

Percolation Test Results

Day 1		Time to Drain 150mm of Water from 300 x 300mm Hole			Vp = $\frac{\text{Average Time}}{150}$
Location	Hole	Start Time	Finish Time	Time s	
Ash Side	1	15.35	17.29	6830	
Ash Side	2	15.26	17.27	7140	
Chamber	3	15.11	16.12	3660	
Chamber*	4	15.39	15.40	60	
RH Side	5	15.19	15.40	2700	
		Average Time		5083	33.89
Day 2					
Ash Side	1	12.49	15.24	5700	
Ash Side	2	12.55	15.23	5280	
Chamber	3	12.58	15.15	4620	
Chamber*	4	13.00	13.02	120	
RH Side	5	13.03	13.58	3300	
		Average Time		4725	31.5
Day 3					
Ash Side	1	10.14	11.46	5520	
Ash Side	2	10.18	11.47	5340	
Chamber	3	10.25	11.38	4380	
Chamber*	4	10.28	10.30	120	
RH Side	5	10.32	11.25	3180	
		Average Time		4605	30.7

Average Vp = 32.03s

The mean occupancy rate of 33 people gives this size

Area of soakaway = $p \times Vp \times 0.25$ where p = number of people served by the septic tank

$$= 33 \times 30.7 \times 0.25$$

$$= 248 \text{ m}^2$$