



EarthTEC chosen to construct new spillway

RIVER & MARINE WORKS

REF No. E/EC-E1067

Client: BHP Billiton Mitsubishi Alliance
Location: Goonyella, North Queensland
Project: Goonyella Mine Spillway Remediation

Large scale remediation and flood repairs have become a regular necessity in the wake of cyclones and heavy rainfalls over recent times.

BMA's environmental engineers needed to respond quickly when a section of an existing spillway at Goonyella Mine was damaged by flood waters.

The repair works were subject to an Environmental Protection Authority (EPA) directive which had the power to halt operations at the mine, which operates 24 hours a day, all year round. Any delay would cost millions.

BMA were aware of similar works completed by EarthTEC using Maccaferri gabion products at Hail Creek Mine, and arranged for a site inspection to review the required remediation works. The initial damage was temporarily repaired by dumping large rip-rap into the scour hole. EarthTEC was then contracted to

complete a package of civil engineering, earthmoving and landscaping works, including the installation of a 120m wide Maccaferri gabion and reno mattress cascade revetment.

As with most mine sites, there was a

In recognition of EarthTEC's achievements, a further section of civil works was awarded to construct a new spillway and associated earthworks at a nearby sedimentation dam. When exposed to flooding, the new structure

As with most mine sites, there was a heavy emphasis on safety systems.

heavy emphasis on safety systems. Working conditions were extreme and particular care was needed to avoid heat stress related injury, as temperatures at site regularly exceeded 40°C. A comprehensive series of inductions and medicals were completed to satisfy the client's OHS requirements.

Once on site, safety was maintained through a detailed safety plan, incorporating work methods, job safety analyses, regular tool box meetings and Take 5 task assessments.

performed well, despite being only partially complete at the time.

Contact our Sydney head office to meet with an EarthTEC representative in your state to discuss your project:

E info@earthtec.com.au
T +61 2 9420 8610
F +61 2 9420 8650

