



Friends of Scotchmans Creek and Valley Reserve Inc



Inc No A0037872K

Waterwatch Report 24 July 2016

Scope

- Basic chemistry and ammonium tests at all sites.
- Flow measurement and/or observations at all sites.
- Dissolved Oxygen and Phosphate tests at the downstream sites (sites 2 and 3).
- Annual habitat assessments at the downstream sites (sites 2,3 and 5).

Weather Conditions

During testing: Sunny, but cold.

Previous 24 hours: Partly cloudy.

Previous week: Cloudy and cold, 23 mm rainfall.

Water Quality Results

	YSC010 Site 1A Fiander arm	YSC012 Site 1B Crosby arm	YSC020 Site 2 Regent St	YVA100 Site 3 Valley Creek
Air Temp C	6	6	6	6
Water Temp C	9.5	9	9	8
pH	7.6 G	7.3 G	6.9 E	7.0 E
Oxygen Conc. mg/l			8.8 E	9.1 E
Conductivity E.C.	510 P	290 F	230 G	320 F
Turbidity F.T.U	31 D	16 G	29 P	21 P
Phosphorus, soluble ppm			0.052 P	0.010 G
Ammonium NH ₄ ⁺ ppm	0.00 E	0.00 E	0.04 E	0.02 E
Stream Flow (volume) l/s	17.5	16.8	96.3	10.0

(E = Excellent, G = Good, F = Fair, P = Poor, D = Degraded)

Annual Habitat Assessment

- Site photographs accompany this report as a separate file.
- Site 2 (Scotchmans Creek at Regent St). Verge replanting is ongoing, resulting in good habitat. The willows are dropping old limbs over and into the creek. Rated Fair.
- Site 3 (Valley Creek at Regent St). 24 July 2016: The banks are rather weedy. Overhanging native vegetation is good. Verge vegetation replanting (north side) is good. Rated Good.
- Site 5 (Mt Waverley Wetlands, last pond). Little change to the bank and in-pond vegetation, verge vegetation adjacent to the pond is improving. Rated Fair.

Comments:

- The creeks were flowing more strongly than usual, because of the recent rain. This was accompanied by
 - Excellent oxygen and ammonium levels.
 - Some muddiness (turbidity rated Degraded the Fiander arm of Scotchmans Creek).
 - Conductivity was also Poor in the Fiander Arm.
 - The phosphate level (measured downstream at site 2) was Poor.
- We assessed the habitat at the downstream sites as slightly better than in 2015. Valley Creek was rated Good, the other sites Fair.

FGB, 26/7/16