

HOW DO WATER WELLS WORK?

Water Wells are specially constructed boreholes used to provide water for potable and other uses.

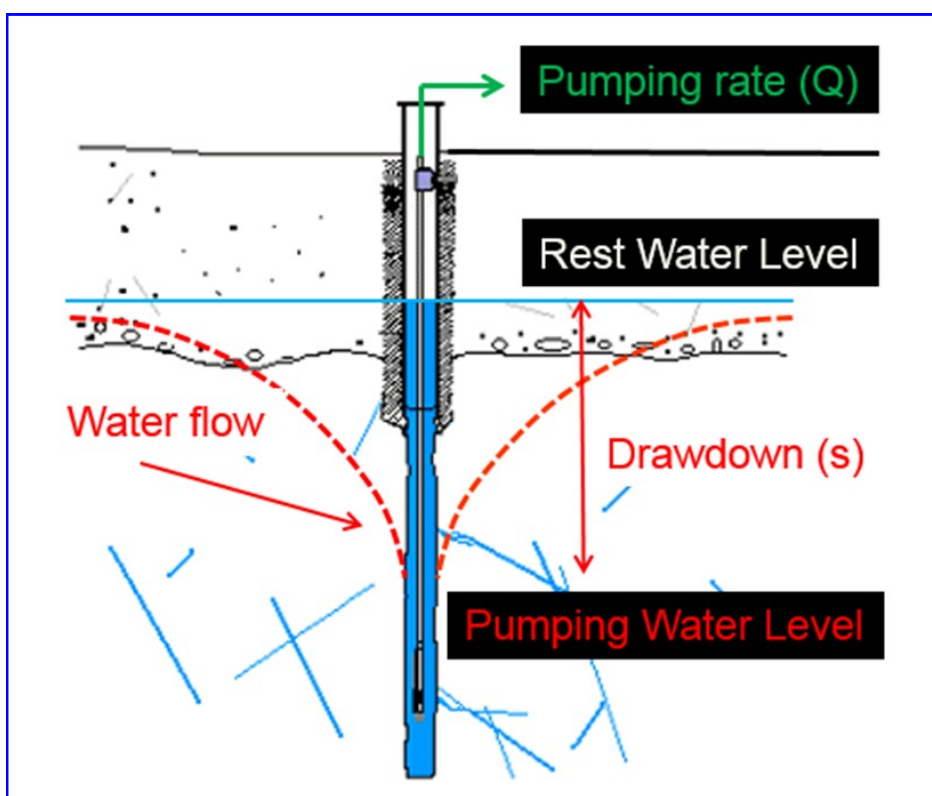
Water Well Hydraulics

It is a popular misconception that Water Wells can be used to 'suck water out of the ground'. This just isn't true! Water can ONLY be pumped out of Water Wells.

The action of pumping results in 'drawdown' and a lowering of the water level inside the Water Well. This creates a hydraulic gradient between the Water Well and the aquifer formation; and a driving head for water to flow into the well.

Why does construction matter?

The way a Water Well is constructed greatly affects the ability for water to flow into the well and therefore the pumping rate that can be practically achieved. Poorly constructed Water Wells can be very low yielding, highly inefficient and expensive to operate as a result. Water Wells can even collapse as a result of the hydraulics that result from poor construction.



Water Well Hydraulics – Water flows into a Water Well as a result of the hydraulic gradient created by pumping

To maximise performance and longevity, Water Wells must be designed, constructed and maintained by trained and experienced professionals with a good understanding of the geology and ground conditions at a given location.

WE ARE HERE TO HELP

Envireau Water specialise in all aspects of borehole design and specification, we will provide you with expert advice from the initial planning stage through to construction, testing and where necessary, abstraction licensing and environmental permitting.

Visit our website for more information.

www.envireauwater.co.uk

