

INFILTRATION STORAGE ESTIMATE

**PROPOSED RESIDENTIAL DEVELOPMENT AT ST
CRISPIN'S CHURCH, CHURCH PLACE, PULBOROUGH**

REFERENCE: LDS593
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REVISIONS:

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1	18/06/2026	Original Issue

INTRODUCTION:

LATHAMDEVSVCS have produced these calculations using Causeway Flow's soakaway 'Storage Estimate' function to determine the volume of infiltration storage required to discharge surface water arising from the proposed development at the agreed infiltration rate determined within the approved Drainage Strategy by Motion dated 26th July 2022.

Note that within the design settings, LATHAMDEVSVCS have input site-specific FEH-22 point descriptors downloaded from fehweb.ceh.ac.uk.

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1. DESIGN SETTINGS

Rainfall Methodology	FEH-22	Note: FEH point descriptors can be downloaded from fehweb.ceh.ac.uk Only XML file format can be used FEH-22 is the current FEH data and this should be used for new development ReFH2 legacy – Doesn't contain the new BFIHOST19 descriptor ReFH2 – Contains the new BFIHOST19 descriptor	
Return Period (years)	100		
Additional Flow (%)	45		
FEH filename	C:\Latham Development S		Load
CV	0.750		
Time of Entry (mins)	5.00		
Maximum Time of Concentration (mins)	30.00		
Maximum Rainfall (mm/hr)	50.0		
Minimum Velocity (m/s)	1.00		
Connection Type	Level Soffits		
Minimum Backdrop Height (m)	0.200		
Preferred Cover Depth (m)	1.200		
Include Intermediate Ground	☒		
Enforce best practice design rules	☒		

2. STORAGE ESTIMATE

Return Period (years)	100	OK
Climate Change (%)	45	
Impermeable Area (ha)	0.084	Update
Peak Discharge (l/s)	0.000	Calc
Infiltration Coefficient (m/hr) (leave blank if no infiltration)	0.01800	
Required Storage (m³)	Calc	
from	103	
to	103	
With infiltration (m³)		
from	39	
to	93	

3. CONCLUSION

In line with the upper bracket of the estimated storage requirement (with infiltration), the proposed surface water drainage system shall be designed with a minimum of 93m³ of infiltration storage.