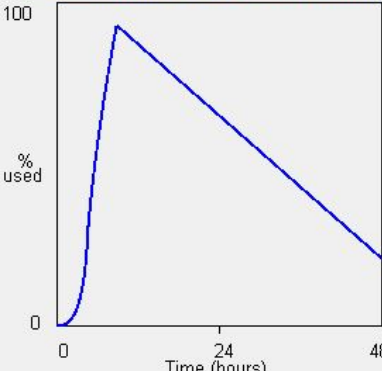




Project:	117 Elmer Road
Ref:	542/V3
Completed by:	L S
Checked by:	J P CEng MICE
Date:	12/07/2024
Client:	Martin Naldrett
Site Address:	117 Elmer Rd, PO22 6LH

Catchment Details			
Buildings	80	m²	x 100 %
Dense surfacing	0	m²	X 100 %
Urban Creep	10%		
Effective Area	88	m²	
Rainfall Details - FEH Method:			
Return Period	100 Years		
Climate Change Factor	45 %		
50% Summer Storm Profile			
Duration	Intensity		Required storage (m3)
	mm	mm/hr	
5 min	19.9	238.4	1.734
10 min	29.2	175.2	2.542
15 min	36.6	146.3	3.177
30 min	48.8	97.7	4.261
45 min	56.8	75.7	4.875
60 min	62.6	62.6	5.347
2 hours	75	37.5	6.273
6 hours	94.8	15.8	7.358
24 hours	118.2	4.9	6.480

Storage Details (assumed)		
Tank Size	2.4 x 4.2 x 0.84m	
@95% void		
Outflow Details		
Infiltration Rate	0.0295	m/hr
Attenuation Control	N/A	N/A
Discharge Rate	N/A	N/A
Results		
Outcome:		Pass
Critical Storm Duration	8.87	hours
Hmax	0.777	m
Required Volume	7.438	m³
Time to empty half	22.7	hrs
Tank Behaviour in the Design Storm 		

SuDS Maintenance

The actual maintenance regime, plans, and method statements will be the responsibility of the Management Company of the development. Included within this section is guidance on how the maintenance should be carried out, along with an example Method Statement.

Maintenance Plan:

- Regular inspection and cleaning of catchment gutters reduces the likelihood of contamination, typically every 3 to 6 months.
- Regular jet-washing of permeable block paving can be used to keep joints and voids clear, this should be carried out every 6 months.
- The catch pit chamber/leaf catcher and flow control chamber should be emptied every 3 months, and after every large storm event to ensure that there are no blockages.
- The inlets and outlets to the rainwater harvesting tanks should be checked every 3 months, and after every large storm event to ensure that there are no blockages

Method Statement

Below is a typical method statement, and something similar should be adopted by the Management Company.

- All operatives must wear suitable PPE including high visibility clothing
- Traffic management to be installed in accordance with the Safety at Street Works and Road Works Code of Practice
- Using hand tools only, remove any debris from gully gratings and/or drainage channels
- Use hand tools to reform channel if necessary to facilitate flow of surface water • Remove traffic management Additional notes:
- Do not attempt to lift any ironwork
- Do not attempt to use any mechanical equipment on this drainage maintenance activity