WATERWATCH Corangamite
Communities Caring for Catchments

Physical & Chemical Tests Record Sheet

(To be completed monthly)

Site Name: Barwon River Guye Reserve	Site Code:
Name of Monitoring Group: Winchelsea Land + River Care	
Person(s) Conducting the test:	
Date of test: 4/11/23	Time of test: 9.55 am/pm

Site Risk Assessment Completed: ☐ signature please:
Site risk and management assessment at rear of book. Please note circumstantial hazards and additional risks in the box below

Test	Result (units)		Calculations, dilutions and comments
Dissolved Oxygen	— mg/L	— % sat.	Capsule was not filled + too high to measure.
Water Temperature	15 °C		
Air Temperature	15.5 °C		
pH	Meter calibrated to ☒ pH 7 & ☐ pH 10	6.9 pH units	
Electrical Conductivity (Salinity)	Meter calibrated to ☒ 1413, ☐ 2,000 or ☒ 12,880EC	1084 EC units µS/cm.	Healthy
Reactive Phosphorus	.07 mg/L P		.01 is desired NOT GOOD
Turbidity	31 N.T.U./F.T.U.		Muddy, ∴ higher 10 is great

Weather conditions at the time of sampling:

☐ sunny ☑ cloudy ☐ overcast ☐ raining ☒ windy

Rainfall:

Last rainfall: ☐ More than week ago ☑ During the last week ☐ During the last 24 hours ☐ Raining now

Amount of rain (mm) 7mts _____ _____

Water flow
Flow indicator (if available) _____ML/day

Estimate of flow

☐ Not flowing (still) ☐ Not flowing (pool) ☐ Low (minimum) ☒ Medium (average) ☐ High (but below bankfull) ☐ Flood (over bank) ☐ Permanent (lakes & wetlands)

Water appearance

☐ Clear ☐ Milky ☐ Foamy /frothy ☒ Muddy ☐ Smelly ☐ Stained green ☐ Scummy ☐ Oily ☐ Stained brown ☐ Other (description)

Stream depth
Depth indicator _____m

☐ 0 - 50 cm deep ☐ 51cm–1m deep ☒ 1 to 2 m deep ☐ Unknown depth

Stream width
Average width of stream: _____m

☐ < 2 m wide ☐ 2 to 5 m wide ☒ >5 m wide

Drain present at site: ☒ no ☐ yes Water flowing from drain: ☐ yes Color_____ Odour_____

Litter pollutants: (Tick type found)

☐ plastic ☐ clothing ☐ car bodies ☐ paper ☐ bottles ☐ polystyrene ☐ oil ☐ petrol/diesel ☐ packets ☐ cans ☐ waxed cardboard ☐ other

Circumstantial hazards and additional risks		Waterwatch Data Management System: Data entry
Hazard:	Risk:	Person entering site visit information
Risk Control Measures:		Date of entry
		Site visit approved by Coordinator (initial and date)

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Aquatic Invertebrate Data Sheet

Group Name: Winchelsea Land + River Care **Group Size:**
Site Code: BAR060 **Date Sampled:** 4/10/23
Sample Type (circle): Edge or Riffle

For further information refer to the Waterwatch Victoria Methods Manual

AQUATIC INVERTEBRATES NAME	Column 1 Bug scores	Column 2 Abundance
Very Sensitive Aquatic Invertebrates		
Stonefly Nymph	8	
Mayfly Nymph	7	3
Caddisfly Larvae	7	15
Sensitive Aquatic Invertebrates		
Toe-biters/Dobsonflies/Alderflies (Megaloptera)	6	
Damselfly Nymph	6	10
Dragonfly Nymph	6	
Freshwater Mussel	5	
Aquatic caterpillars (Lepidoptera)	5	
Freshwater Shrimp/prawn	5	3
Freshwater Yabbie/Crayfish	5	
Water Mite	5	5
Freshwater Slater	5	
Tolerant Aquatic Invertebrates		
Hydra	4	
Beetle Larvae	4	
True Bugs (Backswimmer, Water Scorpion, Water Boatman, Lesser Water Strider, Water Strider/Treader)	4	100
Freshwater Sandhopper (Amphipod)	4	1
Beetles (Dytiscid Beetles, Whirligig Beetles)	3	1
Nematodes	3	
Leech	3	
Snails (freshwater)	3	
Flatworm	3	
Very Tolerant Aquatic Invertebrates		
Mosquito Larvae	2	
Midge Larvae	2	20
Fly Larvae	2	
Aquatic Earthworm	1	
Blood Worm	1	2
Totals	44	160

Sample Collection:
When collecting the sample work over an area of 10m for 10min.

Live Sorting:
Sort through the sample for 30mins removing one of each different aquatic invertebrate observed and place into a ice cube tray. If after 30mins you find an invertebrate that you haven't observed before, sort for a further 10 mins.

When finished sorting use reference texts to identify each type of invertebrate. Circle the type in column 1 and in column 2, estimating the number found.

Stream Condition Chart:
From the total scores at the bottom of column 1 and 2 use the values to calculate a Stream Condition.

From column 2 use the total no. of animals to find the abundance category. Use the scale on the side to rate abundance category (0-5) and the total in column 1 to find the matching box.

Overall Abundance Categories

Nos. of animals	Category
0-30	1
31-100	2
101-200	3
201-500	4
>500	5

Stream Condition Chart