As discussed today the additional information details the arrangements for the rainwater and greywater harvesting system. This additional information addresses most of the issues raised in my consultation response.
However there are a couple of matters that need to be addressed by the applicant.

The first is the proposed use of untreated grey water for washing machines. This is not acceptable as the DWI technical guidance advises that the private water supply regulations apply to:

"Water either in its original state or after treatment, intended for drinking, cooking, food preparation or other domestic purposes, regardless of its origin and whether it is supplied from a distribution network, from a tanker, or in bottles or containers.*

**The term 'domestic purposes' is defined in section 218 of the Water Industry Act 1991, as drinking, washing, cooking, central heating and sanitary purposes*.*

***The term 'sanitary purposes' includes washing/bathing/showering, laundry and toilet flushing.*

A supply must therefore not represent a danger to human health throughout a premise where the water is used in multiple rooms or buildings for any domestic purposes, including sanitary purposes, as defined above."

Although the DWI has adopted a reduced risk assessment for rainwater used exclusively for toilet flushing, the use of a Hydraloop system to filter the greywater will not meet the requirement for greywater to be treated to a potable standard if this is to be used for laundry purposes.

The second issue is that no reference is made to management of first flush rainwater after period without rain. I note the comments from the applicant in their email of the 25th September 2024 that:

"A first flush filter can be used on the inlet of the downpipes. However as this is not popular in the UK (they don't work well with drizzle) it will need to be tested before long term application."

Further Information should be provided on how contamination of the system with first flush water will be avoided.

If you are minded to approve the application I would recommend that the following conditions are applied:

- Prior to commencement of development full details of the rainwater harvesting scheme shall be submitted to and approved in writing by the local planning authority. The scheme shall include:
  - Detail on the likely contaminants associated with the rainwater harvesting system,
  - Detail on the type of treatment that will be installed on the supply with information clearly indicating that it is appropriate for the amount of water being used and the likely contaminants.
  - Detail on the proposed sampling and testing regime, undertaken in accordance with Private Water Supplies (England) Regulations 2016 (or subsequent superseding equivalent), and taking into account the likely contaminants, as detailed above, along with detail on how any failure of any samples will be investigated and managed.
  - Detail on the maintenance, servicing and cleaning of the tanks, water treatment equipment, pumps, all pipework etc for the lifetime of the development along with regularity of servicing/maintenance and clarification what steps will be taken in the event of

equipment failure. This should include any re-activation of the system after it has been out of use due to lack of rainfall/use.
- Details, including a plan or schematic, showing the supply – including a site plan and/or schematic showing location of source, chambers, tanks, distribution network including valves, pipes, consumer premises and means to record the total water consumption of each unit
- Detail on the continuity of supply during dry periods extending beyond 35 days.
- Arrangements for keeping written records of all sampling, results of analysis, inspection, cleaning, and maintenance

- All works of demolition, construction and ancillary activities, including deliveries and dispatch, shall be restricted to 08:00-18:00 hours on Monday to Friday, from 08:00 to 13:00 hours on Saturdays and at no time on Sundays or Bank Holidays.

Regards

Lee

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