

(for members room)

## **Appendix 2: Calculation for Retrofitting Existing Dwellings with Water Efficiency Measures**

### **WC**

Current cistern	litres	9
New cistern	litres	5
Flushes frequency	per person per day	8.5
Savings	litres per person per day	34

### **Bath to shower**

Bath capacity	litres	149
Bath to overflow	litres	140
Average bath fill	litres	120
Shower flow	litres per minute	9
Shower duration	minutes	7.5
Bath frequency	per person per day	0.6
Shower frequency	per person per day	1
Bath water usage	litres per person per day	92
Shower water usage	litres per person per day	67.5
Total bath savings	litres per person per day	24.5

### **Total**

Total Saving	litres per person per day	58.5
Average household	people per household	2.4
Total saving	litres per household per day	140.4

### **New Dwelling**

Total water use	litres per person per day	110
Average household size	people per household	2.4
Total water use use	litres per household per day	264

**Retrofits needed for 1 new dwelling**

Number of retrofits needed to counteract 1  
new house  
with 10% buffer

1.9  
**2.1**