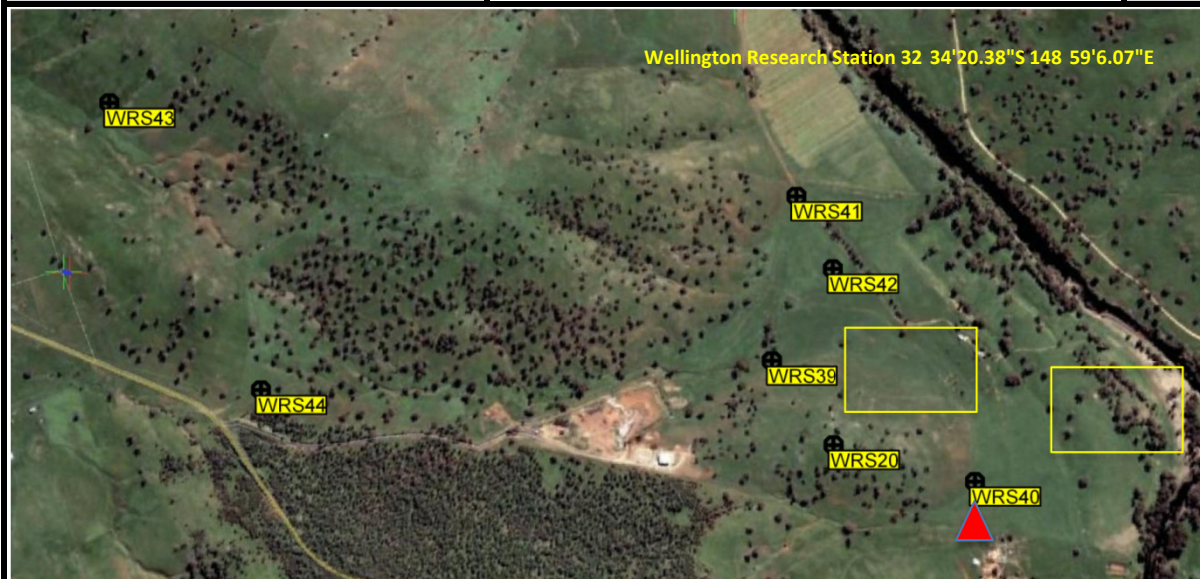




# Groundwater Education Investment Fund Project Borehole Infrastructure Report


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<b>Funding</b>	SuperScience	<b>Project</b>	RM07768
<b>Borehole Type</b>	Monitoring Bore	<b>Location</b>	Wellington Research Station
<b>Unique Well ID</b>	WRS40 (GW273249)	<b>Installed By</b>	NSW Office of Water
<b>Completion Date</b>	22.02.2012	<b>Depth Installed [m]</b>	NA
<b>Drilled By</b>	NSW Office of Water	<b>Depth Drilled [m]</b>	45
<b>Monument Type</b>	Round Blue Swing Top	<b>Drilled Diameter/Method</b>	172mm/Rotary Air
<b>Monument Diameter/Width [mm]</b>	170	<b>Screen Depth [m]</b>	NA
<b>Top of Monument from GL [m]</b>	1.02	<b>Screen Type</b>	NA
<b>PVC Casing to TOM [mm]</b>	NA	<b>Level of Bentonite [m]</b>	NA
<b>Elevation (AHD71)</b>	302.936	<b>Casing Size/Type</b>	NA
<b>Easting</b>	686347.911	<b>SWL After Development [m]</b>	17.5
<b>Northing</b>	6394004.715	<b>Development Details</b>	Air lifted 1 hr




**Comments**

This borehole is situated along a specific transect outside the upper groundwater investigation site, and is located outside the zone of influence from the extraction well.

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**Prof. Ian Acworth**  


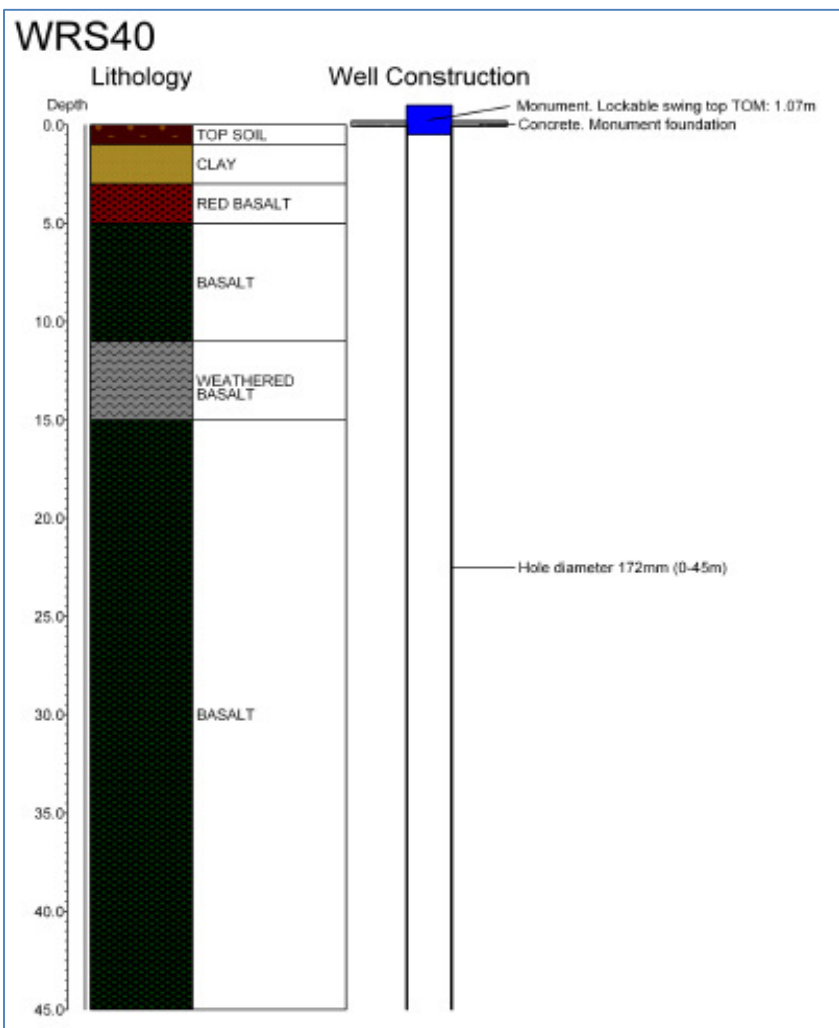


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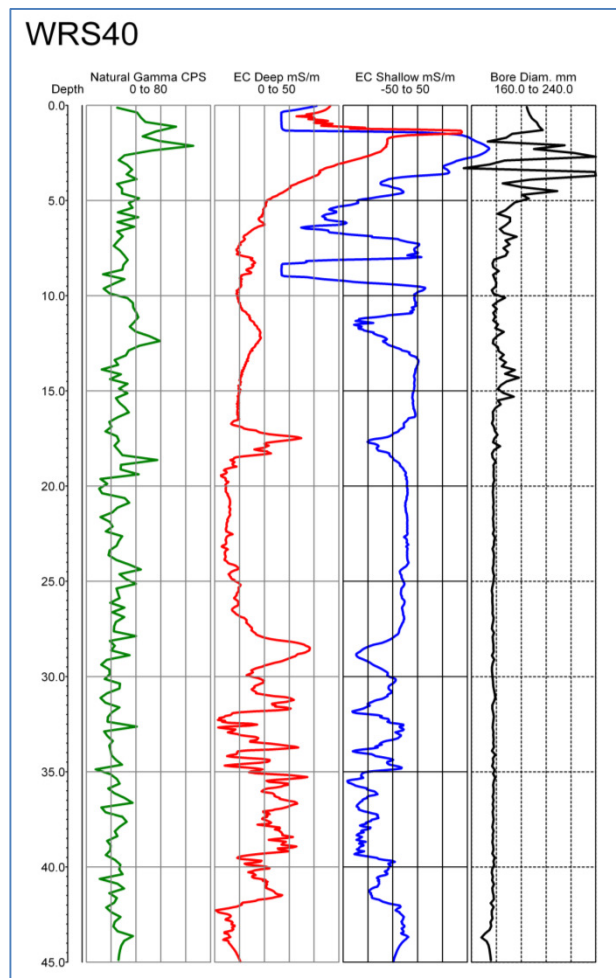
## Stratigraphic Bore Log

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.



## Geophysics Log

The portable Geovista logging system was used to collect geophysical data from 45m to surface. The Electrical Conductivity sonde (DILS) 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 has not been performed on this monitoring bore. Future field work that incorporates fundamentals of the slug test on open boreholes has been planned.

## Groundwater Quality

Basic chemical analysis of the dissolved solutes and concentration of ions in the borehole has not yet been completed. Future testing has been planned and will also included hydrogen ion activity (pH) and fluid electrical conductivity (EC). Data from the chemical analysis is to be displayed in the table below.

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