



WENTZEL DAM

COORDINATES (degrees, minutes, seconds)

LATITUDE	LONGITUDE
27° 10' 24" S	25° 20' 10" E

LOCATION

Wentzel Dam is located in quaternary catchment C31E in the Lower Vaal Water Management Area near Schweizer-Reneke in South Africa.

DESCRIPTION

Wentzel Dam is an earthfill dam.

PURPOSE

Wentzel Dam is used for domestic water supply for the town of Schweizer-Reneke. It has a full supply level of 1,297.7 m, and the dead storage level and bottom of the reservoir are at 1,291.3 m.

PHYSICAL INFORMATION

Dam name	River	Quaternary catchment	FSC* (million m ³)	FSA (km ²)	Owner	DWA code	Wall height (m)	Wall length (m)
Wentzel	Harts	C31E	6.56	2.99	DWA	Unknown	12	158

* Live full supply capacity (SANCOLD, 2009)



WENTZEL DAM

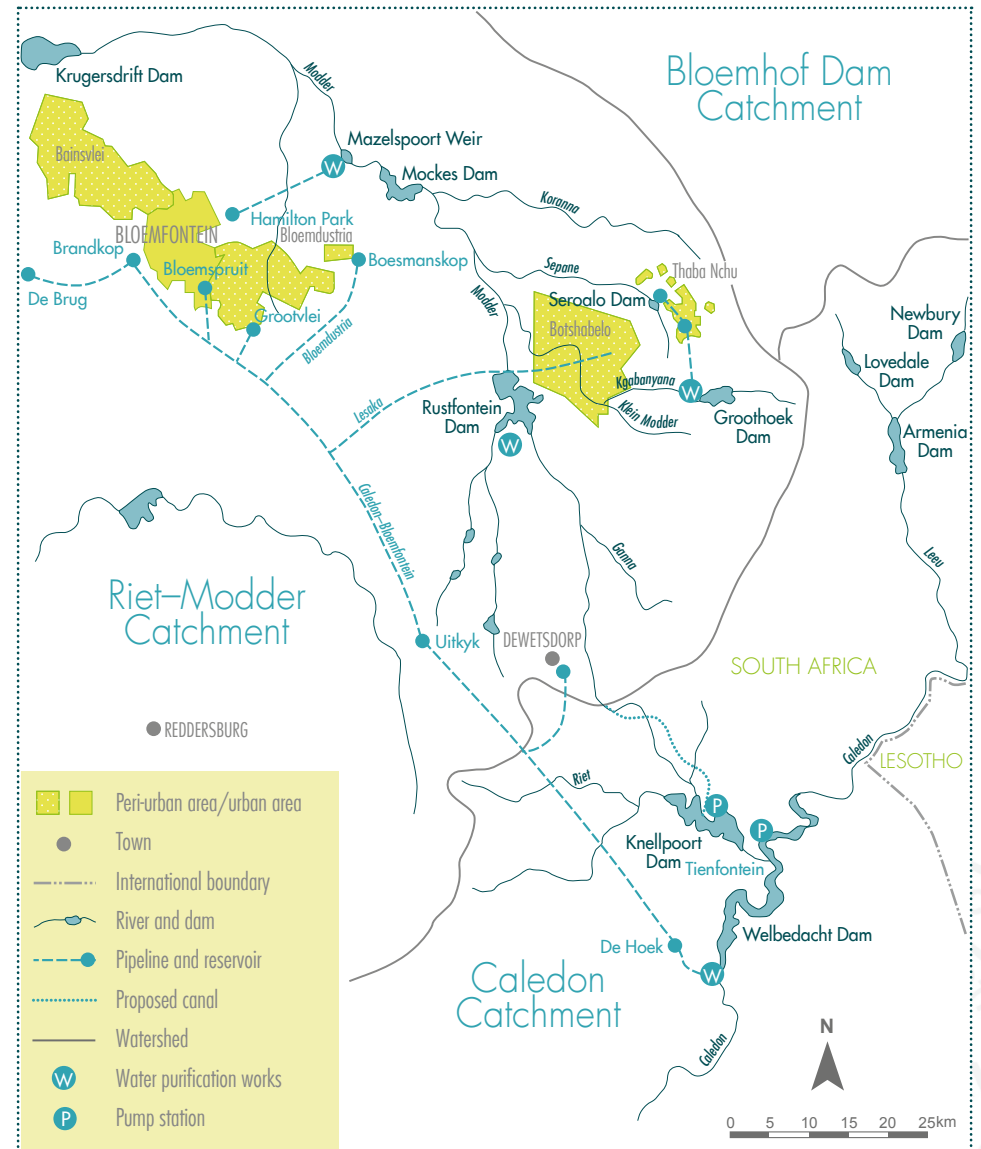
Year of completion	Demands/abstractions (million m ³ /a)			1:50 yield (million m ³ /a)	Maximum spillway capacity (m ³ /s)
	Domestic	Irrigation	Other		
1934	1.02	Unknown	Unknown	Unknown	895

AREA-CAPACITY RELATIONSHIP

Elevation (m)	Storage (million m ³)	Surface area (km ²)
1,297.9	7.10	3.12
1,297.7	6.58	2.99
1,297.4	5.62	2.75
1,297.1	4.84	2.53
1,296.5	3.46	2.08
1,296.2	2.87	1.86
1,295.7	2.04	1.51
1,295.2	1.38	1.18
1,294.5	0.69	0.81
1,291.3	0.00	0.00

OPERATING RULE

The dam is operated down to the dead storage level to supply the town.



Caledon-Bloemfontein Government Water Scheme (adapted from ORASECOM, 2007a)