

Hi Chris

Thanks for your patience.

The proposed use of ground water is acceptable provide this is treated to ensure potable supply to the wash-hand Basins and kitchen tap in accordance with the DWI technical guidance. Drinking water will be by mains supply
Supplies to the WC and urinal will require filtration but not treatment.

The analytical results show a low level of fluoride. This is interesting as other sites abstracting through sandstone geology have shown elevated levels of fluoride and this has required use of reverse osmosis treatment systems. The high level of calcium in the sample the water is being abstracted from the chalk. Levels of magnesium and sodium are also high. These high concentrations of minerals may impact the efficiency of the treatment system and this will need to be factored into the design and maintenance of this system of the treatment.

As I have previously advised further details of the treatment system would normally be required by HDC in respect of the following matters before the application would be considered for dtermination:

- i. Detail on what 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.
- ii. 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.
- iii. 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.
- iv. Details, including a plan or schematic, showing the supply – storage tanks, treatment etc, and means to record the total water consumption of each unit
- v. Arrangements for keeping written records of all sampling, results of analysis, inspection, cleaning, and maintenance.

If you are minded to approve the application then these requirements should be made subject to condition prior to occupation of the development.

Regards

Lee