Soakwell Capacity

city of swan

Volume Required = 0.0122A_c cu m   where A_c is the impervious (roof) area in square metres for single residential development

Volume Required = 0.0159A_c cu m   where A_c is the impervious area in square metres for Industrial/Commercial/High Density Residential developments

Soakwell Size			Low Density Reisdential Impervious area served (m2)	Industrial / Commercial / High Density Residential Impervious area served (m2)
Diameter (m)	Depth (m)	Volume (m3)		
0.6	0.6	0.170	13.9	10.7
0.6	1.2	0.339	27.8	21.3
0.9	0.6	0.382	31.3	24.0
0.9	0.9	0.573	46.9	36.0
0.9	1.8	1.145	93.9	72.0
1.05	1.05	0.909	74.5	57.2
1.2	1.2	1.357	111.2	85.4
1.5	1.2	2.121	173.8	133.4
1.8	1.2	3.054	250.3	192.1
1.8	1.8	4.580	375.4	288.1

Notes:

1. The values are based on 1 in 5 year storm (18.13%AEP) for.single residential deveelopment and 1 in 10 year storm (9.52%AEP) for industrial/commercail/high density resodential development. It is assumed that the soakwell base is at least 2m above the groundwater table in clean sand.

2. Capacity will be reduced accordingly where the groundwater table rises above the base, in which case soakwells may not be suitable.

3. This table is provided as a guide only and Council is not responsible for any damages from flooding due to the use of the values given in this table .

4. Values are based on concrete soakwells with angled holes around the sides (Concrete Louvred Soakwells).

5. A minimum clearance of 1.8m is required from soakwells to buildings and property boundaries.

6. Soakwells must be located at the front of the property where possible.

Revison May 2021