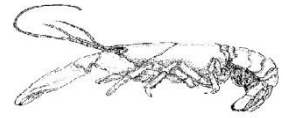




Friends of Scotchmans Creek and Valley Reserve Inc



Inc No A0037872K

Waterwatch Report 19 February 2023

Scope

- Aquatic invertebrate sampling at sites 1a and 1b (up sites).
- Basic chemistry and ammonium tests at all sites. No pH was tested due to indicator unavailable.
- Dissolved Oxygen and Phosphate tests at sites 1a & 1b (upstream sites).
- Ammonium tests at all sites.
- Flow measurement and/or observations at all sites.

Weather Conditions

Previous week: no rain, dry.

Previous 24 hours: Cloudy, dry overnight.

During testing: Sunny and gradually warming up.

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	18.5	18.5	19.5	19.5
Water Temp C	16.5	16.5	19	18
pH				
Oxygen Conc. mg/l	6.4 G	8.1 E		
Conductivity E.C.	730 P	100 G	250 F	1070 D
Turbidity F.T.U	10 E	7 E	10 E	52 D
Phosphorus, soluble ppm	0.039 F	0.020 G		
Ammonium NH ₄ ⁺ ppm	0.10 F	0.00 E	0.01 E	0.12 F
Stream Flow (volume) l/s	1.7	18.5	29.8	

(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>Damselfly larvae</i>	6	1	10
<i>Dragonfly larvae</i>	6	0	2
Tolerant			
<i>Beetle larvae</i>	4	0	20
<i>Leeches</i>	3	2	0
<i>Snails (freshwater)</i>	3	30	30
<i>Flatworms</i>	3	30	30
Very Tolerant			
<i>Fly larvae</i>	2	0	10
<i>Freshwater segmented worms</i>	1	1	10
<i>Blood worms</i>	1	50	50
Total Number Found		114	162
Total Bug Score		17	26
Stream Condition		Poor	Poor

Comments:

- No pH measurement was taken as there was no pH indicator available.
- Oxygen level was Good and Excellent for Sites 1a and 1b.
- The turbidity was low at Sites 1a, 1b and 2.
- The invertebrate survey ratings ('Waterwatch' method) were Poor for both the upstream sites.
- Valley Creek bed was virtually dry (no stream flow measured) and had very little litter.

ML / FGB 19/02/23.