



An Australian Government Initiative

Groundwater Education Investment Fund Project

Borehole Infrastructure Report

Funding	SuperScience	Project	SuperScience
Borehole Type	Piezometer/Monitoring BH	Location	Upper Maule's creek
Unique Well ID	ELMC03 (GW273264)	Installed By	NSW Office of Water
Completion Date	27/06/2012	Depth Installed [m]	34.5
Drilled By	NSW Office of Water	Depth Drilled [m]	34.5
Monument Type	Round Blue Swing Top	Drilled Diameter/Method	Rotary Hammer Tubex
Monument Diameter/Width [mm]	170	Screen Depth [m]	33.5-34.5m,10.5-11.5m
Top of Monument from GL [m]	0.93	Screen Type	Slotted PVC
PVC Casing to TOM [mm]	-55	Level of Bentonite [m]	1-2,19.5-21.5
Elevation (AHD71)	344.959	Casing Size/Type	50mm PVC Class 18
Easting	227618.9413	SWL After Development [m]	13.65
Northing	6627915.285	Development Details	Air lifted 1 hr
		Comments	
Infrastructure Report Prepared By: Mr. Samuel McCulloch 		Checked by: Prof. Ian Acworth 	
Contact Details: Email: s.mcculloch@wrl.unsw.edu.au Ph: 02 807 19871			



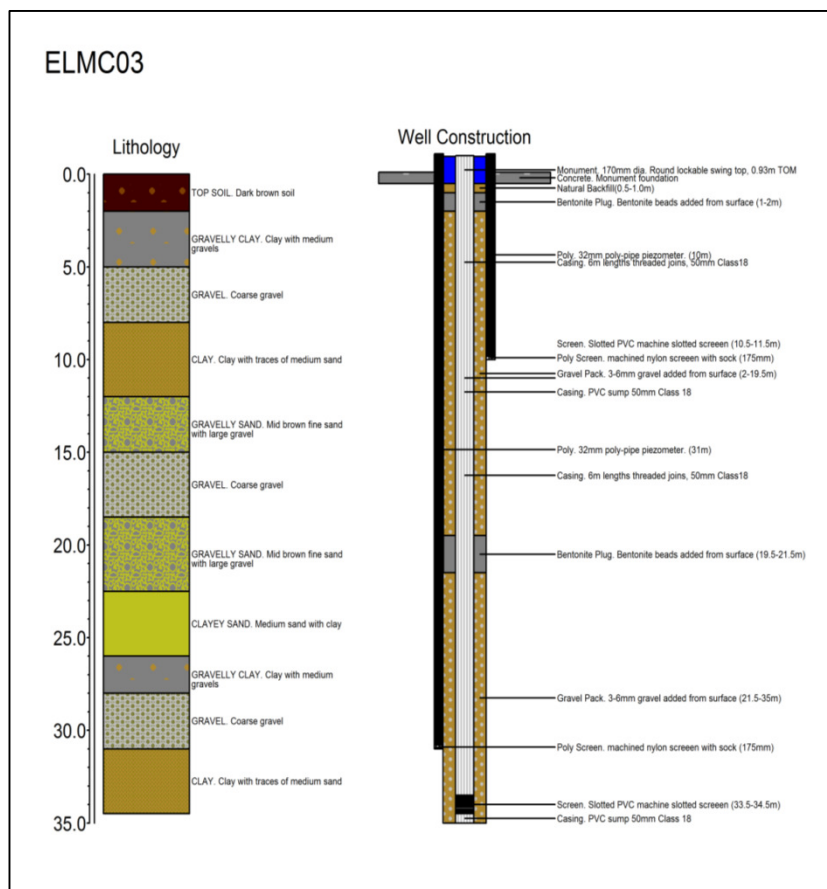
An Australian Government Initiative

Groundwater Education Investment Fund Project

Borehole Infrastructure Report

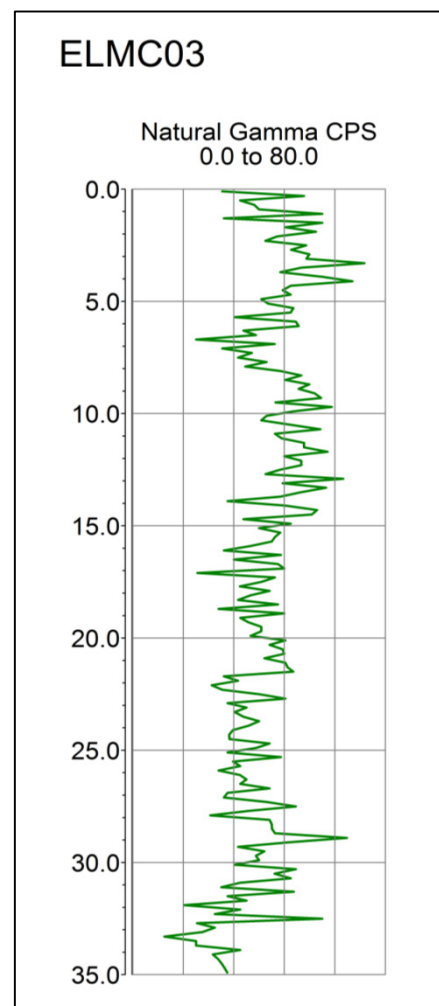
Stratigraphic Bore Log

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.



Geophysics Log

The portable Geovista logging system was used to collect geophysical data from 34m to surface. The natural gamma sonde (NGRS) is predominantly used for qualitative evaluations of stratigraphic characteristics, argillaceous sediments and clay minerals.





Groundwater Education Investment Fund Project

Borehole Infrastructure Report

Slug Test

A standard slug test was performed using a real-time water level logger and differential pressure using nitrogen to test the borehole permeability. The results of the slug test are to be 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 have not yet been performed. The testing will include hydrogen ion activity (pH) and fluid electrical conductivity (EC). Data from the chemical analysis will be 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]