



## Friends of Scotchmans Creek and Valley Reserve Inc



Inc No A0037872K

### Waterwatch Report 22 May 2016

#### Scope

- Aquatic invertebrate sampling at sites 2 and 3.
- Basic chemistry tests at all sites.
- Dissolved Oxygen and Phosphate tests at sites 2 and 3.
- Ammonium tests at sites.
- Flow measurement and/or observations at all sites.

#### Weather Conditions

During testing: Overcast, mild

Previous 24 hours: Sunny

Previous week: Mild days, 2.5 mm rain

#### Water Quality Results

	<b>YSC010 Site 1A Fiander arm</b>	<b>YSC012 Site 1B Crosby arm</b>	<b>YSC020 Site 2 Regent St</b>	<b>YVA100 Site 3 Valley Creek</b>
Air Temp C	19.5	19	16	19
Water Temp C	16	15	14	13
pH	6.7 E	7.0 E	7.1 G	6.7 E
Oxygen Conc. mg/l			8.4 E	5.4 F
Conductivity E.C.	90 E	210 G	140 G	220 G
Turbidity F.T.U	18 F	29 P	9 E	23 P
Phosphorus, soluble ppm			0.098 P	0.042 F
Ammonium NH <sub>4</sub> <sup>+</sup> ppm	0.12 F	0.00 E	0.25 P	0.02 E
Stream Flow (volume) l/s	42.0	5.7	61.4	0.1

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

## Macro Invertebrates Results

	<b>YSC020 Site 2 Regent St</b>	<b>YVA100 Site 3 Valley Creek</b>
Sensitive		
<i>Damselfly larvae</i>	0	1
<i>Dragonfly larvae</i>	2	2
<i>Aquatic caterpillars (Lepidoptera)</i>	0	1
Tolerant		
<i>True Bugs (Backswimmers, Water Scorpions, Water Boatmen, Lesser Water Striders, Water Striders/Treaders)</i>	0	6
<i>Freshwater Sandhoppers (Amphiopods)</i>	0	1
<i>Leeches</i>	4	4
<i>Snails (freshwater)</i>	0	15
<i>Flatworms</i>	25	40
Very Tolerant		
<i>Freshwater segmented worms</i>	0	10
<i>Blood worms</i>	0	1
<b>Abundance Category</b>	<b>2</b>	<b>2</b>
<b>Total Bug Score</b>	<b>12</b>	<b>36</b>
<b>Stream Condition</b>	<b>Poor</b>	<b>Good</b>

### Comments:

- The creeks were flowing clear and more strongly than usual, except Valley Ck (site 3) was flowing very slowly and slightly cloudy. However Valley Ck produced much the better invertebrates sample, obtaining a Good rating, and frogs were heard calling (probably common froglet or southern brown tree frog (both common in SE suburbs)).
- Most of the water quality indicators were Fair to Excellent, except for
  - Poor turbidity in the Crosby Arm (site 1b, Glen Waverley Main Drain) and in Valley Ck (but note the invertebrates result).
  - Poor ammonium and phosphorus results at site 2 (Scotchmans Ck at Regent St).

FGB  
22/5/16