

Building and Construction
SPILLWAY CONTROL SYSTEM



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The 33-year old Little Para Dam provides water for the city of Adelaide, Australia. The dam required an upgrade in order to increase its capacity, and to comply with modern dam safety standards. Engineers from Hydroplus Australia created a new design which met demands for carbon neutrality and a lifespan of 100 years with virtually no maintenance. The design utilises a 6 m high stainless steel composite wall section fixed to a 0.5 m thick pre-cast concrete base. The solution reduced construction time on site and overall cost when compared to a conventional dam constructed from reinforced concrete.



Location | ADELAIDE, AUSTRALIA

Environment | OUTDOOR

Product | DUPLEX STAINLESS STEEL: LDX 2101®

Fabrication process | LASER CUTTING, MIG WELDING

Grade/surface | COLD ROLLED COIL/2E FINISH, PICKLED, CUT EDGE

Material thickness/diameter | MAINLY 4 MM COIL

Weight | APPROXIMATELY 80 TONNES

Competing material | REINFORCED CONCRETE

Date of Completion | MARCH 2010

Manufacturer | LWA ENGINEERING /HYDROPLUS AUSTRALIA/SANDVIK MATERIALS TECHNOLOGY

Material Supplier | OUTOKUMPU

Source of Information | WD HAKIN (HYDROPLUS AUSTRALIA)

Remarks