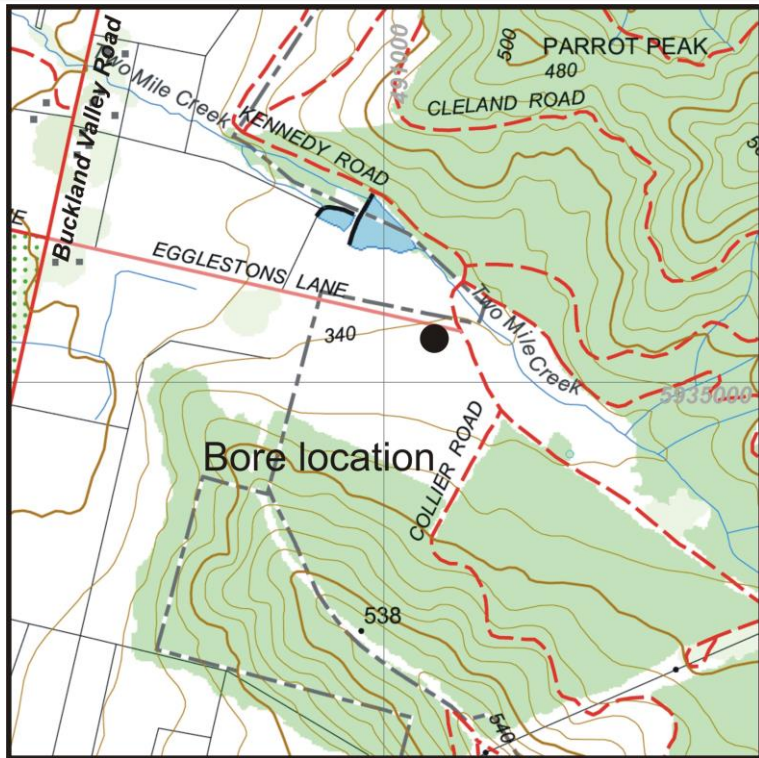




Borehole Infrastructure Report

Site Data		
Site Code	Monash B2	
Site Name	Egglestons Lane	
Region	Buckland River, VIC	
Easting	GDA94 Zone 55	0491019
Northing		5934952
Elevation (m AHD)	339.48	
Bore Depth (m)	25	
Screen Length (m)	2	
Screen Top (m)	23	
Screen Bottom (m)	24	
Bore Top	Monument	
Top of Pipe (m)	1.01	
Date Completed	10 th July 2013	



Construction details	
Borehole Type	Monitoring Bore
Installed by	Monash University
Drilled by	Alpine Drilling Pty Ltd
Drilling Method	Advanced Casing
Screen Type	Slotted PVC
Casing size / Type	80mm Class A PVC
Development Details	Purged prior to sampling



Description and Comments: Bore located on Eggleston Lane near junction with Kennedy Rd.
Continuous Data: Continuous water depth and electrical conductivity data are available for this site, measured with InSitu AQUA TROLL 100 at 30 minute intervals.

Infrastructure Report by:	Contact Details:	Checked by: Prof Ian Cartwright
Dr Harald Hofmann		Ian.Cartwright@monash.edu

Groundwater Chemistry

Field Data

Date of Sampling	22/08/2013
Depth Below Natural Surface (m)	5.03
Reduced Water Level (m)	334.45
EC ($\mu\text{S}/\text{cm}$)	48.7
pH	5.15
DO (mg/l)	0

Stratigraphy:

1 – 3 m Red clay
 3 – 15 m Weathered gravels
 15 – 25m Weathered shale

Anions

HCO₃ (mg/L)	15.32
F (mg/L)	0.06
Cl (mg/L)	2.04
Br (mg/L)	0.01
NO₃ (mg/L)	0.03
SO₄ (mg/L)	0.78

Cations

Li ($\mu\text{g}/\text{L}$)	0.81
Na (mg/L)	2.51
Mg (mg/L)	1.28
K (mg/L)	0.95
Ca (mg/L)	1.87
Mn ($\mu\text{g}/\text{L}$)	13.21
Fe ($\mu\text{g}/\text{L}$)	14.27
Sr ($\mu\text{g}/\text{L}$)	18.00
Ba ($\mu\text{g}/\text{L}$)	15.38

Isotopes

$\delta^{18}\text{O}$ (‰)	-6.5
$\delta^2\text{H}$ (‰)	-35
$\delta^{13}\text{C}$ (‰)	-20.8
¹⁴C pMC	84.54
Tritium (TU)	1.10