

Dam: Loyalty Road flood retarding basin

Country Australia

River Darling Mills Creek

33°46'32.62"S 151°00'18.84"E

-33.775726 151.005234

Owner/Client Upper Parramatta River Catchment Trust

Designer/Engineer New South Wales Public Works Department

Contractor White Construction (NSW) Ltd.

Purpose (code) F

Site start 23.06.1995

RCC start 20.12.1995

RCC completion 12.04.1996

Site completion 28.08.1996

Height (m) 30

Length (m) 111

Volume of RCC ($m^3 \times 10^3$) 20

Total volume ($m^3 \times 10^3$) 22

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

Upstream slope V

Forming of upstream face (code) (7)

Downstream slope 0.80

Forming of downstream face (code) (7)

Spillway slope 0.80

Forming of spillway face (code) (7)

Depth of layers (mm) 300

Depth of lifts (mm) 300

Cement content (kg/m^3) 80

Pozzolan content (kg/m^3) 0

Code for pozzolan (S)

RCCDAM Unique Serial No. RCCDAM0169

Under Construction



RCCDAM0169UC

Completed Dam



RCCDAM0169CD

Google Earth



RCCDAM0169GE

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