



## Friends of Scotchmans Creek and Valley Reserve Inc



Inc No A0037872K

### Waterwatch Report 27 June 2021

#### Scope

- Basic chemistry tests and observations at all sites.
- Dissolved Oxygen tests at sites 1a, 1b (upstream sites).
- Habitat surveys at sites 1a, 1b (upstream sites).

#### Weather Conditions

Previous week: 17 mm rain

Previous 24 hours: Overcast

During testing: Overcast

#### Water Quality Results

	<b>YSC010</b> <b>Site 1A</b> <b>Fiander</b> <b>arm</b>	<b>YSC012</b> <b>Site 1B</b> <b>Crosby</b> <b>arm</b>	<b>YSC020</b> <b>Site 2</b> <b>Regent</b> <b>St</b>	<b>YVA100</b> <b>Site 3</b> <b>Valley</b> <b>Creek</b>
Air Temp C	12.5	12.5	10	10
Water Temp C	11	11	10.5	10.5
pH	7.5 G	7.2 G	7.0 E	7.1 G
Oxygen Conc. mg/l	10.0 E	9.8 E		
Conductivity E.C.	520 P	350 F	230 G	250 F
Turbidity F.T.U	24 P	13 E	23 P	26 P
Phosphorus, soluble ppm				
Ammonium NH <sub>4</sub> <sup>+</sup> ppm				
Stream Flow estimate l/s	10.5	10.5	70.4	0.4

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

#### Habitat Assessments

Site 1a (Scotchmans Ck between Turner Crt and Crosby Drive): Little to no instream vegetation, streambed is mainly sand and angular gravel. Bank vegetation is now established native species from active revegetation program. Moderate bank erosion in areas not protected by large boulders. A large flow event

within the last week increased water depth by ~1.5m and flushed leaf litter etc from banks. Water level back to low flow at time of assessment.

The Habitat Rating was 22/40, Fair.

Site 1b (Glen Waverley Drain at confluence with Scotchmans Ck): Overstorey predominantly native (revegetated) provides extensive cover and shading across channel but understorey is very weedy. Frequent large clumps of instream vegetation. Sand and gravel substrate with introduced large boulders creating riffles and controlling erosion. Banks largely protected but some erosion on northern bank. High flow event within last week increased depth to ~0.5m which has flushed leaf litter from low banks.

The Habitat Rating was 27/40, Fair

The habitat photosets are shown below.



Site 1a Upstream P1040103



Site 1a Instream P1040105



Site 1a Downstream P1040104



Site 1b Upstream P1040106



Site 1b Instream P1040108



Site 1b Downstream P1040107

### Comments:

- As often happens soon after a rain event, most of our sites have poor turbidity, and site 1a (Scotchmans Ck upstream) has poor conductivity. Other ratings were Fair to Excellent.
- Habitat ratings over the last 6 years have fallen at site 1a (Scotchmans Ck) and improved at site 1b (Glen Waveley Drain).

FSCVR Waterwatch Team 1/7/'21.