



## Friends of Scotchmans Creek and Valley Reserve Inc



Inc No A0037872K

### Waterwatch Report 28 April 19

#### Scope

- Aquatic invertebrate sampling at sites 1a, 1b (the upstream sites).
- Basic chemistry tests at all sites.
- Dissolved Oxygen and Phosphate tests at sites 1a, 1b (the upstream sites).
- Ammonium tests at all sites.
- Flow measurement and/or observations at all sites.

#### Weather Conditions

During testing: Overcast, light showers.

Previous 24 hours: Overcast

Previous week: Partly cloudy, 8 mm rainfall.

#### 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	13.5	14	14	14
Water Temp C	13	13	14	14
pH	7.1 G	6.7 E	6.5 E	6.9 E
Oxygen Conc. mg/l	6.3 G	3.9 D		
Conductivity E.C.	300 F	330 F	230 G	220 G
Turbidity F.T.U	15 G	16 G	46 D	36 D
Phosphorus, soluble ppm	0.029 F	0.111 D		
Ammonium NH <sub>4</sub> <sup>+</sup> ppm	0.02 E	0.00 E	0.04 E	0.00 E
Stream Flow (volume) l/s	1.6	17.5	7.0	1.1

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

## Macro Invertebrates Results

		YSC010 Site 1A Fiander arm	YSC012 Site 1B Crosby arm	C
	Bug score	Number found	Number found	C
Sensitive				C
<i>Damselfly larvae</i>	6	20	20	C
<i>Dragonfly larvae</i>	6	8	3	C
Tolerant				C
<i>Leeches</i>	3	10	5	C
<i>Snails (freshwater)</i>	3	20	15	C
<i>Flatworms</i>	3	20	20	C
Very Tolerant				C
<i>Mosquito larvae</i>	2	5	0	C
<i>Fly larvae</i>	2	20	40	C
<i>Freshwater segmented worms</i>	1	20	10	C
<i>Blood worms</i>	1	10	10	C
				C
<b>Total Number Found</b>		<b>133</b>	<b>123</b>	C
<b>Total Bug Score</b>		<b>27</b>	<b>25</b>	C
<b>Stream Condition</b>		<b>Poor</b>	<b>Poor</b>	C

### Comments:

- Rainfall has been low and the creek flows are still low, resulting in some poor chemical ratings..
  - Degraded oxygen and phosphorus levels at site 1b.
  - Degraded turbidity levels at sites 2, 3.
  - Otherwise Fair to Excellent ratings.
- In-stream vegetation is improving at site 1b (Glen Waverley Drain). However the invertebrate samples at both upstream sites (1a, 1b) had low variety and rated Poor.
- We glimpsed a goldfish at site 1a – disturbed by our waterbug netting activity but quickly escaping.

FGB 30/4/19