

Shortened forms

AEM	airborne electromagnetic
AGC	Australian Groundwater Consultants
AHD	Australian Height Datum
Ampol	Australian Motorists Petrol Company
ANZECC	Australian and New Zealand Environment and Conservation Council
API	American Petroleum Institute (API is the unit for gamma-ray logs)
bgl	below ground level
BMR	Bureau of Mineral Resources
BOM	Bureau of Meteorology
BP	before present
CSIRO	Commonwealth Scientific and Industrial Research Organisation
DEC	(WA) Department of Environment and Conservation
DoW	(WA) Department of Water
DMP	(WA) Department of Mines and Petroleum
GARAMS	Gingin Arrowsmith Regional Aquifer Modelling System
GDE	Groundwater-dependent ecosystem
GSWA	Geological Survey of Western Australia
ERM	Environmental Resources Management
Ma	million years
MGA	Map Grid of Australia
MODFLOW	modular finite-difference flow model
NPB	northern Perth Basin
NACC	Northern Agricultural Catchments Council
RMS (error)	root-mean-square (error)
PRAMS	Perth Regional Aquifer Modelling System
PWD	Public Works Department
TDS	total dissolved solids
TWS	town water supply
WAPET	West Australian Petroleum Pty Ltd
WAWA	Water Authority of Western Australia
WIR	Water Information Reporting system
WRC	Water and Rivers Commission
WRM	Wetland Research Management

Glossary

abstraction	the withdrawal of water by pumping from an aquifer
AHD	Australian Height Datum; equivalent to Mean Sea Level (MSL) + 0.026 m, and Low Water Mark Fremantle (LWMF) + 0.756 m
alkaline	any of various soluble mineral salts that have a pH greater than 7 and which is found in water and soil
allocation limit	annual volume of water set aside for consumptive use from a water resource
alluvium (alluvial)	detrital material that is transported by streams and rivers and deposited
anion	a negative-charged ion that migrates to an anode (such as in electrolysis)
annual licensed water entitlement	the quantity of water that a person is entitled to take on an annual basis in accordance with the <i>Rights in Water and Irrigation Act 1914</i>
anticline	type of fold that is an arch-like shape and has its oldest sedimentary strata at its core
aquifer	a geological formation or group of formations able to receive, store and transmit significant quantities of water
artesian aquifer (bore)	a confined aquifer under sufficient pressure that the water would rise in a bore above the ground surface
confined aquifer	an aquifer lying between confining strata of low permeability so that the water in the aquifer cannot flow vertically
perched aquifer	an unconfined aquifer separated from an underlying body of groundwater by an unsaturated zone (contains a perched watertable)
unconfined aquifer	an aquifer near the surface with a free watertable or phreatic level at atmospheric pressure
semi-confined aquifer	An aquifer that is underlain by an impermeable stratum and bounded at the top by soil layers of relatively low permeability (hydraulic conductivity), especially in a horizontal sense. These layers form the semi-confining layer (the aquitard) in which a free watertable is found