

**PROPOSED DEVELOPMENT AT
LAND SOUTH OF WANDLEYS LANE
EASTERGATE
CHICHESTER
WEST SUSSEX
PO20 3SE**

SuDS Management & Maintenance Plan

For:

IMPERIAL HOMES

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1. Introduction

- 1.1. This document has been prepared by Cowan Consultancy Limited (CCL) on behalf of Imperial Homes Ltd for the development at Land South of Wandleys Lane, Eastergate, Chichester, West Sussex.
- 1.2. This document sets out the principles for the long-term management and maintenance of the proposed surface water Sustainable Drainage Systems (SuDS) installed at the residential development.
- 1.3. The purpose of this document is to ensure that the Management Company and/or homeowner entrusted with the inspection and maintenance of the SuDS will adopt the measures and programme set in this document to ensure the optimum operation of the surface water drainage network. The SuDS are to be continuously maintained over the lifetime of the development to prevent the increased risk of flooding both on and off site.
- 1.4. The guidance notes here provided have been comprised of and are directly referenced from the latest technical SuDS guidance within the CIRIA C753 Report *The SuDS Manual* (2015) and other applicable guidance. This document sets out specific sections applicable to the relevant SuDS type itemising:
 1. A description of the SuDS component and its use;
 2. The maintenance requirements and frequencies; and
 3. The inspection requirements and frequencies.
- 1.5. The activities listed are generic to the relative SuDS types and represent the minimum maintenance and inspection requirements, however additional tasks or varied maintenance frequency may be instructed by the maintenance company as required. Rubbish and debris removal is also an integral part of SuDS maintenance, especially with regards to surface features and the reduction of the risks of inlet and outlet blockages.
- 1.6. Specific maintenance needs of the SuDS elements should be monitored, and maintenance schedules adjusted to suit requirements.
- 1.7. All those responsible for maintenance should follow relevant health and safety legislation for all activities listed within this report (including lone working, if relevant) and risk assessments should always be undertaken.
- 1.8. This report is to read in conjunction with CCL drawings 476988-501, 476988-911 & 476988-912
- 1.9. There are three categories of maintenance activities referred to in this report:

• **Regular maintenance** (including inspections and monitoring) – consisting of basic tasks done on a frequent and predictable schedule, including inspections and monitoring, silt or oil removal if required more frequently than once per year, vegetation management, rubbish and debris removal, and sweeping of surfaces. Regular maintenance/inspections of SuDS will help to:

- determine optimum future maintenance;
- establish ongoing hydraulic, water quality, amenity and biodiversity performance of the system; and
- allow for the identification of potential performance failures, such as blockage, reduced infiltration and poor water quality resulting from lack of maintenance.

• **Occasional maintenance** – comprising tasks that are likely to be required periodically, but on a much less frequent and predictable basis than the routine tasks such as sediment management/removal; and

• **Remedial maintenance** – comprising of intermittent tasks that may be required to rectify faults associated with the system, although the likelihood of faults can be minimised by regular and adequate maintenance activities. Remedial maintenance is likely to comprise of activities such as:

- erosion repairs which can include inlets and outlets;
- reinstatement or realignment of edgings, barriers, rip-rap or other erosion control;
- infiltration surface rehabilitation;
- replacement of blocked filter materials/fabrics;
- construction stage sediment removal (although this activity should have been undertaken before the start of the maintenance contract); and
- system rehabilitation (although unlikely) immediately following a pollution event.

Remedial activities are not expected to be required for all systems, however, for the purpose of estimating whole life maintenance costs, a contingency sum of 15–20% should be added to the annual regular and occasional maintenance costs to cover the risk of these activities being required. Where remedial work is found to be necessary, it is likely to be due to site-specific characteristics or unforeseen events, and as such timings are difficult to predict.

1.10. During the first year of operation inspections should usually be carried out at least monthly to all types of SuDS, and after significant storm events, to ensure that the system is functioning as designed and that no damage is evident.

1.11. Upon completion of the development, a Management Company will be formed, with residents of the development comprising the board of directors. The Management Company will appoint a managing agent (Oyster Estates) who will be responsible for maintaining all communal aspects of the development, including SuDS. The obligations of the Management Company will be funded by an annual contribution from the residents of the development. This manual will form part of the brief provided to the management agents, who will use it to calculate fees which will be paid by residents.

- 1.12. At the end of the manufacturer's recommended design life for all SuDS components they shall be replaced at the Management Company's expense to the satisfaction of the Planning Authority.

2. SuDS Layout and Design

SuDS are an environmentally friendly approach to managing rainfall through the use of landscape features to conceal the surface water and its surroundings. The use of SuDS aims to: control the flow, volume and frequency of water leaving a development area; prevent pollution by intercepting silt and cleaning runoff from hard surfaces; provide attractive surroundings for the community, and; create, whenever possible, opportunities for wildlife.

The SuDS at the Land South of Wandleys Lane, have been designed to prevent flooding within the proposed development and surrounding areas, and control discharge via underground drainage systems. Due to the nature of the proposed development site, special attention must be paid to the proposed drainage strategy to manage the quality of the site runoff and prevent pollution as much as reasonably practicable.

Thus, the proposed surface water drainage allows for the attenuation and discharge of the run-off event of a 1-in-100 year storm for the site (plus a 10% allowance for urban creep and a 45% allowance for climate change).

The new areas of permeable Access Road / Driveway are to have a graded aggregate Type 3 sub-base. The voids within the sub-base will provide attenuation to storm water whilst it infiltrates into the ground below..

As well as providing storm water storage, the permeable build-up has been incorporated into the design to ensure the water quality entering the underlying soil is acceptable.

Run-off from the roofs is drained direct to the domestic drainage system within each curtilage and is piped into the granular sub-base of the Access Road areas via diffuser units / pipes. Proceeding each connection into the sub-base attenuation, is a silt trap inspection chamber with minimum 300mm sump.

The surface water from the impermeable property Driveways is to be collected by gulleys and shall discharge into the granular sub-base of the Access Road.

The permeable Access Road areas are to be maintained by the management company, refer to paragraph 1.11.

The impermeable property Driveways are to be the responsibility of the individual property owners.

All domestic drainage services the roof run-off within the individual property curtilage is to be the responsibility of the individual property owners.

3. SuDS Maintenance and Management

4.1. Permeable Paving

- 4.1.1. Regular inspection and maintenance are required to maintain the effective operation permeable paving requires and to ensure continuing operation to design performance standards.
- 4.1.2. After construction, before hand over to the client, the pavement should be inspected for clogging, litter, weeds and water ponding.
- 4.1.3. After the handover the pavement should be inspected on regular basis, particularly during and after heavy rainfall to ascertain the effective operation and to identify any performance issues.
- 4.1.4. Silt and sediments removal should be carried out regularly to preserve and maintain pavement infiltration capacity.
- 4.1.5. Brushing and suction cleaning should be used for regular sweeping. Care should be taken whilst vacuuming to avoid the removal of jointing material.
- 4.1.6. In case of any blockage or clogging of the paving surface a specialist sweeper with water jetting and oscillating and rotating brushes may be required.
- 4.1.7. Table 3.2 provides guidance on the type of operational and maintenance requirements that may be appropriate. The list of actions is not exhaustive and some actions may not always be required.
- 4.1.8. Specific maintenance needs for block permeable paving should be monitored, and maintenance schedules adjusted to suit site requirements.
- 4.1.9. Maintenance responsibility for systems should be placed with a responsible organisation such as a management company.

Table 3.2 – Permeable Paving Key operation and Maintenance Requirements

Maintenance Schedule	Required action	Typical frequency
Regular maintenance	Brushing and vacuuming (standard cosmetic sweep over whole surface)	Annually, after autumn leaf fall, or reduced frequency as required, based on site-specific observations of clogging or manufacturer's recommendations
Occasional maintenance	Stabilise and mow contributing and adjacent areas	As required
	Removal of weeds or management using glyphosate applied directly into the weeds by an applicator rather than spraying	As required – once per year on less frequently used pavements
Remedial actions	Remedial work to any depressions, rutting and cracked or broken blocks considered detrimental to the structural performance or a hazard to users, and replace lost jointing material	As required

	Rehabilitation of surface and upper substructure by remedial sweeping	Every 10 to 15 years or as required (if infiltration performance is reduced due to significant clogging)
Monitoring	Initial inspection	Monthly for three months after installation
	Inspect for evidence of poor operation and/or weed growth – if required, take remedial action	Three-monthly, 48 h after large storms in first six months
	Inspect silt accumulation rates and establish appropriate brushing frequencies	Annually
	Monitor inspection chambers	Annually

4.2. *Silt Traps & Catchpits / Gulleys*

- 4.2.1. Silt traps and catchpits are circular or rectangular manholes and /or chambers with a sump in them to collect suspended solids.
- 4.2.2. Some chambers have removeable silt buckets to assist with the removal of accumulated silt deposits. Catchpits are usually concrete ring or segment structures and silt traps preformed plastic chambers.
- 4.2.3. Regular inspection and maintenance is required to ensure the effective long-term operation of below ground silt traps and catchpits systems.
- 4.2.4. Maintenance responsibility for systems should be placed with a responsible organisation.
- 4.2.5. Maintenance requirements are described in the table below.
- 4.2.6. Specific maintenance needs of the system should be monitored, and maintenance schedules adjusted to suit requirements.

Maintenance Schedule	Required Action	Recommended Frequency
Regular maintenance	Inspect and identify any areas that are not operating correctly. If required, take remedial action.	Monthly for 3 months, then six monthly
	Debris removal from catchment surface (where may cause risks to performance)	Monthly
	Remove sediment and oil deposits from all trapped gullies.	Annually, or as required.
	Remove sediment structures upstream of the cellular storage tanks.	Annually, or as required.
Remedial actions	Repair/rehabilitation of inlets, outlets, overflows and vents.	As required
Monitoring	Inspect/check all inlets, outlets, vents and overflows to ensure that they are in good condition and operating as designed.	Annually and after large storms

5 References

- CIRIA C753 Report *The SuDS Manual* (2015) RP992 ISBN: 978-0-86017-759-3

In the event of concern over any matter with regards to the management and maintenance of the drainage systems please contact:

Oyster Estates UK Ltd.



Who is responsible for the post development Maintenance and Management Regime of the Development.