

Dam: Copperfield

Country Australia

River Copperfield

19°02'05.2"S 144°07'13.52"E

-19.034779 144.120422

Owner/Client Kidston Gold Mines Ltd.

Designer/Engineer Gutteridge Haskins & Davey

Contractor Hornibrook

Purpose (code) W

Site start 01.12.1983

RCC start 16.05.1984

RCC completion 10.09.1984

Site completion 19.09.1984

Height (m) 40

Length (m) 340

Volume of RCC ($m^3 \times 10^3$) 140

Total volume ($m^3 \times 10^3$) 156

Reservoir capacity ($m^3 \times 10^6$) 20

Upstream slope V

Forming of upstream face (code) (3)

Downstream slope V
0.90

Forming of downstream face (code) (3)
(17)

Spillway slope 0.80

Forming of spillway face (code) (1)

Depth of layers (mm) 300

Depth of lifts (mm) 300

Cement content (kg/m^3) 80

Pozzolan content (kg/m^3) 30

Code for pozzolan (F)

RCCDAM Unique Serial No. RCCDAM0017

Under Construction



RCCDAM0017UC

Completed Dam



RCCDAM0017CD

Google Earth



RCCDAM0017GE

Guide to Abbreviations

Purpose

- E Environmental
- F Flood control
- G Groundwater recharge
- H Flood control
- I Irrigation
- N Navigation
- P Pollution control
- R Recreation
- W Water supply

Facing method

- (1) Traditional concrete against formwork
- (2) Traditional concrete against formwork with external geomembrane
- (3) RCC against formwork
- (4) RCC against formwork with external geomembrane
- (5) Traditional concrete against precast concrete panels
- (6) Traditional concrete against precast concrete panels with geomembrane
- (7) RCC against precast concrete panels
- (8) RCC against precast concrete panels with geomembrane
- (9) RCC against precast concrete panels with hot poured membrane
- (10) RCC against precast concrete blocks
- (11) Reinforced conventional concrete cast before RCC placement
- (12) Reinforced conventional concrete cast after RCC placement
- (13) Reinforced concrete cast against precast units or slip-formed facing elements
- (14) Slip-formed/extruded facing elements
- (15) RCC supported by fill shoulders
- (16) Mechanically compacted unformed face of RCC
- (17) Unformed face of RCC
 - ' GEVR/GE-RCC
 - * Stepped face

Pozzolans

- (-) No Pozzolan Used
- (C) High-lime flyash (ASTM Class C)
- (F) Low-lime flyash (ASTM Class F)
- (M) Milled sand
- (N) Natural pozzolan (ASTM Class N)
- (R) ROLAC (mixture of flyash and slag with or without limestone fines)
- (S) Ground-granulated blast-furnace slag
- (L) Mixture of GGBFS and limestone fines