Measuring electrical conductivity

UNIT: Micro-Siemens per centimetre (µs/cm)

EQUIPMENT: Electrical Conductivity (EC) meter

1. Turn meter on and lift the lid from the sensor.

2. Calibrate your meter each time. Use the 1.41 solution to do this (this is a solution of 1413 µs/cm). Pour the solution onto the sensor making sure you completely cover it and there are no bubbles.

3. Hold the CAL button. When the 😊 icon stops blinking your calibration value will display. It should read 1413 (+/- 5). If it does not, rinse thoroughly with solution and calibrate again.

4. Rinse the sensor with sample water after calibration.

5. Use the pipette or pour sample solution on the sensor (cover it) and press the MEAS button.

6. The 😊 icon will flash until the result is stable then it will stop flashing and your result will appear.

7. Record your result on the *water quality data sheet* or enter directly into the River Detectives website.

8. Compare your result to the rating chart for your region.

9. After measurement wash your sensor with tap water and turn off.

Notes:
- 'Or' means the salinity level is too high and 'Ur' the level is too low for the EC meter. Contact your coordinator for help
- Do not wipe or push the sensor with force. It may damage the sensor.