

# VICTORIA WEST DAM

COORDINATES (degrees, minutes, seconds)

LATITUDE	LONGITUDE
31°24'00" E	23°06'00" S

## LOCATION

Victoria West Dam is located near the town of Victoria West, in quaternary catchment D61E in the Lower Orange Water Management Area in South Africa.

## DESCRIPTION

Victoria West Dam is a concrete arch dam with a full supply level of 1 700 m, and a dead storage level and bottom of reservoir at 1 671 m.

## PURPOSE

Victoria West Dam supplies a waste water treatment works (domestic water supply).

## PHYSICAL INFORMATION

Dam name	River	Quaternary catchment	FSC* (million m <sup>3</sup> )	SA (km <sup>2</sup> )	Owner	DWA code	Wall height (m)	Wall length (m)
Victoria West	Dorpspruit	D61E	3.66	2.12	DWA	D6R001	25	133

\* Live full supply capacity (SANCOLD)



Victoria West Dam (source: Hendri/www.panoramio.com)



## VICTORIA WEST DAM

Year of completion	Demands/abstractions (million m <sup>3</sup> /a)			1:50 yield (million m <sup>3</sup> /a)	Maximum spillway capacity (m <sup>3</sup> /s)
	Domestic	Irrigation	Other		
1923	Unknown	Unknown	Unknown	Unknown	103

## AREA-CAPACITY RELATIONSHIP

Elevation (m)	Storage (million m <sup>3</sup> )	Surface area (km <sup>2</sup> )
1 705	4.488	2.454
1 700	3.740	2.200
1 696	2.992	1.924
1 690	2.244	1.619
1 680	1.496	1.270
1 675	0.748	0.838
1 671	0.000	0.000

## OPERATING RULE

The Victoria West and Smartt Syndicate Dams are operated as a sub-system, known as the Ongers sub-system. The operating rule for this sub-system allows the dams to supply the demands imposed upon them until the dams reach their respective minimum operating levels.

