

# SOMERSET WATER QUALITY TEST KIT

## TABLE OF RESULTS

Type of water body and where?

Eg. river, tap water

Jukskei River

Note: Some of the questions are not relevant if you are testing tap water

**Pollution**

Answer the following questions:

1. Describe the colour of the water and what it smells like: Changes from day to day. We have observed clear, muddy, cloudy, these conditions. foam, a little oil floating on top.

2. List solid waste items you see:

paper + other litter, plastic, bottles, tins,

3. Do people wash or bathe here?

Yes, further down-stream near Bruma.

4. Are there any dead animals (dogs, birds, frogs etc)?

a dead rat was seen once.

5. Do you see excessive plant growth in the water or algae on the rocks or bank?

No

6. Signs of soil erosion (muddy water)

Yes. Possibly from building site upstream.

7. Is the water:

It sometimes appears Very polluted?  Slightly polluted?  Not at all polluted?

**pH**

Result: 8

Is the water:

Neutral?  Slightly acidic?  Slightly alkaline?

**Temperature**

Site 1:

2.2 °C

Temp:

Site 2:

Temp: \_\_\_\_\_ °C

Difference: \_\_\_\_\_ °C

**Dissolved Oxygen**

Temp: 2.2 °C Not sure of accuracy here.

Dissolved oxygen: 8 ppm

% Saturation 58%

Time: ± 12 noon am/pm

**BOD**

Dissolved Oxygen \_\_\_\_\_ ppm

Difference: \_\_\_\_\_ ppm

**Nitrates**

If there is a presence of nitrates?

What is the reading? 0 ppm

Where do you think the nitrates have come from?

**Coliform Bacteria**

Describe the appearance of the coliform test medium after 44 hours

Not done.

Is total coliform present in the water?

**Turbidity**

On one occasion the 5 numbers can be seen?

5,4,3,2  4,3,2

3,2  2

**Macroinvertebrates (At Gillooly's Farm)**

List the organisms you have found

A large snail

Adult dragonfly.

2 aquatic beetles

Frog spawn

Would you say the water is:

Unpolluted?  Slightly polluted?

Very polluted?

**Hardness**

Hardness reading: \_\_\_\_\_ ppm

Cause of hardness in the water:

**Residual Chlorine**

Residual chlorine reading: \_\_\_\_\_ ppm

Cause of residual chlorine: