



An Australian Government Initiative

Groundwater Education Investment Fund Project

Borehole Infrastructure Report

Funding	SuperScience	Project	Flinders University
Borehole Type	Piezometer/monitoring Bore	Location	Kootingal, NSW 2352
Unique Well ID	GW273219-1	Installed By	NSW Office of Water
Completion Date	10.08.2011	Depth Installed [m]	9.7
Drilled By	NSW Office of Water	Depth Drilled [m]	9.7
Monument Type	Round metal swing top	Drilled Diameter/Method	186mm/rotary hammer
Monument Diameter/Width [mm]	170	Screen Depth [m]	6.2-8.2
Top of Monument from GL [m]	1.02	Screen Type	machine slotted PVC
PVC Casing to TOM [mm]	-55	Level of Bentonite [m]	4.0-4.5
Elevation (AHD71)	428.782	Casing Size/Type	50mm PVC Class 18
Easting	317032.2	SWL After Development [m]	6.615
Northing	6563365.86	Development Details	2 hours air lifted



Comments
This borehole is situated within a multiple bore, riverside groundwater investigation site.

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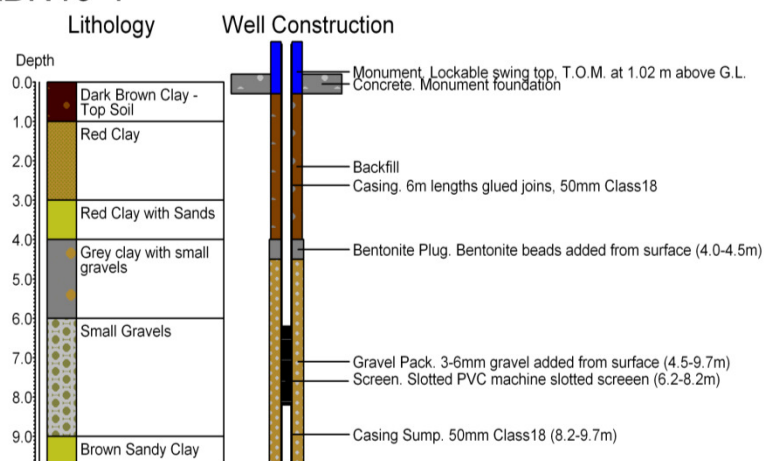
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Stratigraphic Bore Log

Samples of the drill cuttings were obtained during drilling of the borehole and stored for future reference. Standard borehole information is documented in the bore log below.

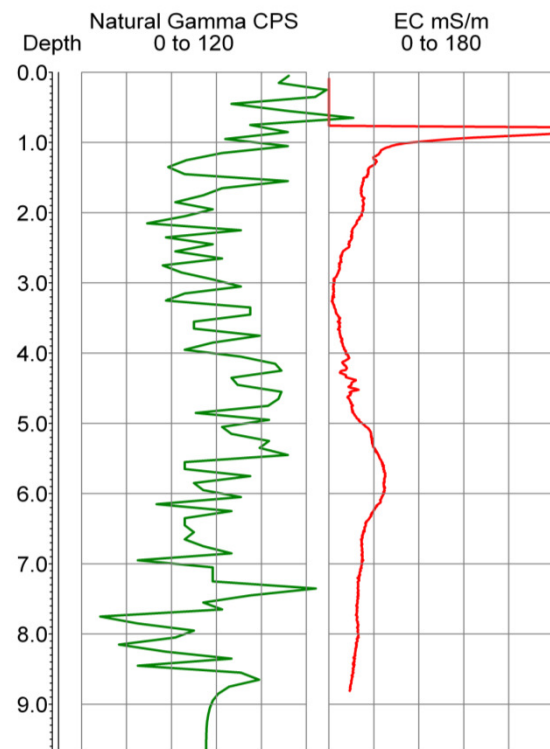
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Geophysics Log

The portable Geovista logging system was used to collect geophysical data from 9.7m to surface. The Electrical Conductivity sonde (EM39) is used to obtain quantitative information on dissolved salts and apparent bulk conductivity information. The natural gamma sonde (NGRS) is predominantly used for qualitative evaluations of stratigraphic characteristics, argillaceous sediments and clay minerals.

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Slug Test

A standard slug test was performed using a real-time water level logger and a solid slug to test the borehole permeability. The results of the slug test are shown graphically below. Full data sets are available from the report author.

Groundwater Quality

Basic chemical analysis of the dissolved solutes and concentration of ions in the borehole was performed. The testing also included hydrogen ion activity (pH) and fluid electrical conductivity (EC). Data from the chemical analysis is shown below.

Date	0/01/1900		Ca ²⁺	0.00	[mg/L]
Time	0:00		K ⁺	0.00	[mg/L]
SWL	0.00	[m]	Mg ²⁺	0.00	[mg/L]
Field pH	0.0		Na ⁺	0.00	[mg/L]
EC	0	[μS/cm]	Si	0.00	[mg/L]
Temp	0.0	[°C]	Cl ⁻	0.00	[mg/L]
Alkalinity	0.00	[meq/L]	NO ₃ ⁻	0.00	[mg/L]
O ₂	0.00	[mg/L]	SO ₄ ²⁻	0.00	[mg/L]