

WEDGEWOOD ASSOCIATES

28 Winchester Road Romsey Hampshire S051 8AA
Telephone: 01794 515120 Facsimile: 01794 515241 E-mail: design@wedgewoodassociates.co.uk

HASKINS GARDEN CENTRE – ANGMERING

Sustainable Drainage Operation and Maintenance Activities

1. Maintenance General

All maintenance will be the responsibility of the Garden Centre who should delegate a member of staff with day to day responsibility and authority for carrying out inspections and organising maintenance matters.

The nominated individual is to maintain a log on site to record all inspection and maintenance activities and events.

BALANCING POND

2. Inspection

Inspection should be made after every significant storm during the first two years of operation to ensure that the installation is functioning properly. It is anticipated that this will require four inspections per year.

After this initial period, when satisfactory performance has been confirmed, then annual inspection is anticipated.

The inspection is to include the following items:-

- a) Is there standing water in the pond more than 24 hours after a storm? (This could indicate blockage of the outlet by trash or sediment. Visually inspect the outlet structure for debris or blockage).
- b) Is the pond always dry or relatively dry within 24 hours of a storm? (This could indicate a blockage of the inlet or too large of a water quality/erosion control outlet. Visually inspect the inlet structure for debris or blockage).
- c) Is there a visible accumulation of sediment in the bottom of the pond or channel or around the high water line of the pond? (This will indicate the need for sediment removal).

3. Landscape Management

The grass embankments either side of the central concrete channel will be sown with a meadow seed mix for wetlands including native grasses and perennial/annual wild flowers.

The first year's management after sowing will concentrate on the control of the first flush of pernicious annual weeds by topping or initial mowing.

After the sown grasses and wildflowers have seeded in the summer a first cut will be undertaken with the cuttings removed from site.

After establishment the annual maintenance will include a summer hay cut followed by an autumn cut and when required a spring cut.

Areas of seeded grass to be inspected annually and all areas where growth has failed or ground subsided are to be re-established.

All grass cutting to be carried out parallel to the central channel for safety reasons.

Weed control is to be by cutting.

The use of fertiliser should be limited to minimise the nutrient loadings to the downstream receiving watercourse.

4. Sediment Removal

To be arranged as inspection noted previously dictates. It is anticipated that the sediment will be disposed of on site. The areas that are used should be landscaped to provide a natural appearance after each sediment removal operation.

Any sediment which it is proposed to dispose of, off site is to be tested for contamination prior to disposal.

5. Access

A maintenance route should be established to allow vehicles to gain access for maintenance purposes. Such access is to be inspected and maintained annually.

6. Fencing

A secure fence is to be established prior to operation of the installation and to be inspected and maintained daily.

7. Other

Should any evidence of spills and oil/grease contamination be observed during inspection or maintenance operations then the cause of such should be immediately established and rectified without delay.

PERMEABLE PAVED AREAS TO CAR PARKING AREAS

8. Routine Maintenance

The surface blocks require routine maintenance and the surface should be brushed at least twice a year with a mechanical suction brush. It is recommended that this should be carried out in the spring and after leaf fall in autumn.

9. Long Term Maintenance

Ultimately, perhaps after 25 years or more areas of the laying course may become filled with silts and toxins.

If this occurs then the surface blocks should be uplifted and the affected areas of laying course material and geo textile disposed of.

The existing sub base can be left in situ.

Fresh geo textile and laying course stone should be installed and the existing surface blocks re-used.

Any materials which it is proposed to dispose of, off site are to be tested for contamination prior to disposal.

CELLULAR TANK SOAKAWAY

10. Design issues

Cellular soakaway system such as Hydro-International Stormblock is to be provided with inspection/maintenance tunnels within the cellular crates to allow internal inspection via a camera and flushing through when necessary.

Catchpit chambers are to be constructed immediately upstream of all inlets to the soakaway system to reduce the amount of silt entering the installation. The collection sumps of the catchpits should not be allowed to overfill as this will lead to silt carry over into the cellular soakaway crates.

11. Routine Maintenance

It is recommended that the system should be inspected no less frequently than at monthly intervals for the first three months and thereafter at six monthly intervals. In addition it is suggested that the installation should be inspected following the first infiltration event, whenever this should occur post installation. As all schemes are different individual maintenance schedules should be drawn up using the information obtained from the initial inspections.

More regular inspections may be required should the catchpits fill more frequently, and/or if initial inspections reveal that maintenance/cleaning will be required more regularly than at six month intervals.

Silt /sediment removal is to be arranged as the inspection noted previously dictates. It is anticipated that the sediment will be disposed of on site. The areas that are used should be landscaped to provide a natural appearance after each sediment removal operation.

Any sediment which it is proposed to dispose of, off site is to be tested for contamination prior to disposal.

COW LANE WORKS

12. Initial Maintenance

The culvert under Old South Worthing Road, the two 600mm downstream culverts under the railway and the associated spillway to be cleansed as far as possible of any accretions of silt and the spillways overgrown surrounding vegetation cut down.

15. Routine Maintenance

Subject to agreement with West Sussex Highways. To be advised.