

Wai Care Water Quality Monitoring Record Sheet



Group Name		Parameter	Instructions	Measurement (in correct unit)	Trigger value* CALL POLLUTION HOTLINE!!!
Date sampled		Air temperature	2-3 mins for thermometer in shade	°C	N/A
Time sampled		Water temperature Ideal = <21 degrees	2-3 mins for thermometer in water	°C	Above 26°C
When did it last rain at your site? (Why is rain important? Because bugs are washed out and sediment and pollutants are washed in)	<input type="checkbox"/> – Within 24 hours <input type="checkbox"/> – 1-7 days ago <input type="checkbox"/> – More than 7 days ago	Water clarity Ideal >30cm clarity	Fill to top, hold on angle and read with sun to side	cm	Below 30cm**
If it has rained in the last week, how heavy was the rainfall?	<input type="checkbox"/> – Light (<2mm/hr) <input type="checkbox"/> – Medium (2 – 6mm/hr) <input type="checkbox"/> – Heavy (>6mm/hr)	pH Ideal = 7	Dip strip and remove, leave 1 min to develop	pH	Below 5 and above 9 Acidic=road run off Basic=detergent
Wai Care Quick Check – a quick visual/smell assessment of your stream before sampling		Dissolved oxygen Ideal = 6- 9mg/L DO can change at night		mg/L	Below 2mg/L
Smell (Note – make sure the smell is coming from the stream)	<input type="checkbox"/> - Good (fresh & natural) <input type="checkbox"/> - OK (some smell) <input type="checkbox"/> - Bad (sewage, rotten, chemical, petrol or detergent) Notes:	Nitrite Ideal = <0.1mg/L	Leave 30 seconds	mg/L	Above 0.2
Surface (Note – some organic substances produce an oily sheen too. Organic films break up when disturbed – use a stick to break up the oily sheen. If it swirls and reforms, then it is not a natural oil)	<input type="checkbox"/> - Good (clean & natural looking) <input type="checkbox"/> - OK (some surface scum or foam, no need to call Pollution Hotline) <input type="checkbox"/> - Bad (oily sheen, globs, slime, scum, foam or algal bloom) Notes:	Nitrate Ideal = <1mg/L	Leave 1 minute	mg/L	Above 5
Water (Note – if it has rained heavily in the last 24 hrs, your stream will be discoloured. Call the Pollution Hotline only if it is an unusual colour or if there has been no rain in the last 24 hours)	<input type="checkbox"/> - Good (very clear) <input type="checkbox"/> - OK (slightly murky, not completely clear, some fungus or algae) <input type="checkbox"/> - Bad (very murky and no rain in the last 24 hours, paint or other unusual discolouration) Notes:	Phosphorous Ideal = <0.02	Leave 5 minutes GLOVES!!!!!!	mg/L	Above 0.8
Obstructions or litter (Note – contact Auckland Council – 09 3010101 - to have severe rubbish and blockages removed)	<input type="checkbox"/> - Good (natural or woody debris, not blocking flow) <input type="checkbox"/> - OK (some litter caught on woody debris, likely to slow or block flow) <input type="checkbox"/> - Bad (major obstruction to flow, large items of rubbish / log jam) Notes:	Other optional e.g. E.coli, salinity etc			

*These values are a guide. Your decision to call the Pollution Hotline should be considered with your previous knowledge of the site. However, if your results reach these values and this is unusual, the Pollution Hotline should be called.

**When there has been no rain for 24hrs or if 50% lower than normal value for the weather conditions.

******* Pollution Hotline – 09 377 3107 *******

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Macroinvertebrates

Tick box for each type of invertebrate found

Taxa	Pres/Abs <input type="checkbox"/>
Crayfish (Koura)	
Flat Mayflies	
Free Living Caddisflies	
Freshwater Mussels	
Horse Hair Worms	
Latia Limpets	
Smooth-cased Caddisflies	
Spiny Gilled Mayflies	
Spiral-cased Caddisflies	
Spotty Stoneflies	
Stenoperla Stoneflies	
Stony-cased Caddisflies	
Swimming Mayflies	
Tail Gill Stoneflies	
Woody-cased Caddisflies	
Amphi/Isopods	
Backswimmers/Boatmen	
Beetles	
Crabs	
Damselflies	
Dobsonflies	
Dolomedes Spiders	
Dragonflies	
Fingernail Clams	
Mites	
Pond Skater	
Seed Shrimps	
Shrimps	
Water Fleas	
Crane-fly Larvae	
Flat Spiral Snails	
Flatworms	
Leeches	
Midges	
Mosquito Larvae	
Oligochaete Worms	
Other Maggot-like groups	
Oxy/Paroxyethira Caddisflies	
Rounded Snails	
Sandfly Larvae	

Habitat Information

Tick one box in each category that best describes the dominant feature of the site

Watercourse Type		
Stream	Wetland	Estuarine
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Catchment Land Use		
Bush	Pasture	Urban
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

General/Reach Substrata (at site and upstream)					
Gravelly	Stony	Concrete	Muddy	Sandy	Weedy
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Microhabitat (where the sample came from)					
Mud Scrape	Open Water	Macrophytes	Root Systems	Woody Debris	Stones
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Temperature/shade (at site and upstream)		
Shady Site	Some Trees	Unshaded Site
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Water Current Speed		
Fast	Slow	Stagnant
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Stream Bank Stability/Erosion		
No Erosion	Some Erosion	Very Unstable
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

- Highly sensitive species
- Moderately sensitive species
- Highly tolerant species (low sensitivity)

Notes/Other Records: