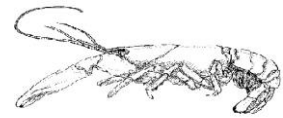




Friends of Scotchmans Creek and Valley Reserve Inc



Inc No A0037872K

Waterwatch Report 22 July 2018

Scope

- Basic chemistry tests at all sites.
- Dissolved Oxygen and Phosphate tests at sites 2, 3.
- Ammonium tests at all sites.
- Flow measurement and/or observations at all sites.
- Habitat Assessment at Sites 2, 3.

Weather Conditions

During testing: Sunny

Previous 24 hours: Cloudy

Previous week: Cloudy, cold, 12 mm rain.

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	11.5	11.5	9	9
Water Temp C	10.5	10	9	9
pH	7.1 G	6.8 E	6.7 E	6.7 E
Oxygen Conc. mg/l			8.0 E	8.6 E
Conductivity E.C.	430 F	210 G	280 F	170 G
Turbidity F.T.U	21 P	20 P	24 P	17 G
Phosphorus, soluble ppm			0.088 P	0.046 F
Ammonium NH ₄ ⁺ ppm	0.40 D	0.00 E	0.30 P	0.00 E
Stream Flow (volume) l/s	4.5	8.7	21.6	0.5

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

Comments:

- Photographs illustrating the habitat typical of sites 2 and 3 (Scotchmans Ck and Valley Ck at Regent St) are appended below.
 - The native vegetation along Scotchmans Ck is recovering after removal of the willows. 2000 more native plants were put in during a recent working bee. Localised bank erosion is occurring.
 - The south bank of Valley Ck remains very weedy, while the verge behind it has improving native vegetation. The north side has good native vegetation.
- The water chemistry test results were Fair to Excellent except for
 - Poor phosphorus level at site 2 (Scotchmans Creek).
 - Degraded ammonium level at site 1a (Scotchmans Ck upstream) and Poor at site 2 (Scotchmans Ck downstream).
 - Poor turbidity levels at all sites except Valley Ck.

FGB 23/7/18



Scotchmans Creek Site 2 Upstream



Scotchmans Creek Site 2 Instream



Scotchmans Creek Site 2 Downstream



Valley Creek Site 3 Upstream



Valley Creek Site 3 Instream



Valley Creek Site 3 Downstream