



Technical Note - 6008/01

Project Title:	Parcel KMF and KMG, Hawkswood, Kingsmere, Bicester, Oxfordshire				
Client:	Linden Homes				
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1.0 SUDS MAINTENANCE PLAN

Cellular Attenuation Storage

- 1.1 A suitable maintenance regime for the systems will comprise of routine inspection and silt removal (as necessary). Inspection should be undertaken using CCTV equipment offered up the inspection tunnels located within the crate system. Camera access can be gained via inspection chambers and inlet pipework located at each end of the tunnels.
- 1.2 Silt removal can be achieved by jetting the inspection tunnels. Jetting should be undertaken in accordance with current jetting guidelines, in particular the Code of Practice for Sewer Jetting published by The Water Research Centre. Jetting at 150bar at 300l/min should be more than adequate in removing any build-up of material within the tunnel. The crate system will take higher pressures. However, unlike regular jetting which relies heavily on high pressure to remove hardened deposits on the inner bore of pipes, effective cleansing of a crate system relies more on the delivery flow rate to flush solids back through the system.
- 1.3 A standard jet head with rear facing nozzles should be used. The head should be fed to the far end of the crate tunnel via the nearest inspection chamber, activated and retracted. As the nozzle is removed, debris will be swept back into the inspection chamber where it can then be removed with the use of a standard gully sucker. This method will ensure the effective removal of gross solids (carrier bags, cans, leaf litter etc.) from the system. Whilst 100% removal cannot be guaranteed, it has been shown that this jetting method will also remove an element of finer material which would otherwise be 'lost' within the system.

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Table 1.1: Maintenance Schedule for Cellular Attenuation Storage

Schedule	Maintenance Requirement	Frequency
Regular	Inspect and identify any areas that are not operating correctly	Monthly for 3 months then annually
	Remove debris from the catchment surface	Monthly
	Remove sediment from pre-treatment structures and internal forebays	Annually or as required
Remedial	Repair and rehabilitate inlets, outlets, overflows and vents	As required
Monitoring	Inspect inlets, outlets, overflows and vents to ensure they are operating as designed	Annually
	Survey inside of tank for sediment build-up and remove as necessary	Every 5 years or as required

Pipework and Catchpits

- 1.5 It is not envisaged that silt build up within the pipework systems will require a rigorous maintenance regime so long as silt is removed from upstream catch pits on a regular basis. Notwithstanding this, a suitable maintenance regime for the systems will comprise of routine inspection (every six months) and silt removal (as necessary).

Table 1.2: Maintenance Schedule for Pipework and Catchpits

Schedule	Maintenance Requirement	Frequency
Regular	<ul style="list-style-type: none"> ▪ Inspect for accumulation of silt ▪ Inspect for debris and litter ▪ Inspect inlets and outlets for blockages 	Every six months
Occasional	<ul style="list-style-type: none"> ▪ Remove debris and litter ▪ Remove silt 	As required

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