



Friends of Scotchmans Creek and Valley Reserve Inc



Inc No A0037872K

Waterwatch Report 25 May 2025

Scope

- Basic chemistry and ammonium tests at all sites.
- Dissolved Oxygen and Phosphate tests at sites 2, 3 (our downstream sites)
- Flow measurement and/or observations at all sites.
- Aquatic invertebrate sampling at sites 2, 3 (our downstream sites), delayed until 28th May because of limited team size on 25th May.

Weather Conditions

Previous week: 1mm rain

Previous 24 hours: Sunny

During testing: Sunny

- The delayed invertebrates sampling day was overcast after 7 mm overnight 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	11	11	11	11
Water Temp C	11.5	12	11	11
pH	7.2 G	6.9 E	6.7 E	6.8 E
Oxygen Conc. mg/l			6.0 G	8.8 E
Conductivity E.C.	410 F	200 G	370 F	160 G
Turbidity F.T.U	12 E	10 E	24 P	15 G
Phosphorus, soluble ppm			0.049 F	0.013 G
Ammonium NH ₄ ⁺ ppm	0.01 E	0.00 E	0.09 G	0.00 E
Stream Flow estimate l/s	2.7	6.5	19.3	2.6

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

Macro Invertebrates Results

		YSC020 Site 2 Regent St	YVA100 Site 3 Valley Creek
	Bug score	Number found	Number found
Very Sensitive			
<i>Caddisfly larvae</i>	7	0	2
Sensitive			
<i>Freshwater Slaters</i>	5	1	1
Tolerant			
<i>Leeches</i>	3	2	0
<i>Snails (freshwater)</i>	3	2	0
<i>Flatworms</i>	3	4	0
Very Tolerant			
<i>Mosquito larvae</i>	2	1	0
<i>Midge larvae</i>	2	1	0
<i>Fly larvae</i>	2	0	2
<i>Freshwater segmented worms</i>	1	16	4
<i>Blood worms</i>	1	1	0
Total Number Found		28	9
Total Bug Score		20	15
Stream Condition		Poor	Poor

Comments:

This survey was done on two separate days, because of limited attendance (initially 3 people) on the originally scheduled date of 25th May. We deferred the invertebrates survey to be a part of a year 10 school excursion that we were assisting on 28th May.

- Chemical results typical of the low flow conditions were: Low flow, low turbidity and high conductivity at site 1a (YSC010, Scotchmans Ck upstream of Blackburn Rd).
- Ammonium was higher below the Mt Waverley wetlands than above, which often occurs.
- Phosphorus results were better than usual.
- The invertebrates samples had more gambusia (mosquito fish) than usual, and unusually low counts of invertebrates.

FGB 29/5/2025