



Friends of Scotchmans Creek and Valley Reserve Inc



Inc No A0037872K

Waterwatch Report 24 May 2015

Scope

- Aquatic invertebrate sampling and full chemistry tests at sites 2 and 3.
- Basic chemistry tests at sites 1a, 1b.
- Flow measurement and/or observations and ammonium tests at sites 1a, 1b, 2, 3.

Weather Conditions

During testing: Overcast.

Previous 24 hours: Sunny day.

Previous week: Overcast, 17 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	8	8	8	8
Water Temp C	9	9	10	9
pH	7.3 G	6.9 E	7.2 G	6.8 E
Oxygen Conc. mg/l			8.0 E	8.5 E
Conductivity E.C.	640 P	280 F	390 F	370 F
Turbidity F.T.U	37 D	10 E	19 F	17 G
Phosphorus, soluble ppm			0.055 P	0.039 F
Ammonium NH ₄ ⁺ ppm	0.02 E	0.01 E	0.06 G	0.00 E
Stream Flow (volume) l/s	5.8	6.3	18.2	0.3

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

Macro Invertebrates Results

	YSC010 Site 1A Fiander arm	YSC012 Site 1B Crosby arm	YSC020 Site 2 Regent St	YVA100 Site 3 Valley Creek
Sensitive				
<i>Damselfly larvae</i>	0	0	1	5
<i>Dragonfly larvae</i>	0	0	1	10
Tolerant				
<i>True Bugs (Backswimmers, Water Scorpions, Water Boatmen, Lesser Water Striders, Water Striders/Treaders)</i>	0	0	4	9
<i>Leeches</i>	0	0	1	3
<i>Snails (freshwater)</i>	0	0	30	24
<i>Flatworms</i>	0	0	50	4
Very Tolerant				
<i>Freshwater segmented worms</i>	0	0	11	16
<i>Blood worms</i>	0	0	1	5
Abundance Category			2	2
Total Bug Score	0	0	27	27
Stream Condition			Poor	Poor

Comments:

- Water quality test results were normal for all sites, except for Degraded/Poor turbidity and conductivity in the Fiander arm of Scotchmans Creek (site 1a), and the oxygen levels at sites 2 and 3 were Excellent (over 70% concentration)..
- Invertebrate counts were low, as expected for this season, but there was the usual variety with some Sensitive species found. The site ratings were Poor because of the low abundance.
- There was the usual unsightly litter on the banks of the Fiander arm, and less than usual elsewhere.

FGB
24/5/2015