**Assembly Instructions text for the WaterScope Prototype**

1. Use sterile tweezers to carefully place the filter in the bottom half of the luer lock.
2. Screw together the luer lock components to secure the filter in place.
3. Attach the luer lock component to the bottom of the syringe
4. Push the bung into the conical flask securely, to create a tight seal.
5. Slot the syringe attached to the luer lock into the bung.
6. Attach the pressure gauge pipe to the vacuum flask.
7. Attach the hand pump pipe to the side of the pressure gauge not already attached to the pump.
8. Add 100ml of sample water to the syringe.
9. Pump the hand pump until the needle rises above 23 inHg.
10. Monitor the pressure gauge to check that the vacuum is being held.   
    If the vacuum dissipates quickly then there is likely to be a leak, and all attachments should be checked to ensure they are secure.   
    If the vacuum dissipates slowly (<3mmHg/min) then pump every minute or so to keep the vacuum topped up.