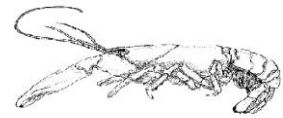




Friends of Scotchmans Creek and Valley Reserve Inc



Inc No A0037872K

Waterwatch Report 24 April 2015

This site visit was rescheduled from 19th April because then the creeks were high (Scotchmans Ck was near flood level) due to preceding heavy showers.

Scope

- Basic chemistry tests at sites 2 and 3.
- Full chemistry tests at sites 1a and 1b.
- Ammonium tests at all sites.
- Flow measurement and/or observations at all sites.
- Invertebrate sampling was cancelled because only a small crew was available at the rescheduled date.

Weather Conditions

During testing: Overcast, cool.

Previous 24 hours: Overcast, cool.

Previous week: Cool, partly cloudy, 26 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	16	16	15	15
Water Temp C	15	15	15	14
pH	6.8 E	6.5 E	6.4 E	6.5 E
Oxygen Conc. mg/l	4.0 P	6.7 G		
Conductivity E.C.	380 F	320 F	330 F	330 F
Turbidity F.T.U	26 P	9 E	17 G	13 E
Phosphorus, soluble ppm	0.075 P	0.134 D		
Ammonium NH ₄ ⁺ ppm	0.40 D	0.01 E	0.50 D	0.00 E
Stream Flow (volume) l/s	4.6	2.5	30.8	0.1

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

Comments:

- There has been a pollution event in Scotchmans Creek, evident at the Fiander Arm and at Regent St.
 - An unsightly white surface scum has accumulated below the bridge between Turner Court and Crosby Drive (site 1a). It appears to have come from the large drainpipe from the East, possibly from Kingsway via Bogong Reserve. (There is a fine white residual line on the inside of the pipe, 3 cm above the present level, some 15 cm reflective patches can be seen in the pool just below the drain, and there is a scummy area in the Bogong Reserve pond). Scotchmans Creek upstream of that drainpipe (and at Fiander Ave) appears entirely free of this scum.
 - Ammonium levels in Scotchmans Ck are Degraded at the bridge off Turner Court (site 1a) and at Regent St (site 2).
 - The oxygen concentration, turbidity and phosphorus levels were Poor at the bridge off Turner Court (site 1a).
- The phosphorus level was Degraded in the Crosby Arm (Glen Waverley Drain, site 1b).
- Other indicators were normal for these creeks.

FGB

24/4/2015