

Gellibrand Summer Flows Improvement Project Project Update 2 – July 2017

Welcome to the second project update!

For background information about the project objectives, project partners and stakeholder input, please refer to the project [fact sheet](#) and [Project Update 1](#) available at www.wannonwater.com.au.

Recent activity:

- May 2017 - Pilot drilling for the test bore
- May 2017 - Soil samples and gamma log of pilot bore
- May 2017 - Soil test results from LAWROC group
- May 2017 - Site visit with project team and Stakeholder Reference Group

(for more information on the above, please refer to the [May Site Visit Report](#))

- June 2017 - Survey for sensitive areas by project team completed (see below).

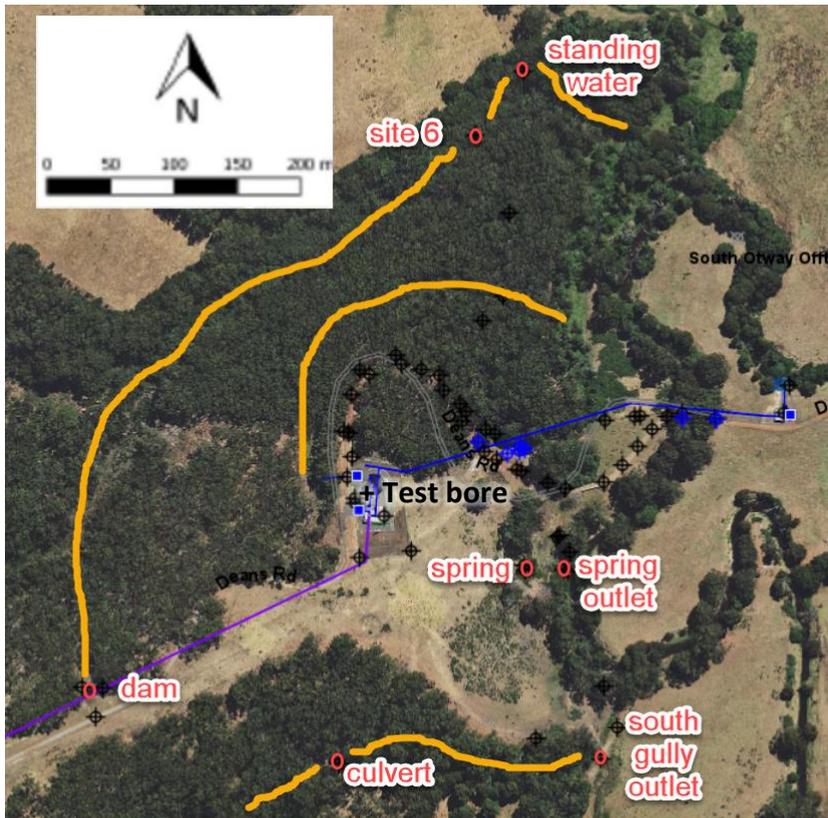
Activities planned for coming weeks and months:

- Complete the test bore construction – July Week 2
- Drill observation bores, soil samples – July Week 4
- Soil test results – email report to SRG – August Week 1
- 7-day pump trial – August Week 2
- Results of the trial – meeting with SRG – September
- Draft groundwater investigation report - October
- Broader consultation on options going forward – October

Please note: the timing of all the above activities has been delayed. The construction of the test bore has taken longer due to the depth of the borehole (the pilot hole being 265 metres; prior to drilling the estimated depth was 120 metres).

Survey for sensitive areas

The survey for sensitive areas within the buffer area (500m radius of the test bore) was completed on 9 June by Wannon Water staff Tim Harrold and Ash Burns.



Features of interest and observations from the survey:

- Vegetation identified during the survey is consistent with “wet gully” ecosystems.
- Site 6 – (originally identified and sampled by LAWROC) has a large percentage of Woolly Tea-tree (*Leptospermum lanigerum*) and a smaller percentage of Scented Paperbark (*Melaleuca squarrosa*), however, it does not match the benchmark for Swamp Scrub (EVC 53).
- Three gullies were defined – north, central and south, indicated with yellow lines.
- There is a spring downslope of the Main Pump Station as labelled. Water was observed (9 July 2017) flowing at the site labelled “spring outlet”. This area is disturbed by stock access and is very boggy. The “spring outlet” site may be inaccessible in wet weather.
- Water was observed (9 July 2017) flowing in the south gully at the “culvert” as labelled. This site is disturbed by stock access.
- Water was not observed flowing in the north or central gullies. Standing water was observed below site 6, as indicated.
- There is a small dam at the head of the north gully that captures water from a cleared catchment associated with the track that heads southwest.

Proposed monitoring:

Prior to, during and after the 7-day pump test of the test bore, it is proposed to:

- Monitor flow at “south gully outlet” and “culvert”.
- Monitor flow at “spring outlet”.
- Monitor water level at “standing water” and “dam”
- Monitor daily rainfall at the SE corner of the Wannan Water enclosure.

If changes in flow or water level occur during the pump test that are not associated with rainfall events, this will be reported on.

Soil samples for testing of acid sulphate potential will be collected from the following areas with saturated soils:

- Near the standing water below site 6
- The spring
- The south gully outlet
- Two sites with saturated soil on the river flat between the spring and the central gully outlet, to be determined.

Site Photos



“South Gully Outlet”



“Culvert”



“Spring outlet”



“Standing Water”



“Dam”