



Friends of Scotchmans Creek and Valley Reserve Inc



Inc No A0037872K

Waterwatch Report 27 April 2014 (amended)

Scope

- Aquatic invertebrate sampling at Site 2 (Regent St, YSC020) and Site 3 (Valley Creek, YVA100)
- Basic chemistry tests at all sites.
- Dissolved Oxygen and Phosphate tests at Site 2 (Regent St, YSC020) and Site 3 (Valley Creek, YVA100)
- Ammonium tests at all sites
- Flow measurement and/or observations at all sites.

Weather Conditions

During testing: Cold, sunny

Previous 24 hours: Sunny, 2 mm rainfall

Previous week: Cold and rain (17 mm) in the first few days, then fine.

Water Quality Results

	YSC010 Site 1A Fiander arm	YSC012 Site 1B Crosby arm	YSC020 Site 2 Regent St	YVA100 Site 3 Valley Creek	YSC099 Site 4 Wetland upper	YSC100 Site 5 Wetland lower
Air Temp C	13	13	9.5	11	13	11
Water Temp C	12	13	12.5	11.5	13	12.5
pH	7.4 G	7.3 G	7.3 G	7.1 G	7.0 E	6.7 E
Oxygen Conc. mg/l			6.2 G	6.8 G		
Conductivity E.C.	310 F	150 G	230 G	300 F	170 G	90 E
Turbidity F.T.U	14 E	10 E	21 P	20 P	15 G	23 P
Phosphorus, soluble ppm			0.085 P	0.036 F		
Ammonium NH ₄ ⁺ ppm	0.00 E	0.00 E	0.07 G	0.03 E	0.07 G	0.02 E
Stream Flow (volume) l/s	10.8	16.0	20.0	1.2		

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

Macro Invertebrates Results

	YSC020 Site 2 Regent St	YVA100 Site 3 Valley Creek
Sensitive		
<i>Damselfly larvae</i>	12	0
<i>Dragonfly larvae</i>	3	2
Tolerant		
<i>True Bugs (Backswimmers, Water Scorpions, Water Boatmen, Lesser Water Striders, Water Striders/Treaders)</i>	6	0
<i>Leeches</i>	3	2
<i>Snails (freshwater)</i>	12	25
<i>Flatworms</i>	25	1
Very Tolerant		
<i>Mosquito larvae</i>	2	0
<i>Fly larvae</i>	1	0
<i>Freshwater segmented worms</i>	1	25
<i>Blood worms</i>	3	2
Abundance Category	2	2
Total Bug Score	30	17
Stream Condition	Poor	Poor

Comments:

- Recent rain has refreshed the creeks and the wetlands. Most of the physical and chemical ratings are Good or Excellent.
- Tubidity was unusually low at the upstream sites (rated Excellent), but rated Poor at the downstream sites, possibly due to muddy runoff from the residential areas in the vicinity of the wetlands.
- Phosphorus results were Poor / Fair, which is typical of all our sites.
- The invertebrates results were Poor. A few Sensitive bugs were found at both sites, notably 12 damselfly larvae from site 2, but the total numbers of bugs found were low.

FGB
29/4/14