

**In UCD typically we consume approx. 240,000,000 liters of drinking water on the Belfield Campus per year**

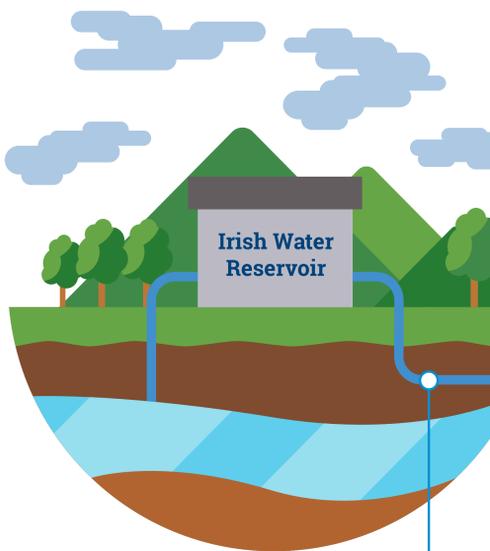
UCD Estate Services is committed to improving our energy and water efficiency - so how does it all work and why does it matter?

**LET'S INVESTIGATE HOW THE KEY STAGES OF HOW BELFIELD'S WATER SYSTEMS WORKS**

On campus, water is used for everyday things like showers, cleaning, swimming, drinking, irrigation & laboratory experiments

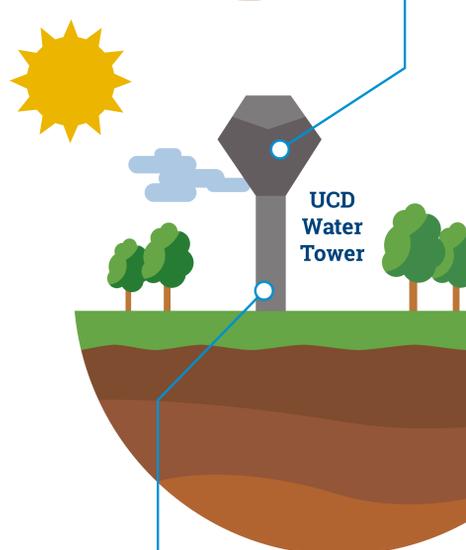
## Source Water

UCD's Belfield and Blackrock campus are supplied by the Roundwood Water Treatment Plant in Co. Wicklow. It was developed by Dublin Corporation in the 1860s and includes two reservoirs, a water treatment plant, a 4km tunnel under Callowhill and 40km of trunk mains that deliver water to storage reservoirs at Irish Water's Stillorgan reservoir facility in Dublin. Which in turn supplies UCD.



## Water Distribution

Finished in 1972, Wejchert's Water Tower is UCD's most renowned Belfield structure, due to its remarkable geometry. This reinforced concrete duodecahedron, supported at its 60m height by a pentagonal stem, can hold 681,818 Litres of water! The Water tower is now a protected structure because it is a prominent skyline feature and is of industrial and technological interest.

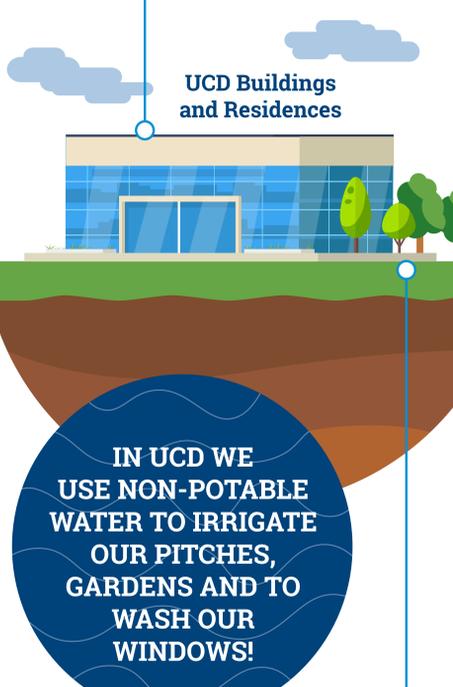


## Consumption

Water consumption on campus is monitored through an extensive arrangement of water meters. Individual building meters, construction site meters and network district meters provide continuous data which helps not only in monitoring consumption, but also in identifying any leaks which may exist on the system.

Over the last 10 years UCD has developed a number of water conservation programmes which have been very successful to date and are found on the UCD Estate Services Website.

A number of distinct programmes including water metering roll out, (we currently have over 150 water meters on the Belfield Campus), mains rehabilitation, improved monitoring and reporting, water conservation and use of alternative non-potable (non-treated) supplies have resulted in a 27% reduction in potable water usage on campus between 2011 and 2019. **This is the equivalent of 35 fills of an Olympic size swimming pool per annum!** This has been achieved during a time of increased growth and construction of the Belfield Campus.



## Wastewater

All foul waste is discharged from the UCD Belfield Campus to the Irish Water Network before ending up at the Ringsend Waste Water Treatment plant, where it is treated before being returned to the environment. Waste pipes take away used water from our toilets, drains, and laundry. Every month 60 tonnes of wet wipes and fibrous litter known as 'ragging' is removed from sewage at the Ringsend wastewater treatment plant alone. That's 720 tonnes of waste per year from only one Treatment plant!



## #Don'tFlush

- Condoms
- Cotton buds
- Wet wipes
- Tampons



**Water management practices also include surface water run-off - providing suitable drainage systems, avoiding flooding or pollution and ensuring water course protection on campus. You may know of two of Belfield's best examples of attenuation features.**

In UCD, the upper lake at the Engineering building and the lake at Woodview House have been created as water attenuation features. This system avoids the necessity for large underground tanks, and has also delivered a significant amenity space in addition to providing ecological benefits to the local wildlife.

[UCD's water and energy policy](#)

[CLICK HERE](#)

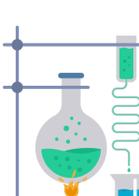
### WHEN ON CAMPUS

### HOW CAN AN INDIVIDUAL MAKE A DIFFERENCE?

### WHEN AT HOME



Report all leaks and running cisterns (Toilet bowls) to UCD Estate Services



Do not leave laboratory experiments unattended unless absolutely necessary



Never let the water run when brushing your teeth



Use your dishwasher for full loads only. A standard dishwasher uses around 9.5 liters of water per wash



Plant a native garden - flowers, grasses, and bushes native to Ireland have adapted to regional rainfall rates, this means they won't require watering!



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