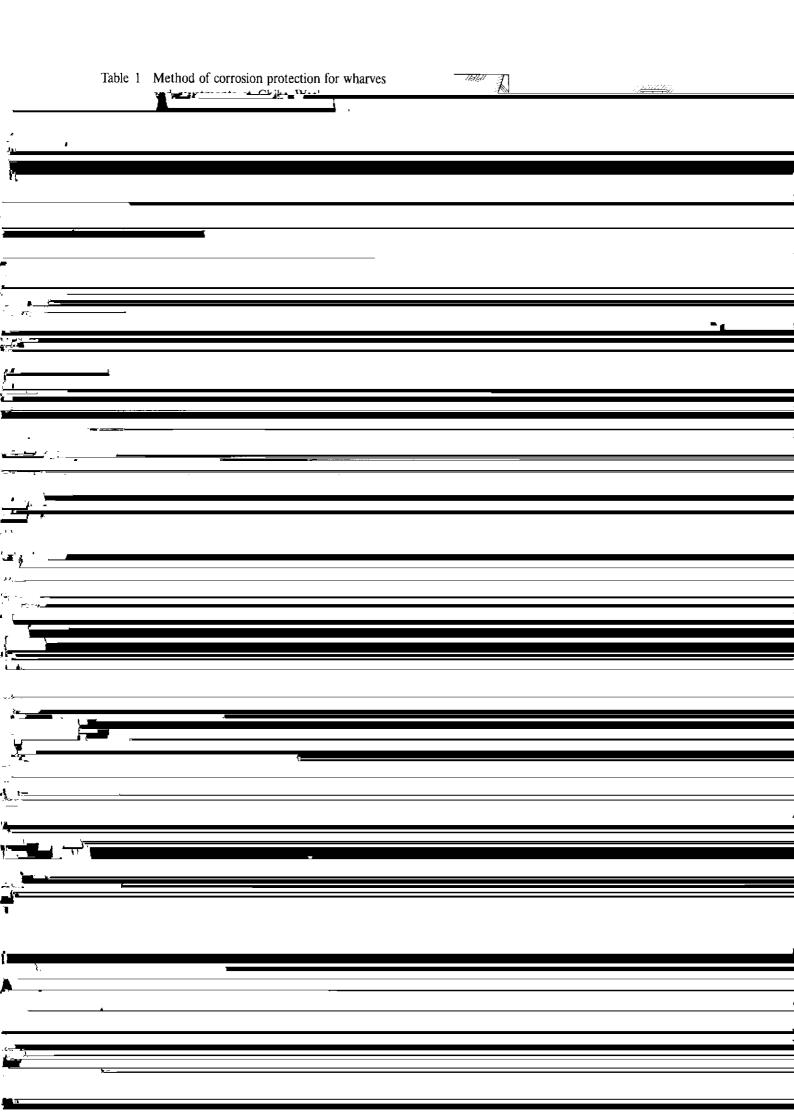
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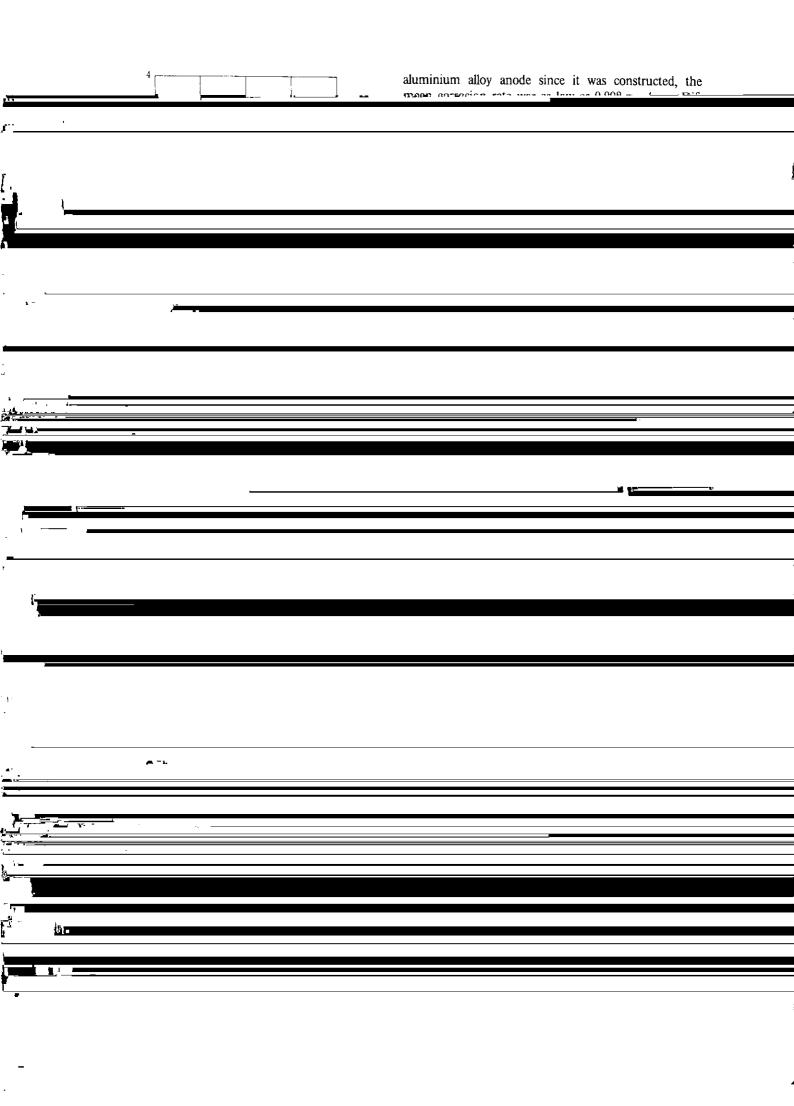
The body can be viewed from the next page.

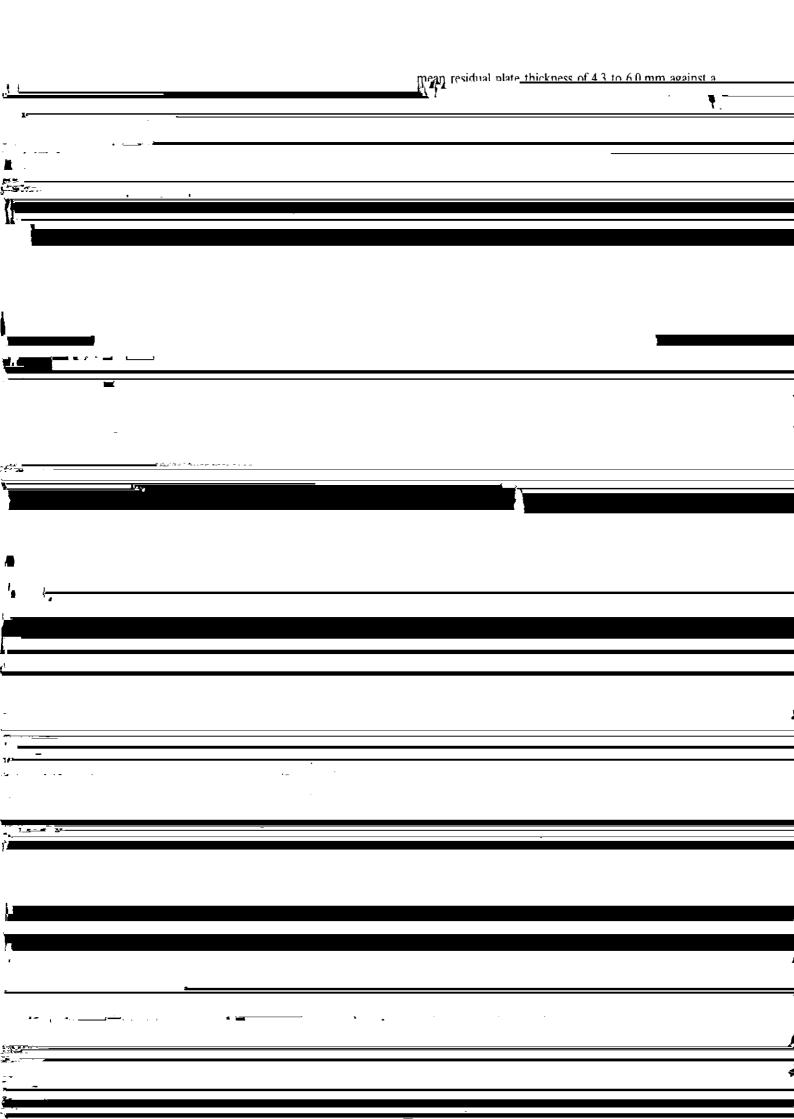
Corrosion of Steel Structured Wharves and Revetments and Their Maintenance*





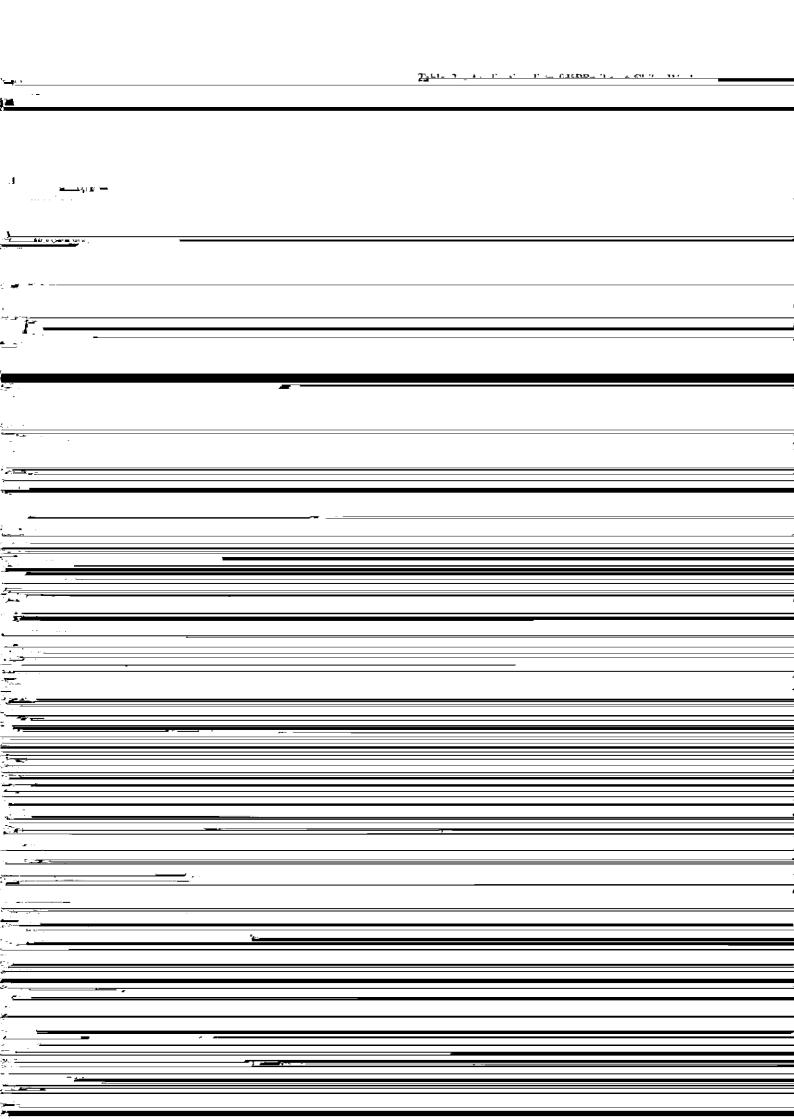






	decreased and longer life of the aluminium alloy anode	reinforcing steel plates and external pipes, as to the cor-
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Steel pipe pile $(\phi 508.0 \text{ mm } t = 9.0 \text{ mm})$ Specimen P_{max} (tf) P1



pipe piles, interlocked steel pipe piles and steel sheet Through periodical corrosion investigations and corropiles at the Main Plant, the corrosion rate being sion-protection effect surveys, it is important to conabout_03 mm/vear or more