Dam:	Thornlea	Country	South Africa
River	Mlazi	29°48'6.61"S 30°28'38.47"E	-29.801836 30.477352
Owner/Client	Umlaas Irrigation Board		
Designer/Engineer	Bradford, Conning and Partners		
Contractor	Cyclone Construction		

Purpose (code)	I
Site start	01.06.1990
RCC start	01.10.1990
RCC completion	31.12.1990
Site completion	28.02.1991
Height (m)	17
Length (m)	135
Volume of RCC (m^3x10^3)	16
Total volume (m^3x10^3)	17
Reservoir capacity (m^3x10^6)	3
Upstream slope	V
Forming of upstream face (code)	(1)
Downstream slope	0.90
Forming of downstream face (code)	(3) *
Spillway slope	0.90
Forming of spillway face (code)	(1)
Depth of layers (mm)	170
Depth of lifts (mm)	170
Cement content (kg/m^3)	38
Pozzolan content (kg/m^3)	87
Code for pozzolan	(S)
RCCDAM Unique Serial No.	RCCDAM0077

Completed Dam



RCCDAM0077CD

Google Earth



RCCDAM0077GE

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