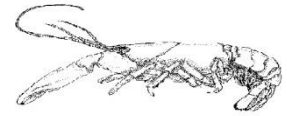




Friends of Scotchmans Creek and Valley Reserve Inc



Inc No A0037872K

Waterwatch Report 22 September 2024

Scope

- Aquatic invertebrate sampling at sites 1a and 1b (upstream sites).
- Basic chemistry and ammonium tests at all sites.
- Dissolved Oxygen and Phosphate tests at the upstream sites.
- Flow measurement and/or observations at all sites.

Weather Conditions

Previous week: Mild, cloudy, 16 mm rain.

Previous 24 hours: Overcast, light drizzle.

During testing: Overcast, with some sunny breaks.

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	12	12	13	13
Water Temp C	12	12	13	13
pH	7.6 G	7.1 G	7.1 G	7.1 G
Oxygen Conc. mg/l	11.0 E	11.4 E		
Conductivity E.C.	340 F	140 G	220 G	270 F
Turbidity F.T.U	19 F	9 E	23 P	30 D
Phosphorus, soluble ppm	0.049 F	0.020 G		
Ammonium NH4+ ppm	0.00 E	0.00 E	0.07 G	0.00 E
Stream Flow estimate l/s	28.4	41.4	31.5	4.8

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

Macro Invertebrates Results

		YSC010 Site 1A Fiander arm	YSC012 Site 1B Crosby arm
	Bug score	Number found	Number found
Sensitive			
<i>Freshwater mussel</i>	5	4	0
Tolerant			
<i>Snails (freshwater)</i>	3	0	50
<i>Flatworms</i>	3	0	1
Very Tolerant			
<i>Freshwater segmented worms</i>	1	10	1
<i>Blood worms</i>	1	0	5
Total Number Found		14	57
Total Bug Score		6	8
Stream Condition		Poor	Poor

Comments:

- The water in YSC010 (Fiander arm) was slightly turbid, compared to the water in YSC012 (Crosby arm) which was clear. Both sites have Excellent oxygen level.
- The conductivity reading at Site YSC010 was Poor last month compared to Excellent this month, this is likely to be the contribution of recent rainfall.
- The ammonium test results were Excellent for sites YSC010, YSC012 and YVA100; it was Good for site YSC020.
- We recommended our aquatic invertebrate sampling : the bug score was Poor. There was very low variability of species observed.