

23001 - Drainage Maintenance Schedule

A sustainable drainage system with attenuation is to be installed at the site, in accordance with local authority requirements.

This has necessitated the installation of SuDS filter drains and a detention basin which will be maintained by the developer, Zenobe.

Areas of weed growth should be removed or managed safely using an appropriate herbicide applied into the weeds rather than sprayed, as required. Any areas of soft landscaping which, through vegetation maintenance or soil slip, have been raised to within 50mm of the paving level should be remediated, as required.

The general operation and maintenance requirements for filter drains as reflected in the CiRIA C753 Manual are shown below:

TABLE 16.1 Operation and maintenance requirements for filter drains

Maintenance schedule	Required action	Typical frequency
Regular maintenance	Remove litter (including leaf litter) and debris from filter drain surface, access chambers and pre-treatment devices	Monthly (or as required)
	Inspect filter drain surface, inlet/outlet pipework and control systems for blockages, clogging, standing water and structural damage	Monthly
	Inspect pre-treatment systems, inlets and perforated pipework for silt accumulation, and establish appropriate silt removal frequencies	Six monthly
	Remove sediment from pre-treatment devices	Six monthly, or as required
Occasional maintenance	Remove or control tree roots where they are encroaching the sides of the filter drain, using recommended methods (eg NJUG, 2007 or BS 3998:2010)	As required
	At locations with high pollution loads, remove surface geotextile and replace, and wash or replace overlying filter medium	Five yearly, or as required
	Clear perforated pipework of blockages	As required

Similarly, the recommendations for operation and maintenance requirements for detention basins in accordance with the CiRIA C753 Manual are shown below:

TABLE 22.1 Operation and maintenance requirements for detention basins

Maintenance schedule	Required action	Typical frequency
Regular maintenance	Remove litter and debris	Monthly
	Cut grass – for spillways and access routes	Monthly (during growing season), or as required
	Cut grass – meadow grass in and around basin	Half yearly (spring – before nesting season, and autumn)
	Manage other vegetation and remove nuisance plants	Monthly (at start, then as required)
	Inspect inlets, outlets and overflows for blockages, and clear if required.	Monthly
	Inspect banksides, structures, pipework etc for evidence of physical damage	Monthly
	Inspect inlets and facility surface for silt accumulation. Establish appropriate silt removal frequencies.	Monthly (for first year), then annually or as required
	Check any penstocks and other mechanical devices	Annually
	Tidy all dead growth before start of growing season	Annually
	Remove sediment from inlets, outlet and forebay	Annually (or as required)
	Manage wetland plants in outlet pool – where provided	Annually (as set out in Chapter 23)
Occasional maintenance	Reseed areas of poor vegetation growth	As required
	Prune and trim any trees and remove cuttings	Every 2 years, or as required
	Remove sediment from inlets, outlets, forebay and main basin when required	Every 5 years, or as required (likely to be minimal requirements where effective upstream source control is provided)
Remedial actions	Repair erosion or other damage by reseedling or re-turfing	As required
	Realignment of rip-rap	As required
	Repair/rehabilitation of inlets, outlets and overflows	As required
	Relevel uneven surfaces and reinstate design levels	As required

It is recommended that following installation a monitoring regime is carried out to establish if any more frequent maintenance is required, than has been described above.

Then once every three months after installation or within 48 hours after any large storms within the first six months following installation, inspect for evidence of poor operation. If required, take remedial action as noted above.

Annually, inspect silt accumulation rates to establish appropriate brushing frequencies and monitor the inspection chambers.

Manholes and catchpits including all inlets, outlets and overflows should be inspected every 6 months to ensure that they are in good condition and operating as designed and cleaned or unblocked if necessary.

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Any debris on the surface of the catchment should be removed monthly, or as required, to avoid causing risks to performance. Similarly, any sediment seen to be within pre-treatment structures should be removed, annually or as required.

Entry into any manholes, underground drawpits, etc, should only be undertaken by persons fully trained by a recognised company, and hold the relevant certification with regard to being able to work in confined spaces.

Cleaning chemicals or compounds should be used in line with the manufacturer's instructions and then only by operatives trained to use such products. Method statements should be provided by any companies or persons intending to carry out such maintenance works as described above.

The developer (Zenobe) will be the Maintenance Organisation responsible for maintaining the non-adopted SUDS apparatus on site.

The contact details for Zenobe UK are:

Zenobē London Headquarters

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Renfrewshire Council will be responsible for maintenance of all other, external, drainage which is not under private ownership.

Renfrewshire Council contact details are:

Tel: Roads Maintenance Team – 0300 300 0380