

VAA LHARTS STORAGE WEIR

COORDINATES (degrees, minutes, seconds)

| LATITUDE | LONGITUDE |
|---------------|---------------|
| 28° 06' 55" S | 24° 55' 33" E |

LOCATION

Vaalharts Weir is located in quaternary catchment C91B in the Lower Vaal Water Management Area in South Africa.

DESCRIPTION

Vaalharts Weir is a concrete buttress weir. It has a full supply level of 1,190.2 m, and the dead storage level and bottom of the reservoir are at 1,182.9 m.

PURPOSE

Vaalharts Weir provides water for irrigation.

PHYSICAL INFORMATION

| Dam name | River | Quaternary catchment | FSC* (million m ³) | FSA (km ²) | Owner | DWA code | Wall height (m) | Wall length (m) |
|------------------------|-------|----------------------|--------------------------------|------------------------|-------|----------|-----------------|-----------------|
| Vaalharts Storage Weir | Vaal | C91B | 48.70 | 21.20 | DWA | C9R001 | 12 | 765 |

* Live full supply capacity (ORASECOM, 2007a, WRYM datasets and DWA, 1990)



Vaalharts Weir (source: SA Dept of Water Affairs)



VAALHARTS STORAGE WEIR

| 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 | | |
| 1957 | Unknown | 373.30 † | Unknown | Unknown | 14,200 |

† DWA, Directorate of Hydrological Services correspondence, 2012

AREA-CAPACITY RELATIONSHIP

| Elevation (m) | Storage (million m ³) | Surface area (km ²) |
|---------------|-----------------------------------|---------------------------------|
| 1,190.3 | 50.98 | 21.76 |
| 1,190.2 | 48.66 | 21.19 |
| 1,190.0 | 44.75 | 20.06 |
| 1,189.7 | 39.07 | 18.10 |
| 1,189.4 | 33.93 | 16.27 |
| 1,188.8 | 25.27 | 12.96 |
| 1,187.8 | 14.75 | 8.68 |
| 1,187.2 | 10.12 | 7.12 |
| 1,186.4 | 5.18 | 5.15 |
| 1,182.9 | 0.00 | 0.00 |



Vaalharts Storage Weir (© UNOPS/Leonie Marinovich)

