



Friends of Scotchmans Creek and Valley Reserve Inc



Inc No A0037872K

Waterwatch Report 22 January 2023

Scope

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

Weather Conditions

Previous week: 11 mm rain.

Previous 24 hours: Cloudy, dry overnight.

During testing: Overcast with periods of sun.

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	21	21	19.5	21
Water Temp C	19.5	19	18.5	17
pH	7.1 G	6.8 E	7.0 E	6.7 E
Oxygen Conc. mg/l			6.6 G	2.0 D
Conductivity E.C.	220 G	100 G	260 F	530 P
Turbidity F.T.U	31 D	7 E	16 G	32 D
Phosphorus, soluble ppm			0.036 F	0.075 P
Ammonium NH ₄ ⁺ ppm	0.00 E	0.00 E	0.15 F	0.15 F
Stream Flow (volume) l/s	40.5	15.1	26.8	

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

Macro Invertebrates Results

		YSC020 Site 2 Regent St	YVA100 Site 3 Valley Creek
	Bug score	Number found	Number found
Very Sensitive			
<i>Caddisfly larvae</i>	7	1	0
Sensitive			
<i>Damselfly larvae</i>	6	100	3
Tolerant			
<i>Beetle larvae</i>	4	3	20
<i>True Bugs (Backswimmers, Water Scorpions, Water Boatmen, Lesser Water Striders, Water Striders/Treaders)</i>	4	7	1
<i>Beetles/Dytiscid beetles, Whirligig beetles</i>	3	0	6
<i>Leeches</i>	3	4	0
<i>Snails (freshwater)</i>	3	20	20
<i>Flatworms</i>	2	50	1
Very Tolerant			
<i>Mosquito larvae</i>	2	10	200
<i>Midge larvae</i>	2	0	20
<i>Fly larvae</i>	2	10	0
<i>Freshwater segmented worms</i>	1	5	10
<i>Blood worms</i>	1	10	10
Total Number Found		213	291
Total Bug Score		36	29
Stream Condition		Very Good	Fair

Comments:

- There was abundant damselfly larvae at Site 2. It was observed that there was quite a number of adult (flying) dragonflies at Site 1b.
- The invertebrate survey ratings ('Waterwatch' method) were Very Good and Fair for both the downstream sites.
- Valley Creek water level was low and stagnant, oxygen level was Poor. There was a large number of mosquito larvae counted.
- Milky coloured water at Site 1a, at first suspected sewerage spill and reported to the EPA. However, ammonium test results were zero.

Fred went to look at the site at 2:20 pm. The creek is flowing quite slowly (much slower than site 1b), cloudy water (ducks feet visible), no smell. He took a photo at the litter trap (see below) - all the 1a flow is in the shallow flow beside the right-hand post. Some rocks at the bridge are wet some height above the level of the water that he saw.



Looking on Yarra Valley Water’s emergency page on their website, there was a reported burst water main :

Y Faults and Outages Map - Yarra

https://faults.yvw.com.au/#/

Somers Ct, Glen Waverley VIC 3150, Australia

Emergency
Leak
SOMERS COURT GLEN WAVERLEY 3150

Description
A large water leak has been reported in the area.

Current Status
Water has been **turned back on**.
Repairs completed: 22/01/2023 12:15 PM

If necessary, we will come back to permanently restore the area – we aim to return it to a similar condition to what it was before.

Last Updated: 22/01/2023 12:15 PM

Reported Date: 22/01/2023 02:37 AM

As the water had to be turned off while we repaired our pipes, you may temporarily experience dirty or cloudy looking water after it's turned back on. This is completely normal and can be removed by running the tap at the rear of your property for a few minutes until the water runs clear.
<https://www.yvw.com.au/wateroff>

We apologise for any inconvenience
Reference Number: 8027990

LIST VIEW **REPORT A FAULT ONLINE 13 2762**

ML / FGB 22/01/23.