



Encouraging our children to shine  
in a caring, creative and  
inspiring environment

16<sup>th</sup> December 2011

Dear Penny

I am pleased to provide the summary requested in respect of the trial we have undertaken on your behalf.

The purpose of the trial was to understand the water saving potential of **Hippo 7** in a busy primary school environment and understand that little or no double flushing or plumbing issues occurred whilst the devices were installed and that it was decided that the overall customer experience was acceptable.

By way of background information Abbeymead Primary School caters for children within the age range 4-11 years old. The school was built 22 years ago and there have been several modifications/extensions since then. We currently have 394 pupils on role. We have 3 staff toilets and 25 pupil toilets.

In addition to being open during the day our school is also used extensively by the local community in the evenings and at weekends, however during the trial period no events were held at the school outside of the standard educational purpose.

The **Hippos** were installed by the caretaker and once the initial instillation manoeuvre had been perfected, they were easy to install and took only a few seconds each. They required no special tools or plumbing expertise.

We currently have 57 full time and part time staff.

On average a pupil will go to toilet at least once per day and an adult twice per day.

Our normal monthly consumption of water is anything between 100 (low usage) to 150 units (high usage). A unit = 1,000 litres.

During the trial period the meter readings were as follows:

28/11/11	First Day of Trial	1706
05/12/11	Start of week 2	1726
12/12/11	Start of week 3	1751

This amounts to 45 units over a two week period/14 days.

We experienced little/no double flushing situations and the Hippo 7 proved to reduce our water usage by an average of 10 – 60 units per month or 10,000 – 60,000 litres.

I trust this information is of assistance to you and the caretaker will continue to obtain meter readings so if you need anymore information from me then please do not hesitate to contact me in the New Year.

Best wishes and happy New Year.

Julie

*Julie Tegg*

Business Manager  
Abbeymead Primary School  
Mead Road  
Abbeymead  
Gloucester GL4 5GF

Tel:01452 371710  
Fax:01452 623857

Conclusions to draw from the data:

We can confirm from this data that given the daily occupancy rate of the building, it is reasonable to conclude that **Hippo 7** is a robust and successful water saving device. In this type of environment, where toilet paper is regularly being fed down the toilet at a larger than average rate and each toilet is only being flushed twice in every 3 uses, **Hippo 7** successfully removed all waste from the toilet bowl with little or no double flushing being required.

	<b>Low Usage</b>	<b>High Usage</b>
Usage per month m3 (historical)	100 (100,000 litres)	150 (150,000 litres)
Usage per trial week m3	20 (20,000 litres)	25 (250,000 litres)
Estimated per month m3 (30.4 average days per month) $20/7 \times 30.4$	86.85 (86,850 litres)	108.57 (108,570 litres)
Assuming the saving is equated to Hippo 7 at 1.85 litres per flush this shows the number of flushes per month	7,108	22,394
Flushes per day	233	736
Average number of flushes per person per day (451 people)	0.5 1 flush for every 2 people per day	1.6 3 flushes for every 2 people per day

(Perhaps it is worth remembering that little boys don't always flush, unless they know the flushes are being counted!)