

COORDINATES (degrees, minutes, seconds)

LATITUDE	LONGITUDE		
25°51′30″ S	25°30′01″ E		

## LOCATION

Setumo Dam is located on the Molopo River near Mmabatho in North West Province, South Africa, in quaternary catchment D41A.

# DESCRIPTION

Setumo Dam is an earth dam, with a full supply level of 1 226.3 m, and a dead storage level of 1 213.4 m. The bottom of reservoir is at 1 213.0 m.

## **PURPOSE**

Setumo Dam is used to irrigate oil-bearing trees to produce bio-diesel at the dam.

#### PHYSICAL INFORMATION

Dam name	River	Quaternary catchment	FSC* (million m³)	SA (km²)	Owner	DWA code	Wall height (m)	Wall length (m)
Setumo Dam	Molopo	D41A	19.6	4.4	DWA	Unknown	17	1 600

<sup>\*</sup> Live full supply capacity (ORASECOM)





	Year of	Demands	/abstractions (millio	1:50 yield (million	Maximum spillway	
	completion	Domestic	Irrigation	Other	m³/a)	Maximum spillway capacity (m³/s)
	1995	Unknown	Unknown	Unknown	Unknown	Unknown

# AREA-CAPACITY RELATIONSHIP

Elevation (m)	Storage (million m³)	Surface area (km²)
1 226.3	20.74	4.47
1 226.0	19.56	4.37
1 225.0	15.48	3.80
1 223.0	9.39	2.59
1 221.0	5.16	1.65
1 220.0	3.51	1.31
1 218.0	1.46	0.74
1 217.0	0.94	0.52
1 215.0	0.23	0.19
1 213.0	0.00	0.00

# OPERATING RULE

The Setumo, Disaneng and Lotlamoreng Dams are operated as a sub-system, known as the Molopo sub-system South Africa. 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.

