ARCH ASSOCIATES

WATER TREATMENT ASSESSMENT

WHITE MILL HOUSE
ARUNDEL

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WATER TREATMENT ASSESSMENT

for

WHITE MILL HOUSE
ARUNDEL

Client:
Chris Monk

ISSUE		A	B	C
Issued By	T Ashby			
Date	17.07.2025			
Purpose	Information			
Approved By	CH			

Project No. AAL402

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1.0 Water Treatment Assessment

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SuDS Treatment Train Components

As shown on the proposed drainage layout, the rainwater falling on the roof of White Mill House will be collected and directed via gravity to the proposed soakaway. Rainwater falling on the external hard surfacing will infiltrate through the permeable paving subbase.

Based on the guidance in CIRIA C753, the following analysis has been undertaken with the relative mitigation indices for the proposed levels of treatment taken from CIRIA C753 Tables 26.3 (surface waters) and Table 26.4. The resultant assessments, for both the residential roofs and individual property driveways, are summarised within the tables below.

Soakaway Mitigation Index

Element	Pollution Hazard Indices			
	Pollution Hazard Level	Total Suspended Solids	Metals	Hydrocarbons
Residential Roofs	Very Low	0.2	0.2	0.05
	Pollution Mitigation Indices			
Soakaway*		0.6	0.5	0.6
Sufficiency		**Sufficient**	**Sufficient**	**Sufficient**

*Given that the mitigation indices for soakaways is not defined by manufacturers or stated with C753 The SuDS Manual, the values above have been derived from Table 26.4 of The SuDS Manual for a layer of dense vegetation underlain by a soil with good contaminant attenuation potential of at least 300mm in depth.

Permeable Paving Mitigation Index

Element	Pollution Hazard Indices			
	Pollution Hazard Level	Total Suspended Solids	Metals	Hydrocarbons
Individual Property Driveways	Low	0.5	0.4	0.4
	Pollution Mitigation Indices			
Permeable Paving		0.7	0.6	0.7
Sufficiency		**Sufficient**	**Sufficient**	**Sufficient**