



## Physical & Chemical Tests Record Sheet

(To be completed monthly)

Site Name: <u>Barwon River Gorge Reserve</u>		Site Code:
Name of Monitoring Group: <u>Winchelsea Land + River Care</u>		
Person(s) Conducting the test:		
Date of test: <u>4/11/23</u>	Time of test: <u>9:55</u>	<u>am</u> /pm
Site Risk Assessment Completed: <input type="checkbox"/> 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	<u>—</u> mg/L	<u>—</u> % sat. <i>Capsule was not filled + too high to measure.</i>
Water Temperature	<u>15</u> °C	
Air Temperature	<u>15.5</u> °C	
pH	Meter calibrated to <input checked="" type="checkbox"/> pH 7 & <input type="checkbox"/> pH 10 <u>6.9</u> pH units	
Electrical Conductivity (Salinity)	Meter calibrated to <input checked="" type="checkbox"/> 1413, <input type="checkbox"/> 2,000 or <input checked="" type="checkbox"/> 12,880EC <u>1084</u> EC units μS/cm.	<i>Healthy</i>
Reactive Phosphorus	<u>.07</u> mg/L P	<i>.01 is desired NOT GOOD</i>
Turbidity	<u>31</u> N.T.U./F.T.U.	<i>Muddy, is higher 10 is great</i>
<b>Weather conditions at the time of sampling:</b>		
<input type="checkbox"/> sunny <input checked="" type="checkbox"/> cloudy <input type="checkbox"/> overcast <input type="checkbox"/> raining <input checked="" type="checkbox"/> windy		
<b>Rainfall:</b>		
Last rainfall: <input type="checkbox"/> More than week ago <input checked="" type="checkbox"/> During the last week <input type="checkbox"/> During the last 24 hours <input type="checkbox"/> Raining now		
Amount of rain (mm) <u>7mks</u>		
<b>Water flow</b>		<b>Water appearance</b>
Flow indicator (if available) _____ ML/day		
<b>Estimate of flow</b> <input type="checkbox"/> Not flowing (still) <input type="checkbox"/> Not flowing (pool) <input type="checkbox"/> Low (minimum) <input checked="" type="checkbox"/> Medium (average) <input type="checkbox"/> High (but below bankfull) <input type="checkbox"/> Flood (over bank) <input type="checkbox"/> Permanent (lakes & wetlands)		<input type="checkbox"/> Clear <input type="checkbox"/> Milky <input type="checkbox"/> Foamy /frothy <input checked="" type="checkbox"/> Muddy <input type="checkbox"/> Smelly <input type="checkbox"/> Stained green <input type="checkbox"/> Scummy <input type="checkbox"/> Oily <input type="checkbox"/> Stained brown <input type="checkbox"/> Other (description)
<b>Stream depth</b>		
Depth indicator _____ m <input type="checkbox"/> 0 - 50 cm deep <input type="checkbox"/> 51cm-1m deep <input checked="" type="checkbox"/> 1 to 2 m deep <input type="checkbox"/> Unknown depth		
<b>Stream width</b>		
Average width of stream: _____ m <input type="checkbox"/> < 2 m wide <input type="checkbox"/> 2 to 5 m wide <input checked="" type="checkbox"/> >5 m wide		
Drain present at site: <input checked="" type="checkbox"/> no <input type="checkbox"/> yes    Water flowing from drain: <input type="checkbox"/> yes    Color _____    Odour _____		
<b>Litter pollutants: (Tick type found)</b>		
<input type="checkbox"/> plastic <input type="checkbox"/> clothing <input type="checkbox"/> car bodies <input type="checkbox"/> paper <input type="checkbox"/> bottles <input type="checkbox"/> polystyrene <input type="checkbox"/> oil <input type="checkbox"/> petrol/diesel <input type="checkbox"/> packets <input type="checkbox"/> cans <input type="checkbox"/> waxed cardboard <input type="checkbox"/> other		
<b>Circumstantial hazards and additional risks</b>		<b>Waterwatch Data Management System: Data entry</b>
Hazard:	Risk:	Person entering site visit information
Risk Control Measures:		Date of entry
		Site visit approved by Coordinator (initial and date)

1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that proper record-keeping is essential for transparency and accountability, particularly in financial matters. This section also touches upon the legal implications of failing to maintain such records, which can lead to severe consequences for individuals and organizations alike.

2. The second part of the document delves into the specific requirements for record-keeping, including the types of documents that must be retained and the duration for which they should be kept. It provides a detailed overview of the various categories of records, such as financial statements, contracts, and correspondence, and outlines the best practices for organizing and storing these documents to ensure they are easily accessible when needed.

3. The third part of the document addresses the challenges associated with record-keeping, particularly in the context of digital information. It discusses the risks of data loss, corruption, and unauthorized access, and offers strategies to mitigate these risks. This includes the use of secure storage solutions, regular backups, and access controls to protect sensitive information.

4. The fourth part of the document focuses on the role of record-keeping in compliance with various regulations and standards. It highlights the importance of staying up-to-date with the latest legal requirements and industry best practices to avoid penalties and ensure the integrity of the organization's operations. This section also provides guidance on how to conduct regular audits to verify compliance and identify areas for improvement.

5. The fifth and final part of the document concludes by summarizing the key points discussed and reiterating the importance of record-keeping as a fundamental aspect of good governance and risk management. It encourages individuals and organizations to take a proactive approach to record-keeping, recognizing its value in supporting decision-making, resolving disputes, and ensuring long-term success.

# Aquatic Invertebrate Data Sheet



Group Name: *Winchelsea Land + River Care*  
 Site Code: *BARO 60*  
 Sample Type (circle): Edge or Riffle

Group Size:  
 Date Sampled: *4/10/23*

For further information refer to the Waterwatch Victoria Methods Manual

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

**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



