An Australian Government Initiative

Groundwater Education Investment Fund Project
Borehole Infrastructure Report

Funding	Superscience	**Project**	Superscience	**Geophysics:**	
Borehole Type	Piezometer/Monitoring BH	**Location**	Bellevue Farm	HPT	Yes
Unique Well ID	BB15	**Installed By**	WRL UNSW	**NGRS**	No
Completion Date	30/08/11	**Depth Installed**	16.6	**EM39**	No
Drilled By	WRL UNSW	**Depth Drilled**	16.6	**SGAM**	No
Monument Type	Square Metal Swing Top	**Drilled Diameter/Method**	Geoprobe Auger	**VERT**	No
Monument Diameter/Width	125	**Screen Depth**	6.1-7.1/15.1-16.1	**DCAM**	No
Top of Monument from GL	0.68	**Screen Type**	Slotted PVC	**DLL3**	No
PVC Casing to TOM	± 5.0	**Level of Bentonite**	7.7-7.9	**HPFM**	No
Elevation (AHD71)	259.773	**Casing Size/Type**	50mm PVC Class 18	**TCME**	No
Easting	6622556.341	**SWL After Development**	8.42	**CALX**	No
Northing	208392.197	**Development Details**	Air lifted for 2 hours	**WLL Data**	No

Comments:
This bore has been constructed as a nested piezometer with screens located at shallow (5-7m average) and deep (15-17m average) depths. It is part of a transect composed by 15 bores between the Namoi River and the pump station at Bellevue Farm.

Infreastructure Report Prepared By:	Contact Details:	Checked By:
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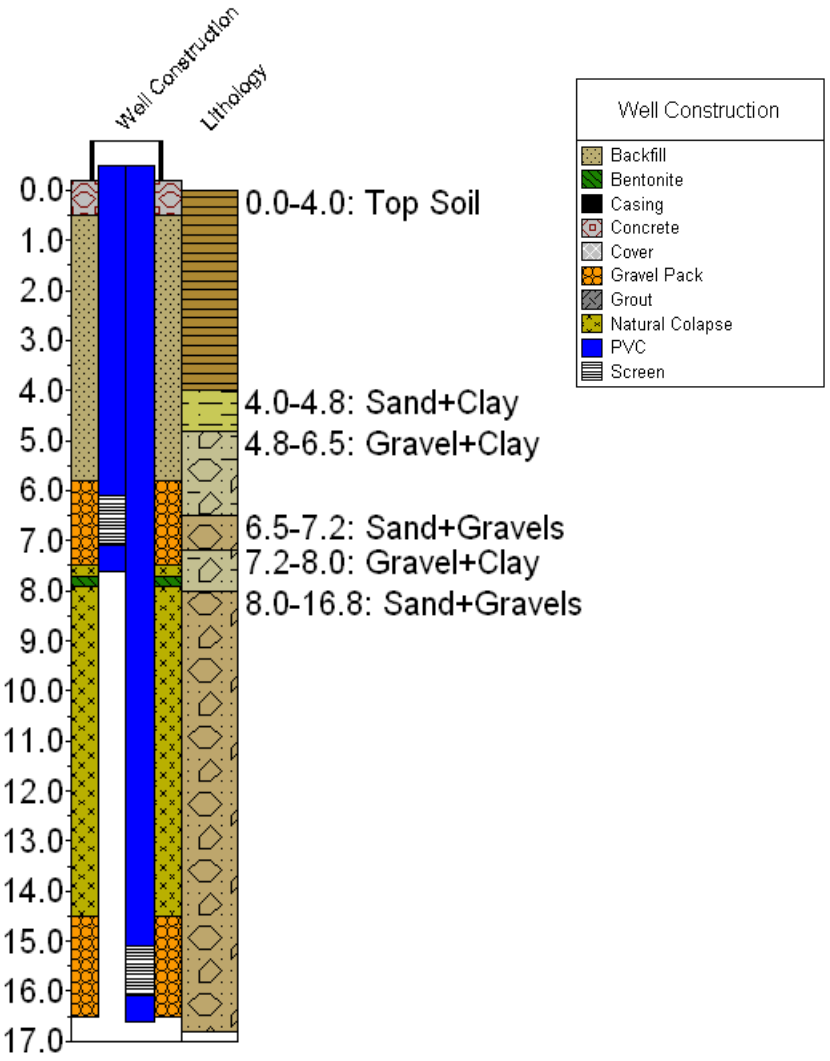
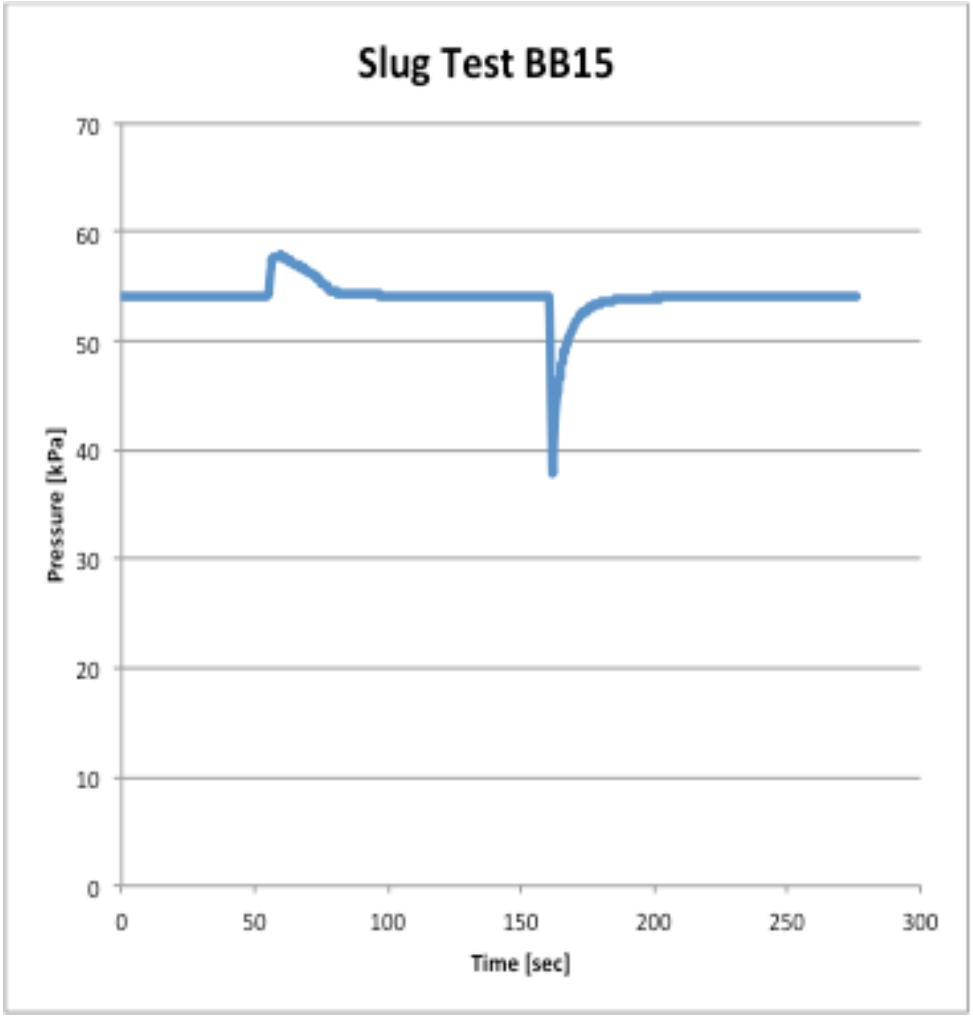
Stratigraphic Bore Log

-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.



Slug Test

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



Direct-Push Hydrostratigraphic Profiling

The Hydraulic Profiling Tool (HPT) coupled to the Geoprobe drilling rig produces continuous, real-time profiles of soil hydraulic properties in both fine and coarse-grained material. The HPT uses a sensitive down hole transducer to measure the pressure response of the soil to injection of water, while automatically measuring the resulting formation pressure with depth. Static pressure measurements are made by stopping at discrete intervals. Integrated into the probe body is an EC dipole.