



Friends of Scotchmans Creek and Valley Reserve Inc



Inc No A0037872K

Waterwatch Report 20 Aug 2017

Scope

- Basic chemistry and ammonium tests at all sites.
- Dissolved Oxygen and Phosphate tests at sites 1a, 1b.
- Flow measurement and observations at all sites.

Weather Conditions

During testing: Sunny but cold.

Previous 24 hours: Cloudy, 3 mm rain.

Previous week: 30 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	10	9.5	8.5
pH	6.9 E	6.9 E	7.0 E	6.9 E
Oxygen Conc. mg/l	11.5 E	11.5 E		
Conductivity E.C.	160 G	240 G	300 F	280 F
Turbidity F.T.U	116 D	13 E	31 D	25 P
Phosphorus, soluble ppm	0.026 F	0.055 P		
Ammonium NH ₄ ⁺ ppm	0.02 E	0.04 E	0.01 E	0.00 E
Stream Flow (volume) l/s	56.1	38.5	78.8	1.7

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

Comments:

- The creeks were flowing more strongly than usual, and the Fiander arm (site 1a, Scotchmans Creek at Crosby Drive) was quite muddy (and of course so was the creek downstream at site 2).
- Most physical and chemical indicators were Fair to Excellent, except for the high turbidity at sites 1a and 2 (Degraded rating) and a Poor rating for phosphorus at site 1b (Crosby arm, Glen Waverley Main Drain).
- The oxygen levels at the upstream sites (1a, 1b) were Excellent, which is not unusual. On this visit, the titration results were both 11.5 mg/L which is extraordinarily high, corresponding to 102~104% saturation at the measured water temperature (10~11 deg C).

FGB 27/8/2017