

Site Area (Ha.)	1.44
Hardstanding Area (Ha.)	0.71
Landscaping Area (Ha.)	0.73
Effective Hardstanding	0.783
Run Off per mm (m3)	7.83
Predevelopment Run Off Rate L/S	6.00

Attenuation Calculation for 1 in 30 Year Storm

Event

<u>Time</u> <u>(hrs)</u>	<u>Rainfall</u> <u>(mm)</u>	<u>In</u> <u>(m3)</u>	<u>Out</u> <u>(m3)</u>	<u>Storage</u> <u>(m3)</u>
0.25	16.56	129.665	5.400	124.265
0.50	21.84	171.007	10.800	160.207
1.00	28.68	224.564	21.600	202.964
2	37.80	295.974	43.200	252.774
3	44.28	346.712	64.800	281.912
4	50.88	398.390	86.400	311.990
6	58.20	455.706	129.600	326.106
8	65.16	510.203	172.800	337.403
12	76.56	599.465	259.200	340.265
18	89.40	700.002	388.800	311.202
24	99.72	780.808	518.400	262.408
36	116.46	911.882	777.600	134.282
48	130.02	1018.057	1036.800	-18.743

The storage volume required to attenuate a 1 in 30 year post development rainfall event to a 1 in 2 year pre development greenfield run off rate is 340m3 including a 20% allowance for climatic change

Porous driveway area included in the landscape area as porous paving construction run off replicates greenfield run off