

Application N: H/23/94973

Address: 18 Crowsport, Hamble SO31 4HG

Further to our planning permission being granted please find below details of our sustainable disposal of surface water from the development.

Current Situation:

Currently all rainwater drainage from the property that is collected via guttering is drained from the site via the connected drainage.

Percolation Test

An exploratory percolation test was conducted in the position of the proposed soakaway.



The initial percolation test showed a drop of 24mm between the two times:

5220 secs -> drop of 24mm

Vp of 218.50

A Vp of over 100 would indicate that the current ground is not likely to be suitable for a soakaway and is likely why the current property drains into the mains drainage.

By incorporating rainwater harvesting techniques, we can reduce water consumption, minimize strain on public drainage systems, and contribute to a more eco-friendly environment.

Rainwater Harvesting System Installation:

- a. Roof Gutters and Downspouts: Install high-quality gutters and downspouts along the roofline to collect rainwater efficiently.
- b. Rainwater Storage Tanks: Place 5000L rainwater storage tanks on the property to store the collected rainwater.
- c. Filtration System: Implement a filtration system to remove debris and contaminants from the collected rainwater, ensuring the stored water remains clean and safe for various uses.

On-Site Water Usage:

- a. Irrigation: Utilize the harvested rainwater for garden and landscape irrigation, reducing the demand for potable water and conserving resources.
- b. Toilet Flushing: Connect a separate plumbing system to use rainwater for flushing toilets, thus reducing the consumption of treated water for non-potable purposes.
- c. Laundry: Integrate rainwater usage for laundry purposes, considering appropriate filtration and treatment to maintain the quality of the harvested water.
- d. Cleaning and Outdoor Use: Encourage residents to use rainwater for outdoor cleaning tasks such as washing cars or outdoor furniture.

Overflow Management:

- a. Overflow Diversion: In case the rainwater storage tank reaches capacity, set up a system to divert excess rainwater into the current drainage connection.
- b. Permeable Surfaces: The current garden is laid to lawn, and this will remain (please see landscape plan). Planned hard standing for driveways and paths will utilise the existing block paving that exists on site. This provides a permeable surface to control surface drainage.