



Friends of Scotchmans Creek and Valley Reserve Inc



Inc No A0037872K

Waterwatch Report 23 October 2022

Scope

- No aquatic invertebrate sampling at sites 2 and 3 (downstream sites).
- Basic chemistry and ammonium tests at sites 1a, 1b (upstream sites) & 2 (downstream site).
- Dissolved Oxygen and Phosphate tests at site 2 only (downstream site).
- Flow measurement and/or observations at all sites.

Weather Conditions

Previous week: 24 mm rain.

Previous 24 hours: Cloudy, rain overnight 3 mm.

During testing: Cloudy.

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	14.5	14.5	14.5	
Water Temp C	15	15	15.5	
pH	7.6 G	7.5 G	7.1 G	
Oxygen Conc. mg/l			8.2 E	
Conductivity E.C.	550 P	340 F	340 F	
Turbidity F.T.U	41 D	16 G	43 D	
Phosphorus, soluble ppm			0.033 F	
Ammonium NH ₄ ⁺ ppm	0.00 E	0.00 E	0.02 E	
Stream Flow estimate l/s	77.3	58.8	252.0	2.9

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

Macro Invertebrates Results

Scheduled but not sampled – see comments below.

Comments:

- Due to sewerage spill into Site 3, no sampling was performed for health and safety reasons. Yarra Valley Water is aware of the issue and had tagged the area. Some hay bales were placed in the stream to assist cleanup. Vegetation around Valley Creek was noticeably sparse, perhaps due to ingress/egress of Yarra Valley Water. The photo below was taken from the footpath; Valley Creek is not normally visible from this viewpoint :



- Turbidity was Good (Site 1b) to Degraded (Sites 2 & 1a); both downstream branches were muddied by heavy rain. Even so, the oxygen concentration at Site 2 was excellent.
- Ammonium results were excellent for Sites 1a, 1b & 2.
- The scheduled invertebrates sampling was not done due to high turbidity and fast flow making conditions difficult at site 2 (Scotchmans Ck) and due to remnants of the sewerage spill at site 3 (Valley Ck).

- Site 2 stream flow was fast (22 ML/day) :



ML / FGB 23/10/22.