

# Millbrook Dam Safety Upgrade

<b>Client</b>	SA Water
<b>Location</b>	Millbrook
<b>Procurement</b>	Invited Tender from Dams Panel
<b>Engagement</b>	AS2124 Construct Only
<b>Contract Value</b>	\$6 million
<b>Duration</b>	March 2006 to March 2007
<b>Project Description</b>	

Classified as an Extreme Hazard dam required increasing the flood capacity, enhancing the embankment stability, improving resistance to piping in addition to safeguarding the loss of storage due to possible damage following an earthquake:

- Rock excavation of the enhanced capacity spillway by drilling and blasting to 70m width and lined with 1,000m<sup>3</sup> of concrete, including the installation of a new OG crest.
- Embankment strengthening including the removal of trees, excavation, haulage and placement bulk fill material and 35,000 tonnes of rock fill for stabilisation of the toe.
- Detailed trimming of the downstream embankment face and placement of multiple filter layers.
- Improvements to the tunnel access pit, tunnel and the outlet tower platforms and pipework.
- Instrumentation installation and monitoring for the dam construction and future operation.



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