

# Tropicana Tailings Storage Facility



Value \$24M



Works completed as Watpac Civil & Mining  
**Director's involvement – Tim Malseed – Operations Manager**

## FACTS

<b>Client</b>	AngloGold Ashanti	<b>Division</b>	Civil and Mining
<b>Contact</b>	Massoud Massoudi	<b>Commenced</b>	November 2012
<b>Contract</b>	Schedule of Rates	<b>Completion</b>	July 2013
<b>Location</b>	400km ENE of Kalgoorlie, WA		

## PROJECT OVERVIEW

The Tropicana Gold Project site is located approximately 450km east north east of Kalgoorlie WA at an altitude of approximately 400m above sea level.

The works include the construction of Stage 1 of the Tailings Storage Facility (TSF). The TSF has a circumference of approximately 5km. The work involved lining the embankment, placed by others, with clay and construction of the underdrainage system, decant liner and diversion channel.

## SPECIFICATIONS

### EMBANKMENT

- Excavate and backfill cut-off trench with Zone A clay material - 61,200m<sup>3</sup>
- Construct 6m wide perimeter embankment with Zone A clay material - 178,000m<sup>3</sup>
- Construct Zone E protection layer 300mm thick to upstream face - 16,000m<sup>3</sup>

### UNDERDRAINAGE SYSTEM

- Remove 200 thick insitu sand material from TSF floor - 316,000m<sup>3</sup>
- Proof roll surface - 1,790,000m<sup>2</sup>
- Construct 200mm thick Zone A low permeability liner to the TSF floor - 347,000m<sup>3</sup>
- Cover with insitu sand material as a protection layer - 316,000m<sup>3</sup>

- Supply and install 1.5mm thick HDPE liner - 222,000m<sup>2</sup>
- Supply and install 160mm collector drain - 14,600m
- Supply and install 100mm finger drains - 38,900m
- Supply and install geotextile to drains - 199,000m<sup>2</sup>
- Install medium to drains - 15,000m<sup>3</sup>

### DIVERSION CHANNEL

- Cut to fill 26,500m<sup>3</sup>