

Samson Brook Dam Remedial Work



Value \$13.3M



Works completed as Watpac Civil & Mining

Director's involvement – Tim Malseed – Operations Manager/Pete Hancock – Project Manager

FACTS

Client	Water Corporation of WA	Division	Civil and Mining
Contact	Available on Request	Market	Dams and Storage Basins
Location	Waroona, WA	Commenced	July 2012
		Completion	February 2014

PROJECT OVERVIEW

Repair, restoration and rehabilitation works for the Water Corporation of Western Australia -. Samson Brook Dam is a 31 metre high zoned earthfill/rockfill embankment located on Samson Brook approximately 110km south-east of Perth. Constructed between 1938 and 1941, the structure impounds a storage of 8 Gialitres (GL) and is used as a source of irrigation and public water supplies. Watpac's scope of works include the development and operation of the quarry, repair and maintenance of the coffer dam, operate and maintain the diversion works, excavation, and site restoration and rehabilitation.

SPECIFICATIONS

- 9,500m³ of conditioned, placed and compacted Zone 1A clay
- 20,500m³ of Zones 2A, 2B and 3A filter layers placed and compacted
- 37,000m³ of Zone 3B rockfill placed
- 35,000m³ of drill and blasted material
- 35m of MSCL pipe placed and welded installed
- Zinc Silicate primed acrylic protective coating on MSCL pipe
- 150m³ of S32 concrete for pipe encasement and valve pit
- 2500m² of pavement to Main Roads WA specifications
- Bidim geotextile installation
- Stormwater drainage installation