

HILL TOP FARM, EARL SHILTON, LEICESTERSHIRE

SUSTAINABLE DRAINAGE OPERATION & MAINTENANCE PLAN

Regular inspections and maintenance are important for the effective operation of all SuDS features. Once the site is developed, all SuDS features should be inspected, cleared of any clogging and litter, tested and any failures rectified. Listed below are the following SuDS features proposed for this project, together with the maintenance requirement recommendations.

Adoptable pipe work (pre-adoption)

The below table provides guidance:

Maintenance Schedule	Required Action	Typical Frequency
Regular Maintenance	Inspect and identify any areas that are not operating correctly. If required, take remedial action.	Monthly for 3 months, then annually
	Remove debris from the catchment surface (where it may cause risks to performance).	Monthly
	Remove sediment from pre-treatment structures and/or internal forebays.	Annually or as required
Remedial actions	Repair/rehabilitate inlets, outlet, overflows and vents	As required
	Inspect/check all inlets, outlets, vents and overflows to ensure that they are in good condition and operating as designed.	Annually
	Survey inside of pipes/manholes for sediment build-up and remove if necessary.	Every 5 years or as required

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Table below provides details for the inspection and maintenance of the SUDS features proposed. Maintenance to adoptable SUDS facilities is to be carried out by adopting NAV company.

Drainage Facility	Operation and Maintenance
Silt Traps, Road Gullies and Linear Drainage Channels	Inspect six-monthly, empty every 12 months and after every major storm or local flood event. Typical expected design life of silt trap is 50 years; however, this could differ from manufacturer.
Flow Control chamber and cellular storage	Inspect twice in first year and after major storm events, desilt as required. Typical expected design life of cellular storage is 50 years; however, this could differ from manufacturer.
Attenuation Basin	Monthly inspections of inlet and outlets for blockages and remove debris, Monthly cutting of grass (during growing season or as required)

All maintenance is to be undertaken in line with the residual risk register by a competent, specialist maintenance company or sub-contractor.

Permeable Block Paving

These areas are to be maintained as per manufacturers specifications and recommendations. They should be protected from silt, sand, compost, mulch, etc

Permeable Block Paving	
Regular Maintenance	Frequency
Cleaning Brush Regularly and removed sweeping from hard surfaces	Monthly or as required. Areas of paving should be inspected after the first heavy rainfall event and every 6 months after installation
Occasional Tasks	Frequency
Permeable pavements Brush and vacuum surface once a year to prevent silt blockage and enhance design life	Annually. After brushing or vacuuming, any missing jointing sand to be replaced up to surface level and vegetative growth removed
Remedial Work	Frequency
Monitor effectiveness of permeable pavement, and when water does not infiltrate immediately advise the client of possible need for reinstatement of top layers or specialist cleaning. Recent experience suggests that Met washing and suction cleaning will substantially reinstate pavement to 90% efficiency	Every ten years, or as required, due to drops in performance, the paving blocks should be lifted, drainage surface inspected and maintained, and the blocks replaced with new jointing sand and only reuse blocks in good condition in line with manufacturers guidance

Maintenance work, the removal of debris and desilting is to be undertaken by a specialist contractor only, in line with the residual risk register. The company who shall be responsible for the drainage system over the duration of the development will be:

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