



## Friends of Scotchmans Creek and Valley Reserve Inc



Inc No A0037872K

### Waterwatch Report 21 June 2015

#### Scope

- Full chemistry tests at sites 1a, 1b (the upstream sites, Fiander and Crosby arms).
- Basic chemistry at sites 2 and 3 (the downstream sites, at Regent St).
- Flow measurement and/or observations at all sites.
- Habitat assessment at the upstream sites (1a, 1b and site 4 in the wetlands).

#### Weather Conditions

During testing: Cold, sunny.

Previous 24 hours: Cold, overcast, no rain.

Previous week: Cold, overcast, 6 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	8	8	8	8
Water Temp C	8	8	8	8
pH	7.2 G	6.3 E	6.7 E	6.6 E
Oxygen Conc. mg/l	8.5 E	5.9 F		
Conductivity E.C.	540 P	240 G	450 F	330 F
Turbidity F.T.U	15 G	12 E	18 F	16 G
Phosphorus, soluble ppm	0.078 P	0.137 D		
Ammonium NH <sub>4</sub> <sup>+</sup> ppm	0.10 F	0.02 E	0.07 G	0.00 E
Stream Flow (volume) l/s	9.1	4.1	41.7	0.0

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

## Habitat Survey

	<b>YSC010 Site 1A Fiander arm</b>	<b>YSC012 Site 1B Crosby arm</b>	<b>YSC099 Site 4 Wetland upper</b>
Bank Vegetation (max 10)	6	6	4
Verge Vegetation (max 10)	6	6	6
In-stream Cover (max 10)	8	4	6
Erosion & Stability (max 5)	3	4	4
Pools / Riffles / Bends (max 5)	3	3	3
<b>Total</b>	<b>26</b>	<b>23</b>	<b>23</b>
<b>New Rating 2015</b>	<b>Fair</b>	<b>Fair</b>	<b>Fair</b>
<b>Rating in 2014</b>	<b>26, Fair</b>	<b>27, Fair</b>	<b>21, Fair</b>

### Comments:

- There has been unsightly and possibly serious pollution in the Glen Waverley Drain (Crosby arm, site 1b). All underwater surfaces (rocks, soil, vegetation) are coated with a soft clinging pale brown substance, with a consistency like lint and flour paste mixed, with a slight fatty odour. This extends from emergence from pipes at Waverley Rd, downstream to the first wetlands pond at Blackburn Rd. Photos of effected vegetation, and rocks and a star picket, accompany this report.
- Conductivity in the Fiander Arm is unusually high (Poor) with no apparent cause.
- Other indicators are normal for these sites.
- Habitat assessments are normal for these sites, except for a low score in the Crosby arm because of the pollution noted above. Habitat photos accompany this report.

FGB 21/6/2015.