Capiphon™ Drainage

Continues to Outperform Slotted Pipe

The study is a continuation of that reported at the International Commission on Irrigation & Drainage Conference July 2012. It tracks the drainage from the tank over an 11 day period during which 42.5 mm of rain fell.

Date	Elapsed Time (hr)	Head (mm)	Capiphon Pipe Vol (L)	Flow rate (L/hr))	Capiphon Belt Vol (L)	Flow rate (L/hr))	Slotted Pipe Vol (L)	Flow rate (L/hr))	Rain previous 24 hrs (mm)
22-Sep	0.5	125	0.200	0.400	.058	0.116	0	0.000	24.2
23-Sep	22.0	65	1.220	0.053	1.820	0.086	1.060	0.048	
26-Sep	50.5	8	4.730	0.094	9.180	0.182	3.900	0.077	8.0
27-Sep	25.5	3	0	0.000	2.370	0.093	0	0.000	
28-Sep	21.0	-5	0	0.000	1.570	0.075	0	0.000	1.0
29-Sep	31.0	3	0	0.000	1.520	0.049	0	0.000	6.5
30-Sep	20.0	5	0.070	0.004	1.700	0.085	0	0.000	2.8
01-Oct	26.3	-12	0	0.000	2.090	0.080	0	0.000	
02-Oct	23.8	-30	0	0.000	1.630	0.069	0	0.000	
03-Oct	23.8	-42	0	0.000	1.030	0.043	0	0.000	
04-Oct	21.2	-45	0	0.000	0.460	0.022	0	0.000	
Total Volume Collected (L)			**6.220**		**23.518**		**4.960**		**42.5**

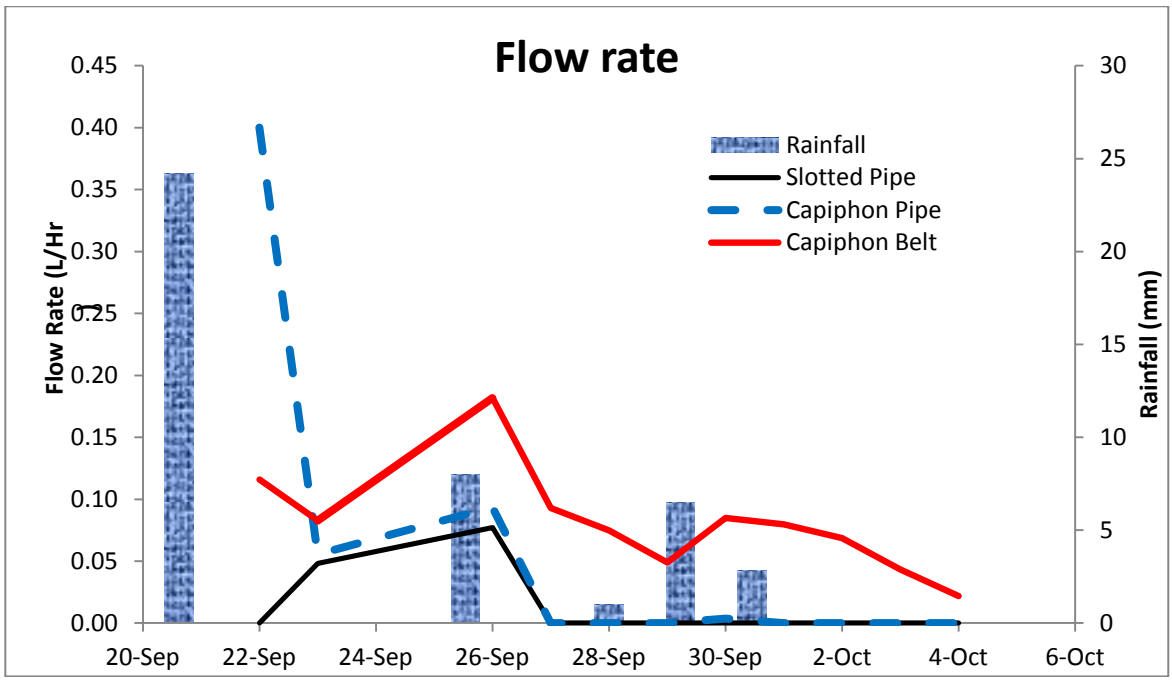
Notes:

- A negative head means that water is being drawn up from below the Capiphon by syphoning.
- Total flow recorded was 34.6 litres.
- The total rainfall for the period was equivalent to 121 litres entering the tank.
- Evaporation over the same period was equivalent to 81 litres.
- There was some leakage from the tank.

Drainage collected 26 Spetember

The following day

Capiphon™ Drainage



Water began flowing from the Capiphon pipe very early and the initial flow rate was quite high. Capiphon belt began to flow soon after but the flow rate was lower. The flow rate for the Capiphon belt, however, was higher than slotted pipe, and it decreased less over time resulting in a greater accumulated volume drained.

This would indicate that it is an effective strategy to combine both belt and pipe versions of Capiphon to ensure capture of the heavy downpour, as well as to clear the total inundation over time.