

PHYSICAL & CHEMICAL TESTS RECORD

Book No.

Complete the Physical & Chemical Tests Record Sheet each time you undertake the tests.

Site name: <u>NE_YACO12</u>		Site code: <u>YACKANDANDAH CK, OSBORNES RD, ALLANS PLAT</u>	
Name of monitoring group:			
Person(s) conducting the survey / test: <u>GREG ARNOLD</u>			
GPS Coordinates:	Easting: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Northing: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Date of survey: <u>25 / 9 / 19</u>		Time of survey: _____ am / pm	
Test	What it measures	Your result (units)	Comments
Dissolved Oxygen	Oxygen concentration	<u>4.8</u> mg/L %sat.	
Reactive Phosphorus	Nutrient levels	<u>0.030</u> mg/L	
Turbidity	Suspended solids	<u>10</u> N.T.U.	
Electrical Conductivity	Salinity	<u>83.0</u> E.C.	
pH	Acidity / alkalinity	<u>6.78</u> units	
Water Temperature	Temperature	<u>19.5</u> °C	
<p>Location of drains: Record the type and location of any drains near your monitoring site.</p> <p>Distance from drain to monitoring site: _____ meters <input type="checkbox"/> upstream <input type="checkbox"/> or downstream</p> <p>Type: <input type="checkbox"/> open drain <input type="checkbox"/> pipe Flow: <input type="checkbox"/> drain flowing <input type="checkbox"/> drain not flowing</p> <p>Drain size: <input type="checkbox"/> open drain width _____ <input type="checkbox"/> pipe diameter _____</p> <p>Description of drain water: Colour _____ Odour _____</p>			
<p>Weather conditions at the time of sampling:</p> <p><input checked="" type="checkbox"/> sunny <input type="checkbox"/> cloudy <input type="checkbox"/> overcast <input type="checkbox"/> raining <input type="checkbox"/> windy</p>			
<p>Last Rainfall:</p> <p><input type="checkbox"/> more than a week ago <input checked="" type="checkbox"/> during the last week <input type="checkbox"/> during the last 24 hours <input type="checkbox"/> raining now</p> <p>Amount of rainfall: <u>x</u></p>			
<p>Water Conditions</p> <p>Water flow: <input type="checkbox"/> not flowing <input checked="" type="checkbox"/> slow <input type="checkbox"/> fast <input type="checkbox"/> rapid <input type="checkbox"/> temporary <input type="checkbox"/> permanent</p> <p>Water Appearance: <input checked="" type="checkbox"/> clear <input type="checkbox"/> milky <input type="checkbox"/> foamy / frothy <input 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) _____</p>			
<p>Litter pollutants: (Tick type found)</p> <p><input type="checkbox"/> paper <input type="checkbox"/> bottles <input type="checkbox"/> packets <input type="checkbox"/> cans <input type="checkbox"/> plastic <input type="checkbox"/> polystyrene <input type="checkbox"/> cardboard <input type="checkbox"/> clothing <input type="checkbox"/> oil <input type="checkbox"/> car bodies <input type="checkbox"/> petrol/diesel <input type="checkbox"/> other</p>			
<p>Comments:</p> <p>_____</p> <p>_____</p>			



NORTH EAST
CATCHMENT
MANAGEMENT
AUTHORITY

MACRO-INVERTEBRATE RECORD SHEET



Book No.

Complete a Macro-invertebrate record sheet each time you conduct a biological survey.

Site name: YACKANDANDAH CREEK Site code: YAC 012

Name of monitoring group:
Person(s) conducting the survey / test: GREG ARNOLD

GPS Coordinates: Easting: Northing:

Date of survey: 25 / 04 / 19 Time of survey: 11:00 am / pm

Has it rained in the last 24 hours? YES / NO How much rain? 0 mm

Stream Habitat Rating:
Circle your stream's rating for each factor in the table below.

Tolerance Ranking	Macro-invertebrate Type	Number of type found in the sample	Tolerance Ranking	Macro-invertebrate Type	Number of type found in the sample
Very Sensitive	Mayfly nymphs	<u>Family Eutheniiidae</u>	Diptera	Midge larvae	
	Stonefly nymphs	<u>15-20</u>		Mosquito larvae	<u>10 + Black Fly Larvae</u>
	Caddis-fly larvae	<u>1 Leptoceridae</u>		Segmented worm	<u>Family Simuliidae</u>
Sensitive	Water mites	<u>Genus Tripletoides</u>	Very Tolerant	Water spider	
	Dobsonfly / Alderfly larvae			Springtail	
	Freshwater shrimp			Black Fly larvae	
	Yabbies			Blood worm	<u>4</u>
	Water scorpions			Other: <u>roundworms</u>	<u>3</u>
	Damselfly nymphs			<u>worms</u>	<u>1</u>
	Dragonfly nymphs	<u>6 Family Gomphidae (gomphids)</u>			<u>Phylum nematoda</u>
	Freshwater mussels				<u>class Oligochaeta</u>
	Freshwater slater				
	Water Flea				
Tolerant	Crane Fly larvae		Identify the two dominant groups (the ones with the most animals) in your sample and fill in their tolerance ranking:		
	Beetles & beetle larvae		Dominance Group 1:	<u>Water Boatman</u>	
	Scud		Tolerance Ranking:	<u>Tolerant</u>	
	Flatworms	<u>Family Goniadae (water striders)</u>	Dominance Group 2:	<u>Stonefly nymphs</u>	
	Water striders	<u>2</u>	Tolerance Ranking:	<u>Very Sensitive</u>	
	Water boatman	<u>15</u>	Once you have your two dominant groups refer to the Tolerance Ranking Technique at the front of this book (Table 2).		
	Back swimmers		Water-quality ranking:		
	Round worm	<u>Family Cerixidae (Genus Sigambra)</u>	Additional comments / observations:		
	Snail		<u>Quite sandy & turbid when disturbed, but clear when settled, lot of leaf debris from deciduous poplars/willows.</u>		
	Copepod				
	Whirligig beetle				
	Water measurer				
	Leech				
Hydra					
Seed shrimp					
Soldier Fly larvae					