

VICTORIA WEST DAM

COORDINATES (degrees, minutes, seconds)

LATITUDE	LONGITUDE
31° 24' 08" E	23° 05' 58" 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 the dead storage level and bottom of the reservoir are at 1,671 m.

PURPOSE

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

PHYSICAL INFORMATION

Dam name	River	Quaternary catchment	FSC* (million m ³)	FSA (km ²)	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, 2009)



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



VICTORIA WEST DAM

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

AREA-CAPACITY RELATIONSHIP

Elevation (m)	Storage (million m ³)	Surface area (km ²)
1,705	4.49	2.45
1,700	3.74	2.20
1,696	2.99	1.92
1,690	2.24	1.62
1,680	1.50	1.27
1,675	0.75	0.84
1,671	0.00	0.00

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.

