



An Australian Government Initiative

# Groundwater Education Investment Fund Project

## Borehole Infrastructure Report

<b>Funding</b>	SuperScience	<b>Project</b>	SuperScience
<b>Borehole Type</b>	Extraction well	<b>Location</b>	Maules Creek
<b>Unique Well ID</b>	MCBH14	<b>Installed By</b>	NSW Office of Water
<b>Completion Date</b>	20/04/2011	<b>Depth Installed [m]</b>	25
<b>Drilled By</b>	NSW Office of Water	<b>Depth Drilled [m]</b>	26
<b>Monument Type</b>	Round Blue Swing Top	<b>Drilled Diameter/Method</b>	300mm, Tubex/Rotary Air
<b>Monument Diameter/Width [mm]</b>	300	<b>Screen Depth [m]</b>	12-24m
<b>Top of Monument from GL [m]</b>	0.88	<b>Screen Type</b>	SS round wire
<b>PVC Casing to TOM [mm]</b>	-25	<b>Level of Bentonite [m]</b>	0.5-1.5m
<b>Elevation (AHD71)</b>	290.646	<b>Casing Size/Type</b>	225mm PVC Class 19
<b>Easting</b>	6622702.273	<b>SWL After Development [m]</b>	6.55
<b>Northing</b>	219983.977	<b>Development Details</b>	air lifted 2 hrs



Comments
<p>This borehole is situated within a multiple bore groundwater investigation site and located within a transect. This site is situated down stream from other groundwater sites that incorporate climate stations, video surveillance and auto sampling of flood events.</p>

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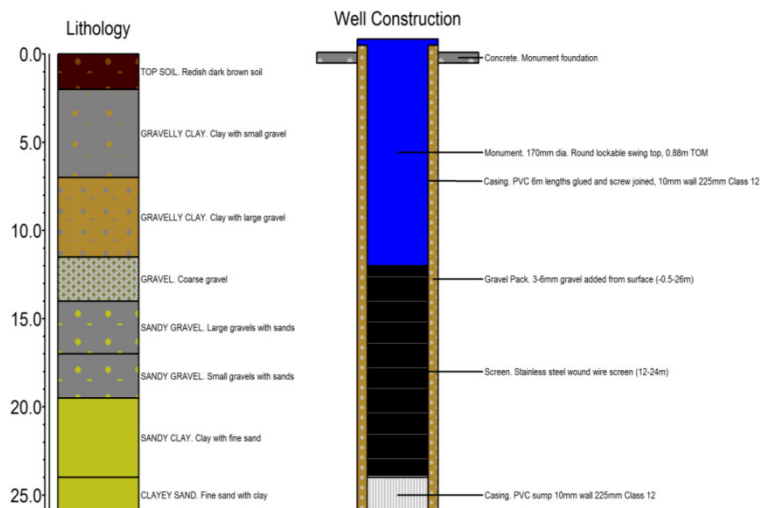
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### Stratigraphic Bore Log

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.

MCBH14



### Geophysics Log

The portable Geovista logging system was not used to collect geophysical data due to the effects of the stainless steel screen that was installed from 12-24m.



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### Slug Test

A standard slug test has not been performed using a real-time water level logger and differential pressure using nitrogen to test the borehole permeability. The results of pump tests and level data during flood events can be obtained from 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	NA		Ca <sup>2+</sup>	NA	[mg/L]
Time	NA		K <sup>+</sup>	NA	[mg/L]
SWL	NA	[m]	Mg <sup>2+</sup>	NA	[mg/L]
Field pH	NA		Na <sup>+</sup>	NA	[mg/L]
EC	NA	[μS/cm]	Si	NA	[mg/L]
Temp	NA	[°C]	Cl <sup>-</sup>	NA	[mg/L]
Alkalinity	NA	[meq/L]	NO <sub>3</sub> <sup>-</sup>	NA	[mg/L]
O <sub>2</sub>	NA	[mg/L]	SO <sub>4</sub> <sup>2-</sup>	NA	[mg/L]