From: Lee.Money <Lee.Money@horsham.gov.uk>
Sent: 07 February 2025 15:53:15 UTC+00:00
To: "Hannah.Darley" <Hannah.Darley@horsham.gov.uk>
Subject: RE: Wellens Farm - DC/24/1513 -Water Neutrality Report

Hi Hannah

Thanks for the copy of the response from the applicant.

I would like to see a site drawing of the complete rainwater harvesting systems including locations of the rainwater harvesting tank, supply pipes, treatment system, distribution pipework etc.

Reverse osmosis is only proposed for the drinking water point and not the entire house but ultraviolet steriliser unit is also to be installed so it's not clear if the intention is to only have one tap supplied with potable water. Confirmation that that a main supply will be available in the event of drought or system failure should also be provided.

To address these matters I would recommend that the following condition is applied if the application is approved:

Prior to commencement of development of each dwelling 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.
- Details of all matters relevant to the risk assessment and 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 of 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 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 or in the event of system failure.
- Arrangements for keeping written records of all sampling, results of analysis, inspection, cleaning, and maintenance

Have a good weekend

Lee

Lee Money

Team Leader Pollution

Telephone: 01403 215410 | 07879 481032
Email: Lee.Money@horsham.gov.uk

From: Hannah.Darley <Hannah.Darley@horsham.gov.uk>
Sent: 31 January 2025 10:25
To: Lee.Money <Lee.Money@horsham.gov.uk>
Subject: FW: Wellens Farm - DC/24/1513 -Water Neutrality Report

Hi Lee,
The applicant has highlighted that they have supplied some of the information within their report already – is this the correct information we thought was missing that was the basis of the objection or would you still object? I need to know this so I can decide if accepting the further info would overcome the refusal determination.

Thank you and kind regards,

Hannah Darley

Senior Planning Officer

Telephone: 01403 215538

Email: Hannah.Darley@horsham.gov.uk

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Please contact us in advance if your email, including any attachments, is going to exceed 30MB.

From: Dixon Hurst <jethro.s@dhk.co.uk>
Sent: 15 January 2025 09:13
To: Hannah.Darley <Hannah.Darley@horsham.gov.uk>
Cc: olivia@landivar-architects.com>> Olivia Moune <olivia@landivar-architects.com>; rgmoseley@btinternet.com; Geoff Moseley <geoff.moseley@hotmail.co.uk>; Martin Landivar <martin@landivar-architects.com>
Subject: Wellens Farm - DC/24/1513 -Water Neutrality Report

Dear Ms. Darley,

Application No: DC/24/1513

We have been provided with a copy of the comments listed in Red below and request for additional information by the Environmental Health team on the Water Neutrality Report in support of the above planning application as follows:-

The information provided with respect to water neutrality proposes that rainwater harvesting will be used but it is unclear if the each of the proposed dwellings will be independently supplied or if they will share the rainwater harvesting system. The schematic provided indicates that reverse osmosis will be used to treat the water. Further details of the rainwater harvesting proposals should be provided including:

- Detail on the likely contaminants associated with the rainwater harvesting system,
- Detail on what type of treatment that will be installed on the supply
- Details, including a plan or schematic, showing the supply - storage tanks, treatment etc,
- Detail on the continuity of supply during dry periods extending beyond 35 days.

Please find Dixon Hurst Limited response below to your queries outlined above.

1. We can confirm the likely contaminants and treatment process is outline in Section 5.31 (P7) of the report as follows:

Contaminants	**Trament Process**
Dust	Sediment Filter
Bacteria, including Clostridium Prefringers	High dose of UV treatment
Nitrates	Heavy Metal reduction filter
Organics	Carbon Filter

2. The treatment process install on supply is Reverse Osmosis as outlined on pages 48-49 in Appendix F specified by specialist water treatment systems manufactures/consultants, Silver Line UK Limited.

3. A schematic layout showing the preferred water treatment system in indicated in Figure 1 (P8) or in Appendix F (P50) of the report. Further detail of treatment elements and maintenance are given Sections 5.30 – 5.35. A site layout showing separate rainwater harvesting systems for each property is located in Appendix C.

4. The rainwater harvesting and water treatment system that we have proposed is to allow the development to enable total self sufficiency as outlined in Section 5.18- 5.29 of the report. The rainwater harvesting system has the normal capacity of 50 days drought period. Refer to Appendix F for the calculations.

5. We have also allowed for an extra 50 days drought period in you design. Therefore, the mains water will be made available for emergency usage only.

I hope we have addressed all of your queries/concerns raised. We therefore look for to your approval and discharge of the planning condition

Kind Regards
Jethro Sifflet
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DIXON HURST

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