



Friends of Scotchmans Creek and Valley Reserve Inc



Inc No A0037872K

Waterwatch Report 19th June 2016

Scope

- Basic chemistry and ammonium tests at all sites.
- Dissolved Oxygen and Phosphate tests at the upstream sites (1a (YSC010), 1b (YSC012)).
- Flow measurement and/or observations at all sites.
- Habitat assessment at the upstream sites (1a (YSC010), 1b (YSC012), 4 (YSC099)).

Weather Conditions

During testing: Overcast

Previous 24 hours: Overcast

Previous week: Some sunny days, 16 mm rain.

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	10	10	10	10
Water Temp C	11.5	11	11	10
pH	7.6 G	7.3 G	7.1 G	7.2 G
Oxygen Conc. mg/l	8.7 E	10.0 E		
Conductivity E.C.	530 P	290 F	320 F	250 F
Turbidity F.T.U	29 P	14 E	25 P	26 P
Phosphorus, soluble ppm	0.055 P	0.065 P		
Ammonium NH ₄ ⁺ ppm	0.00 E	0.01 E	0.04 E	0.00 E
Stream Flow (volume) l/s	11.0	38.5	42.0	4.9

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

Habitat Assessment

Site 1a (Scotchmans Ck). In stream vegetation has been largely removed by dredging the accumulated sand and is slowly returning. Verge vegetation very weedy (Tradescantia etc). Spot erosion still apparent. Rated Fair.

Site 1b (Glen Waverley Drain). Erosion still very active - sand banks in bed smothering in-stream vegetation which is very patchy. Very weedy verges. Rated Fair.

Site 4 (Mt Waverley Wetlands). Pond very overgrown with reeds - hence good in-stream cover. Otherwise little change. Rated Fair.



2016_06_19-102504-DSCN6755 1a up



2016_06_19-102514-DSCN6756 1a across



2016_06_19-102526-DSCN6757 1a down



2016_06_19-095416-DSCN6750 1b up



2016_06_19-095430-DSCN6751 1b across



2016_06_19-095438-DSCN6752 1b down



2016_06_19-101846-DSCN6753 site 4

Comments:

- The water chemistry was typical of these sites, with Fair to Excellent ratings except for
 - Poor conductivity and turbidity at site 1a (Scotchmans Ck, upstream)
 - Poor turbidity downstream (sites 2 and 3, Scotchmans Ck and Valley Ck)
 - Poor phosphorus rating at the sites measured (1a, 1b, the upstream sites))
- Habitat has changed slightly in the last few years.
 - At site 1a, sand dredging for flood safety also removed the instream vegetation. The banks are weedy, the verge vegetation is improving.
 - At site 1b we have lowered the scores for Verge Vegetation, In-stream Cover, and Erosion & Stability.
 - At site 4 (in the wetlands) we have increased our scores for in-stream and bank vegetation.

FGB

22 June 2016.