

Curragh Mine Thickener Tank

Australia



Country: Australia

Timescale: January—April 2011

Structure: Saline Water Containment Tank

CPT Treatment used:

DuoGuard™ Hybrid Anode™ System



An 85m diameter x 3m high mine thickener tank in Eastern Australia was suffering from severe chloride attack due to periodic exposure to salt water.

Problem

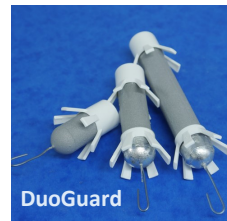
The Launder wall of the 30 year old Tank was extensively delaminated and on further inspection isolated areas of the lower wall and launder soffit showed deterioration.

Solution Developed

A DuoGuard™ Hybrid Anode™ System was applied to provide a long term solution to the corrosion problem. Using a 3 man crew, approximately 375 DuoGuard 350 Anodes were installed per day (13000 in total) following Hydro-demolition and sprayed concrete reinstatement.

Benefits

The application of a DuoGuard™ Hybrid Anode™ System to the thickener tank provides a long term low maintenance solution to the corrosion problems. The addition of MN15 reference electrodes allows the anode systems to be monitored to observe any changes to the condition of the steel reinforcement.



CPT Products Used:

- ◆ DuoGuard™ 175 and 350
- ◆ DuoCrete SD Mortar
- ◆ MN15 Ref. electrodes

Amount of Anodes:

13000

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