

## Project Profile

# Queen Elizabeth Hospital Demolition



<b>Client</b>	DTEI / Hansen Yuncken
<b>Location</b>	Adelaide, South Australia
<b>Duration</b>	September 2011
<b>Contract</b>	QEH Demolition Works
<b>Cost</b>	\$3.2 Million

## Project Overview

This challenging project involved hospital and boiler house demolition works for the Queen Elizabeth Hospital.

McMahon Services were contracted to complete the \$3.2 million of demolition works for Adelaide's Queen Elizabeth Hospital. The final phase of this challenging project was the demolition of the boiler house and the associated 40 metre high chimney stack. The concrete stack was internally lined with masonry fire brick and was situated in a highly confined location, immediately adjacent to an operating research facility and the adjoining boundary residential properties.

Demonstrating innovation at its best, the team tackled the tallest mechanical demolition project ever completed in Australia using the \$3 million Ultra-High Reach Demolition Excavator.

The mammoth excavator deconstructed the colossal chimney working around the circumference of the stack from top to bottom using a fully rotating cutter-crusher attachment fitted to the excavator. The attachment can process both concrete and steel reinforcement in the one operation. High volume water spray nozzles located on the end of the excavator boom also provided full dust suppression.

### McMahon Services

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The successful demolition of the challenging structure in such a sensitive location was a testament to the capabilities of the demolition team. An eight week risk assessment, planning and engineering review fully established our methodology, and enabled the dedicated team of eight to complete the deconstruction within a 10 hour period.

The project proved that the Excavator is ideal for confined suburban projects, as there is less noise and significantly less dust emissions. The machine is not only faster, but also much safer than other demolition methods.