

Update on Broke Groundwater Monitoring Program –  
AGL Hunter Gas Project  
Presentation to BCCC – 1 February 2010

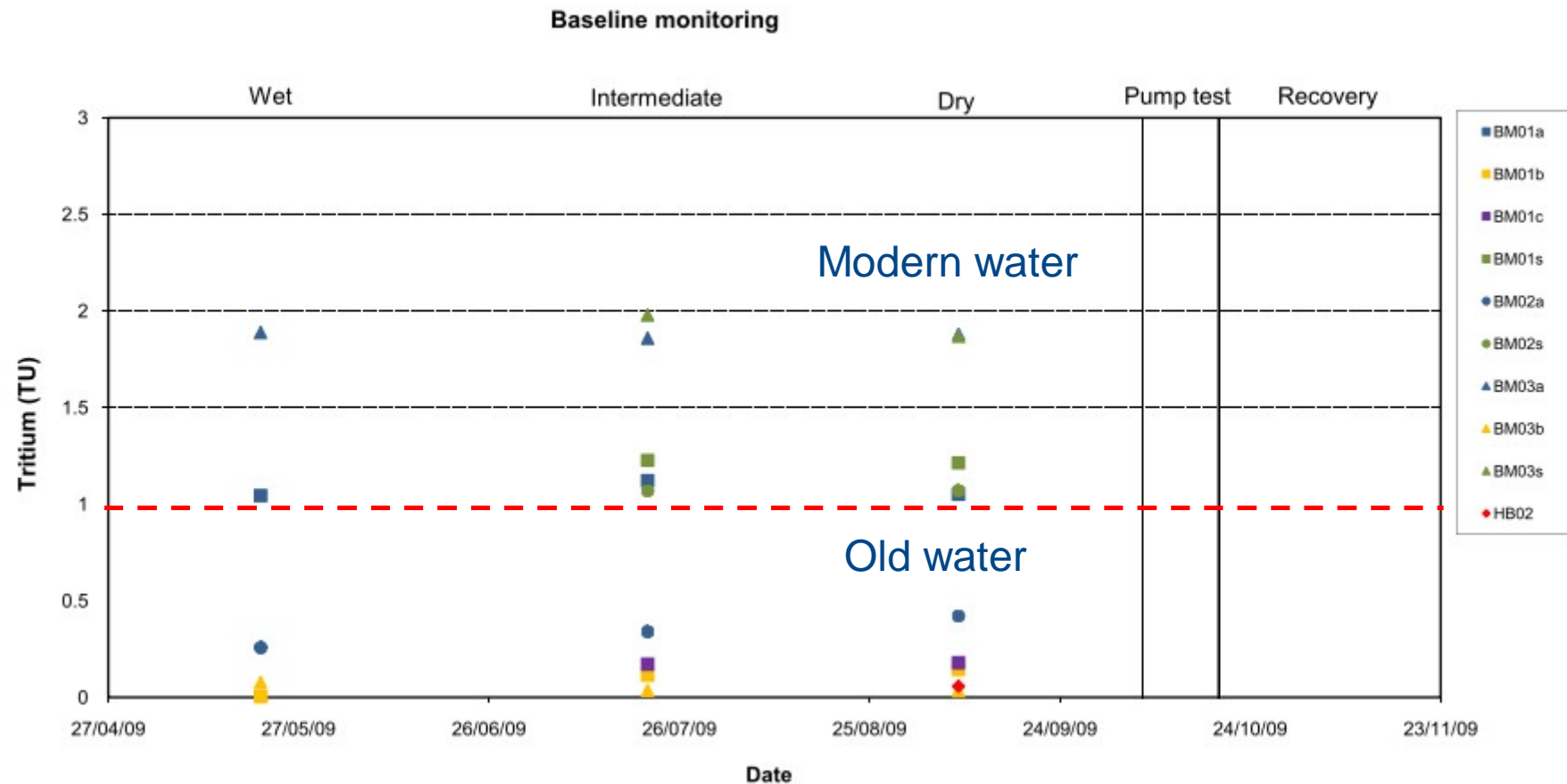
# PB Scope and Work Program

1. Installation of monitoring bores (alluvium and deeper rock aquifers) and report
2. Baseline groundwater sampling ('wet', intermediate, 'dry' then pumping test and recovery events)
3. Datalogger installation and operation
4. Pumping test of HB02
5. Recovery water levels and sampling
6. Maintain dataloggers at BM01 site
7. Final analysis and reporting

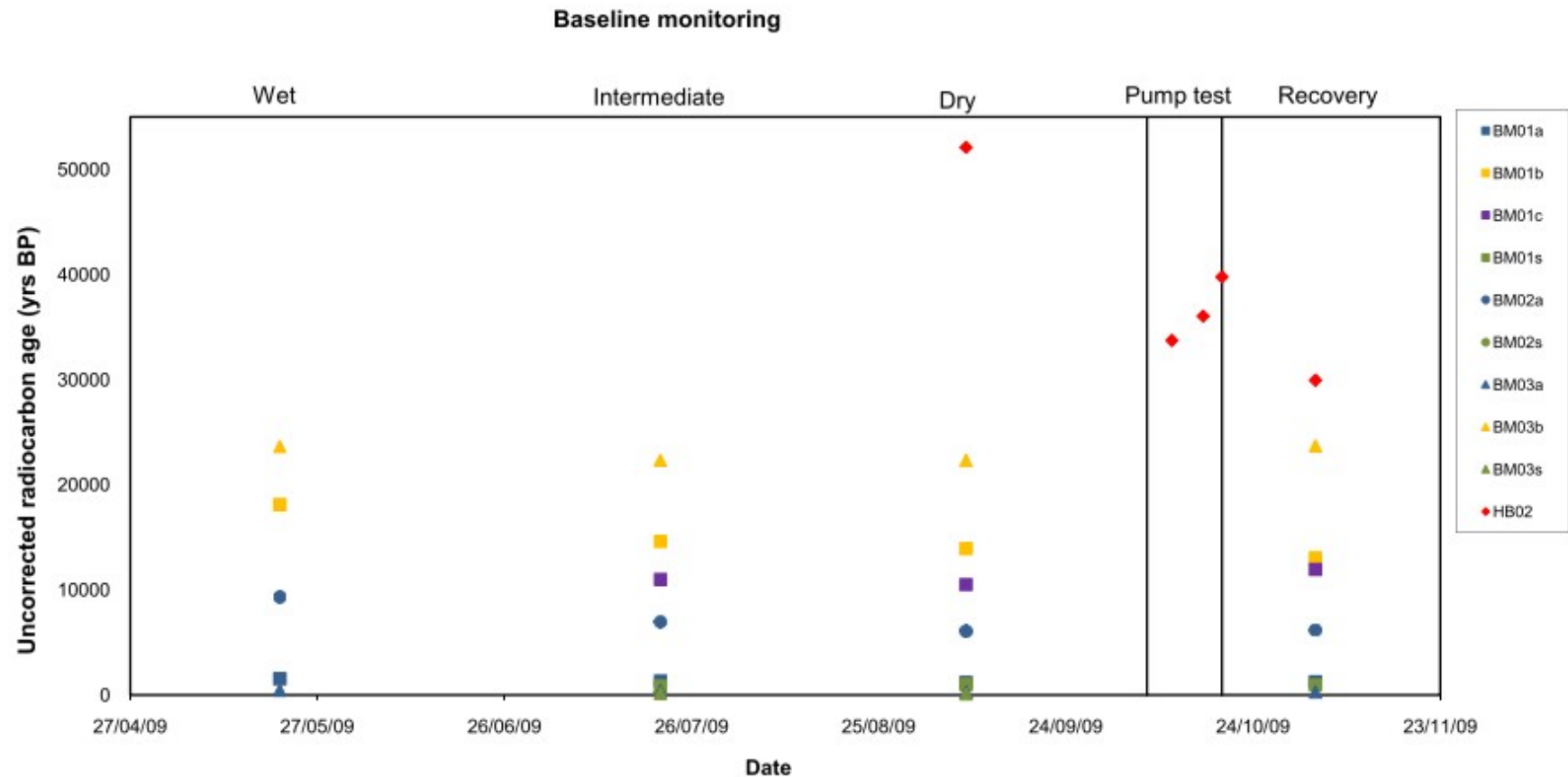
# December and January Update

1. Comprehensive data analysis and interpretation
2. Final chemistry results received from Australian labs
3. Most  $^{14}\text{C}$  (pumping test and recovery) and some tritium results (baseline) received from NZ labs
4. One sample submitted for  $^{36}\text{Cl}$  age determination and extra samples from pumping test submitted for  $^{14}\text{C}$  analysis
5. Awaiting –
  - $^{14}\text{C}$  final results and correcting “uncorrected ages” to “corrected ages”
  - Tritium for pumping test (HB02) and recovery events

# Isotope results - all sites – Tritium



# Isotope results - all sites – $^{14}\text{C}$ (uncorrected ages)



# Status

(as stated in December)

- Nothing in the monitoring water level data to suggest that there is any drainage or connectivity with deep (coal seam) aquifers during pumping test
- Nothing in the latest water quality data from HB02 or the monitoring bores to suggest that there is water draining from upper aquifers

Plan to complete

- Finalise the report by mid February and to provide to Professor Garry Willgoose ~ 15 February for review
- At March 10 BCCC:
  - PB to present the report - investigation results/conclusions in detail
  - Garry Willgoose to present peer review to BCCC