

BREAKWATER AND REVETMENT MONITORING PLAN – WHEATSTONE PROJECT

Provision of Specialist Support to EPCM Team

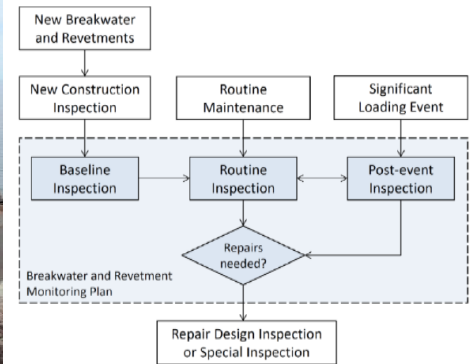
Cape Town
A2001

Dampier Ports Authority
Port of Ashburton
Onslow
Australia
2014

PRDW was appointed by Dampier Ports Authority (DPA) to prepare a monitoring plan for the breakwater and revetments of the Materials Offloading Facility (MOF). This comprised specific and repeatable actions that will allow DPA to assess the performance and the need for maintenance or repair of the structures built by Chevron Australia Pty Ltd.



Breakwater Under Construction



Flow Diagram of Inspection Activities

The structures in the monitoring plan included the breakwater that protects the MOF, the Eastern and Western revetments and slopes 20 to 25 around the site that protect facilities from wave action and flood inundation.

The structures included in the monitoring plan were as follows:

- MOF Breakwater armoured with 3 m³ Accropode II™ units
- Breakwater capping, including access road, kerbs, utility corridor and lighting
- Revetments either side of the MOF Wharf
- Eastern revetment armoured with Accropode II™
- Western revetment armoured with rock
- Inland revetment slopes 20 through 25

The monitoring plan included:

- Monitoring plan framework
- Schedule and cost estimates of monitoring activities
- Procedures for:
 - Horizontal photographic survey of armour units
 - Topographic surveys and visual inspection
 - Aerial photography of armour units with unmanned aerial vehicles (UAV)
 - Multibeam toe stability surveys



Location of the Materials Offloading Facility (MOF)



Accropode II™ Placed on the Main Breakwater